GW - 236

# GENERAL CORRESPONDENCE

YEAR(S): 2002 —> 1995 Czenice Zzz Astron 1900-2000 Hoste Hog

## ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of	f check No dated 2-1-02
or cash received on	in the amount of \$ 1,700.00
from Kate Trucking Co.	
for Hobbs Service Facilis	Fg 4W-236.
Submitted by:	Date: 2-7-02
Submitted to ASD by:	Date:
Received in ASD by:	Date:
Filing Fee New Faci	lity Renewal
Modification Other	
Organization Code 521.07  To be deposited in the Water Qu	
Full Payment or Ann	

	Full	Payment	or A	nnual Inc	ement	
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	NG CO., INC. • 505-397-6264 88241-2739			Bank of Americ Hobbs, New Medica 81 95-321/1122		ing a
	Anni de Marie					
		7.10	TIM		DATE	AMOUNT
One Th	ousand Sev	en Hundred a	nd 00/100	Dollars	eb I., 2002	***\$1,700.00
		ALITY MANAGE ION DIVISION			PATE TRUCKING CO	INCPAYROLL
122 SAN	O SOUTH ST	FRANCIS DR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Jorey M. AUTHORIZED	Ce
A PIL						

# Check Date: Feb 1, 2002

Nº 22424

Item to be Paid - Description DISCHARGE PLAN GW-236

PATE TRUCKING CO., INC.

Check Amount: \$1,700.00

Discount Taken Amount Paid

1,700.00



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

January 10, 2002

Lori Wrotenbery
Director
Oil Conservation Division

## CERTIFIED MAIL RETURN RECEIPT NO. 3929 7358

Mr. Gary Ehrlich
Pate Trucking Co., Inc.
P.O. Box 2739
Hobbs, New Mexico 88241

RE: Discharge Plan Fees GW-236

Hobbs Serivce Facility Lea County, New Mexico

Dear Mr. Ehrlich:

On July 8, 2001, Pate Trucking Co., Inc., received, via certified mail, an approval dated July 3, 2001 from the New Mexico Oil Conservation Division (OCD) for discharge plan GW-236. Each discharge plan has a filing fee and a flat fee as described in WQCC Section 3114. The OCD has not as of this date (January 10, 2002) received the flat fee. The last check submitted by Pate Trucking Co., Inc. was dated May 10, 2001 for the required filing fee. The total flat fee amount remaining is \$1,700.00 for discharge plan GW-236.

Pate Trucking Co., Inc. will submit the remaining \$1,700.00 flat fee in full by February 28, 2002 in order to be in compliance with Water Quality Control Commission Regulation 3114.B.6, or the OCD may initiate enforcement actions which may include fines and/or an order to cease all operations at the facility. Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

If you have any questions regarding this matter, please contact Mr. Jack Ford at (505) 476-3489.

Sincerely,

Roger Anderson

Environmental Bureau Chief

RCA/wif

xc: Hobbs OCD district office

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NEW MEXICO OIL CONSERVATION DIVISION

ATTN: ED MARTIN 2040 S. PACHECO SANTA FE, NM 87505

AD NUMBER: 207186 LEGAL NO: 69249 ACCOUNT: 56689

P.O.#: 01199000033

178 LINES 1 t

1 time(s) at \$ 78.47

AFFIDAVITS:

5.25

AFFIDAVIT OF PUBLICATION

TAX: TOTAL:

STATE OF NEW MEXICO

5.23 88.95

NOTICE OF. PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RE-SOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-236) - Pate Trucking Co., Inc., Mr. Gary Ehrlich, P.O. Box 2739, Hobbs, New Mexico 88241, has submitted a Mexico discharge plan renewal application for their Hobbs Service Facility located in the NW/4 SW/4, Section 14, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico. Any planned dis-charged or incidental wastes at the facility will be stored in a closed top receptacle prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of 55 feet with a total dissolved solids of 170 approximately approximately 270 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be man-

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday, Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the plan pased on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing:

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 15th day of May, 2001.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY, Director Legal #69249 Pub. May 21, 2001

COUNTY OF SANTA FE I, MM Weldeman being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #69249 a copy of which is hereto attached was published in said newspaper 1 day(s) between 05/21/2001 and 05/21/2001 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 21 day of May, 2001 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

151_ MMWedenan
LEGAL ADVERTISEMENT REPRESENTATIVE
Subscribed and sworn to before me on this 21-day of May A.D., 2001
Notary Laura 2. Anding
Commission Expires

MAY 2 5 2001

#### AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

#### I, KATHI BEARDEN

Publisher
of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.
of1
weeks.
Beginning with the issue dated
May 18 2001
and ending with the issue dated
May 18 2001
Atthi Bearder
Publisher Sworn and subscribed to before
me this 18th day of
May 2001  Soli Genson
Notary Public.

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

My Commission expires

October 18, 2004

(Seal)

# NOTICE OF PUBLICATION May 18, 2001 STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing.

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 15th day of May, 2001.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

SEAL LORI WROTENBERY, Director #18187

> 01100060000 01548386 State of New Mexico Oil & 1220 S. St. Francis Santa Fe, NM 87505

#### Ford, Jack

From:

Martin, Ed

Sent:

Tuesday, May 15, 2001 12:46 PM

To:

'Hobbs News-Sun Attn: Brenda Tison'; 'Santa Fe New Mexican'

Cc:

Ford, Jack

Subject:

FW: Public Notice - GW-236

Please publish the attached legal notice one time only.

Upon publication please send to this office:

- 1. Publisher's affidavit
- 2. Invoice. Our purchase order number is:

Hobbs News-Sun

01199008196

Santa Fe New Mexican

01199000033

Please publish no later than Monday, May 21, 2001.

If you have any questions, please e-mail me or call (505) 476-3492.

Thank you.

----Original Message-----

From:

Ford, Jack

Sent:

Tuesday, May 15, 2001 8:14 AM

To:

Martin, Ed

Subject:

Public Notice - GW-236



236pub.doc

#### NOTICE OF PUBLICATION

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 15th day of May, 2001.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORÍ WROTENBERY, Director

SEAL

P. O. Box 2739 3800 S. Eunice Highway 505-397-6264 800-657-9353 Fax 505-397-2597 Hobbs, New Mexico 88241

May 11, 2001

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Attn: Mr. Jack Ford

RE: GW-236 Discharge Plan Renewal Request/Application

Dear Mr. Ford,

Pate Trucking Co., Inc./ NM Operations would like to take this time to thank you for your help and guidance in regards to the Discharge Plan Renewal Request/Application for our facility. We have filled all information in accordingly, per your conversation with Mr. Allen Hodge, Western Environmental Consultants. The check for the \$100.00 filing fee required by the State of New Mexico is enclosed and we have sent a copy to the District I Office, located 1625 N. French Dr., Hobbs, NM 88240. If there is any question or you need additional information please contact us at 505-397-6264 or 800-657-9353.

Sincerely,

Gary Ehrlich

General Manager

Don Chi

Pate Trucking Co., Inc./ NM Operations

Cc: District I Office, Hobbs, NM

enclosure

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

Revised January 24, 2001

# DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

	(Refer to the OCD Guidelines for assistance in completing the application)
	☐ New ☐ Renewal ☐ Modification
١.	Type: GW-236
2.	Operator: Pate Trucking Co., INC.
	Address: 3800 S. Eurice Hwy / P.O. Box 2739 Hobbs, NM 88241
	Contact Person: GARY MeAD Phone: 505-394-6264
3.	Location: // /4 Section /4 Township 195 Range 388 Submit large scale topographic map showing exact location.
4.	Attach the name, telephone number and address of the landowner of the facility site.
5.	No Change Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.  No Change
6.	Attach a description of all materials stored or used at the facility.  No Change
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems.  No Chause
10.	Attach a routine inspection and maintenance plan to ensure permit compliance.  No Charace
11.	Attach a contingency plan for reporting and clean-up of spills or releases.
12.	No Change Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
	14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Siney Emplicy Title: Mg
	Name: Signature: Say Euro Date: 05-05-01

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

Revised January 24, 2001

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3.	Location: NW /4 Sw /4 Section W Township 95 Range 388 Submit large scale topographic map showing exact location.
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_	No Change
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-	No Change
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	No Chauge
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,	No Change
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	No Chauge
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	14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the
	best of my knowledge and belief.
	Name: Grang Shrhich Title: Mgn
	Name: Grand Shrhich Title: Mgn  Signature: Date: 05-05-01

## ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 5/10/01
or cash received on
from Pate Trucking Co.  for Hobbs Service Facility  Gui-256
for Hobbs Service Facility GW-236.
Submitted by:
The state of the s
LIST BY
Received in ASD by:Date:
Filing Fee New Facility Renewal
ModificationOther
(spensy)
Organization Code 521.07 Applicable FY 2001
To be deposited in the Water Quality Management Fund.
Full Payment or Annual Increment

PATE TRUCKING CO., INC. P.O. BOX 2739 505-397-6264 HOBBS, NM 88241-2739 Bank of America Hobbs, New Mexico 88241 95-321/1122

Check Number:

May 10, 2001

\*\*\*\*\*\*\*\*\$100.00\*

DATE

AMOUNT

One Hundred and 0/100 Dollars

PAY TO THE ORDER OF: NMED-WATER QUALITY MANAGEMENT OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. SANTA FE, NM 87505 USA

PATE TRUCKING CO., INC. - ACCOUNTS PAYABLE

AUTHORIZED SIGNATURE

NMED-WATER QUALITY MANAGEMENT

GW-236 DISCHARGE PLAN RENEWAL

Item to be Paid - Description

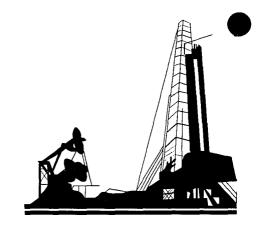
FILING FEE

Check\_Number: 17628 Date: May 10, 2001

Check Amount: \$100.00

Discount Taken Amount Paid 100.00

pate trucking co., inc.



#### TRANSMITTAL COVER SHEET

OIL CONSERVATION DIVISION 1220 S. ST. FRANCIS DRIVE SANTA FE, NM 87505 (505) 476-3440 (505)476-3462 (Fax)

PLEASE DELI	IVER THIS FAX:	
TO:	Gary Ehrlich - Pate True	Lingle
FROM:	W. J. FORD - NMOCD	,
DATE:	May 8, 2001	
PAGES:	3	
SUBJECT:	Distrarge Plan GW-236	
Exp	piry	
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IF YOU HAVE TROUBLE RECEIVING THIS FAX, PLEASE CALL THE OFFICE NUMBER ABOVE.

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Signed			

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### NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

April 30, 2001

Lori Wrotenbery
Director
Oil Conservation Division

#### REMINDER

Mr. Gary Mead Pate Trucking Co., Inc. P.O. Box 1008 Hobbs, New Mexico 88241

2139



RE: Discharge Plan Renewal Notice for the Pate Trucking Co., Inc. Facility

Dear Mr. Mead:

Pate Trucking Co., Inc. has the following discharge plan, which expires during the current calendar year.

#### GW-236 expires 5/23/2001 – Hobbs Facility

<u>WQCC 3106.F.</u> If the holder of an approved discharge plan submits an application for discharge plan renewal at least 120 days before the discharge plan expires, and the discharger is not in violation of the approved discharge plan on the date of its expiration, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. A discharge plan continued

under this provision remains fully effective and enforceable. An application for discharge plan renewal must include and adequately address all of the information necessary for evaluation of a new discharge plan. Previously submitted materials may be included by reference provided they are current, readily available to the secretary and sufficiently identified to be retrieved. [12-1-95]

The discharge plan renewal application for each of the above facilities is subject to WQCC Regulation 20NMAC 6.2.3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$100.00. After January 15, 2001 renewal discharge plans require a flat fee equal to the flat fee schedule for oil field service facilities pursuant to revised WQCC Regulations 20NMAC 6.2.3114. A copy of the revised fee schedule is included for your assistance. The \$100.00 filing fee is to be submitted with each discharge plan renewal application and is nonrefundable.

Mr. Gary Mead February 9, 2001 Page 2

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office. Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Hobbs District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** A complete copy of the regulations is also available on NMED's website at **www.nmenv.state.nm.us**).

If any of the above-sited facilities no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If the Pate Trucking Co., Inc. has any questions, please do not hesitate to contact Mr. Jack Ford at (505) 476-3489.

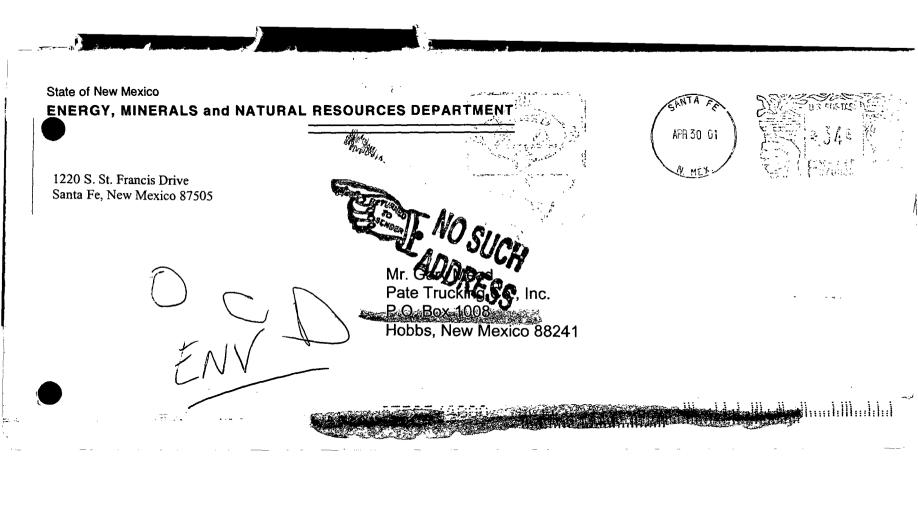
Sincerely,

W. Jack Ford, C.P.G.

Oil Conservation Division

cc:

OCD Hobbs District Office





# NEW IEXICO ENERGY, MERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

April 30, 2001

Lori Wrotenbery
Director
Oil Conservation Division

#### REMINDER

Mr. Gary Mead Pate Trucking Co., Inc. P.O. Box 1008 Hobbs, New Mexico 88241

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Sincerely,

W. Jack Ford, C.P.G.

Oil Conservation Division

cc: OCD Hobbs District Office



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSO Governor Jennifer A. Salisbury Cabinet Secretary

February 9, 2001

Lori Wrotenbery
Director
Oil Conservation Division

## CERTIFIED MAIL RETURN RECEIPT NO. 5051 0111

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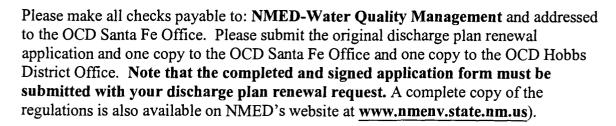
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**WQCC 3106.F.** If the holder of an approved discharge plan submits an application for discharge plan renewal at least 120 days before the discharge plan expires, and the discharger is not in violation of the approved discharge plan on the date of its expiration, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. A discharge plan continued

under this provision remains fully effective and enforceable. An application for discharge plan renewal must include and adequately address all of the information necessary for evaluation of a new discharge plan. Previously submitted materials may be included by reference provided they are current, readily available to the secretary and sufficiently identified to be retrieved. [12-1-95]

The discharge plan renewal application for each of the above facilities is subject to WQCC Regulation 20NMAC 6.2.3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$100.00. After January 15, 2001 renewal discharge plans require a flat fee equal to the flat fee schedule for oil field service facilities pursuant to revised WQCC Regulations 20NMAC 6.2.3114. A copy of the revised fee schedule is included for your assistance. The \$100.00 filing fee is to be submitted with each discharge plan renewal application and is nonrefundable.

Mr. Gary Mead February 9, 2001 Page 2



If any of the above-sited facilities no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If the Pate Trucking Co., Inc. has any questions, please do not hesitate to contact Mr. Jack Ford at (505) 476-3489.

Sincerely,

Roger C. Anderson

Oil Conservation Division

cc: OCD Hobbs District Office

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OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

April 14, 1998

## CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-944

Mr. Gary Mead President Pate Trucking Co., Inc. P.O. Box 1008 Hobbs, NM 88241

RE: Final Report for Leach Field Closure

(2 Class V Wells)

Hobbs Facility - GW-236 Lea County, New Mexico

Dear Mr. Mead:

The OCD has reviewed the above referenced Final Report submitted by your consultant, Western Environmental Consultants, received March 19, 1998. The Final Report covered the results of completion of a work plan submitted and approved by OCD for closure of two (2) class V leach field systems that were inactive at the facility located in the NW/4 NW/4 SW/4, Section 14, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico.

Based upon the information provided in the Final Report OCD hereby approves the closure of the two (2) Class V wells. Please be advised that the approval of this closure does not relieve Pate Trucking Co. of liability for the protection of the vadose zone and groundwater associated with this facility.

If you have any questions regarding this matter feel free to give me a call at (505)-827-7156.

Sincerely,

W. Jack Ford, C.P.G.

Geologist

Environmental Bureau - OCD

cc: Mr. Allen Hodge, REM, Western Environmental Consultants

Mr. Wayne Price, Environmental Engineer - OCD Hobbs District I

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#### ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASE

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|                       | I hereby acknowledge receipt                                                                                                                                                  |                                                                                     | ited $\frac{7/7/97}{}$ , |
|                       |                                                                                                                                                                               | in the amount of                                                                    | 1104.00                  |
|                       | from Pale Trucks                                                                                                                                                              | ne                                                                                  |                          |
|                       | for Hobbs                                                                                                                                                                     | GW                                                                                  | -236                     |
|                       | Submitted by:                                                                                                                                                                 | Date:                                                                               | Maj                      |
|                       | Submitted to ASD by:                                                                                                                                                          | Under Date: 7                                                                       | /31/47                   |
|                       | Received in ASD by:                                                                                                                                                           | Date:                                                                               |                          |
|                       | Filing Fee New Fa                                                                                                                                                             | cility Renewal                                                                      | _                        |
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| O. BOX 100            | KING CO., INC.  98 505-397-6264                                                                                                                                               | SUNWEST BANK Hobbs, NM 88241                                                        | *****\$1,104.00          |
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Item to be Paid - Description

Check Number: 4751

Check Amount: \$1,104.00 Discount Taken Amount Paid

FEE DISCHARGE PLAN GW-236 GW-236

1,104.00

PATE TRUCKING CO., INC.

NMED WATER QUALITY MGT FUND

Item to be Paid - Description

Check Number:

4751

Check Date:

Jul 7, 1997

Check Amount: \$1,104.00

Discount Taken

Amount Paid

FEE DISCHARGE PLAN GW-236

1,104.00

PATE TRUCKING CO., INC.

PATE TRUCKING CO., INC.

P.O. BOX 1008 505-397-6264 HOBBS, NM 88241

SUNWEST BANK

Hebbs, NM 88241 95-321/1122

Jul 7, 1997

\*\*\*\*\*\$1,104.00\*

DATE

**AMOUNT** 

One Thousand One Hundred Four and O/100 Dollars

ΑY OTHE RDER NMED WATER QUALITY MGT FUND C/O NM OIL CONSERVATION DIV 2040 SOUTH PACHECO SANTA FE, NM 87505 USA

PATE TRUCKING CO., INC. - ACCOUNTS PAYABLE

AUTHORIZED SIGNATURE

JUL 24 1997

Environmental Bureau Oil Conservation Division

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe. New Mexico 87505 (505) 827-7131

June 30, 1997

#### **CERTIFIED MAIL** RETURN RECEIPT NO. P-326-936-629

Mr. David Cummings General Manager Pate Trucking Co., Inc. (PTC) P.O. Box 1008 Hobbs, NM 88241

RE:

Discharge Plan Fees GW-236

**Hobbs Facility** 

Lea County, New Mexico

Dear Mr. Cummings:

On June 4, 1996, PTC, Inc. received, via certified mail, an approval dated May 23, 1996 from the New Mexico Oil Conservation Division (OCD) for discharge plan GW-236. Each discharge plan has a filing fee and a flat fee as described in WQCC Section 3114 (see attachment). The OCD has not as of this date (June 30, 1997) received the annual incremental amount of \$276. The last check submitted by PTC, Inc. was dated June 14, 1996. The total flat fee amount remaining is \$1,104 of the original \$1,380 flat fee for discharge plan GW-236.

PTC. Inc. will submit the remaining \$1,104 flat fee in full by July 30, 1997 in order to be in compliance with Water Quality Control Commission Regulation 3114.B.6, or the OCD may initiate enforcement actions which may include fines and/or an order to cease all operations at the facility. Please make all checks payable to: NMED-Water Quality Management and addressed to the OCD Santa Fe Office.

If you have any questions regarding this matter, please contact me at (505)-827-7152 or Mr. Patricio Sanchez at (505) 827-7156.

Sincerely,

Roger Anderson

Environmental Bureau Chief

RCA/pws

Hobbs OCD District Office

attachment

#### P 326 936 629

|            | US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See rev |           |  |  |  |  |
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#### 3114. FEES.

- A. DEFINITIONS. As used in this Section:
- 1. "average discharge" means the average daily flow rate of effluent discharge as measured or estimated over the period of one year; [8-17-91]
- 2. "billable facility" means any facility or portion of a facility required to have a discharge plan; and [8-17-91]
- 3. "discharge plan modification" means a change in requirements of a discharge plan as requested by the discharger as a result of past, present or anticipated changes in the quality or quantity of effluent or the location of the discharge; or as required by the secretary. [8-17-91]
- B. FEE AMOUNT AND SCHEDULE OF PAYMENT Every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this Section to the Water Quality Management Fund. [8-17-91]
- 1. The amount of the fee payment for a new discharge plan shall be calculated using the following formula:

20 NMAC 6.2

1995 CCT 27 PM 1: 26

#### TOTAL FEE = FILING FEE + FLAT FEE or DISCHARGE FEE

a. The filing fee is fifty (50) dollars for each new discharge plan application.

b. Billable facilities in the following categories applying for a new discharge plan will pay a flat fee as indicated:

#### FLAT FEE

| Facility Category                      | Flat  | Fee     |
|----------------------------------------|-------|---------|
| Fuel Terminals Gas Compressor Stations |       | \$ 2300 |
| 0 to 1000 Horsepower                   |       | 0       |
| 1001 to 3000 Horsepower                |       | 690     |
| Greater than 3000 Horsepower           |       | 1380    |
| Gas Processing Plants                  |       | 3335    |
| Injection Wells: Classes I & III       |       | 1380    |
| and Geothermal                         |       |         |
| In Situ Leach - except salt            |       | 3335    |
| Leach Heaps - copper                   |       | 3335    |
| Leach Heaps - precious metals          |       | 3510    |
| Mine Dewatering                        |       | 1065    |
| Oil & Gas Service Companies imenci     |       | 1380    |
| Refineries                             |       | 7820    |
| Remediations - discharge planeonly     |       | 1380    |
| Tailings - copper, uranium & molybd    | enum  | 4860    |
| Uranium - ion exchange & evaporatio    | n por | nd 1210 |

c. All billable facilities applying for a new discharge plan but which are not subject to a flat fee will pay the following fees according to their rate of effluent discharge:

#### DISCHARGE FEE

| Avera           | ge Di | .scharge        |     |      |
|-----------------|-------|-----------------|-----|------|
| Gallons per Day |       |                 | Fee |      |
| 0               | to    | 9,999           | \$  | 575  |
| 10,000          | to    | 49,999          |     | 1150 |
| 50,000          | to    | 99,999          |     | 1725 |
| 100,000         | to    | 499,999         |     | 2300 |
| 500,000         | to    | 999,99 <b>9</b> |     | 2875 |
| 1,000,000       | to    | 4,999,999       |     | 3450 |
| 5,000,000       | to    | 9,999,999       |     | 4025 |
| 10,000,000      | and   | greater         |     | 4600 |
| [8-17-91]       |       | _               |     |      |

2. Billable facilities applying for discharge plans

which are subsequently withdrawn or denied shall pay one-half of the flat fee or discharge fee at the time of denial or withdrawal. [8-17-91]

- 3. Every billable facility submitting a discharge plan modification or renewal will be assessed a fee equal to the filing fee plus one-half of the flat fee or the discharge fee, whichever is applicable. Applications for both renewal and a modification will pay a fee equal to that assessed a new discharge plan application. [8-17-91]
- 4. If the secretary requires a discharge plan modification as a component of an enforcement action, the facility shall pay the applicable discharge plan modification fee. If the secretary requires a discharge plan modification outside the context of an enforcement action, the facility shall not be assessed a fee. [8-17-91, 12-1-95]
- 5. The secretary may waive flat fees or discharge fees for discharge plan modifications which require little or no cost for investigation or issuance. [8-17-91, 12-1-95]
- 6. Billable facilities shall pay the filing fee at the time of discharge plan application. The filing fee is nonrefundable. The required flat fees or discharge fees may be paid in a single payment or in equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due on the date of discharge plan approval. The discharge plan or discharge plan application review of any facility shall be suspended or terminated if the facility fails to submit an installment payment by its due date. [8-17-91]

[3115-4100] Reserved



February 17, 1997

## CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-768

Mr. David Cummings General Manager Pate Trucking Co., Inc. P.O. Box 1008 Hobbs, NM 88241

RE: Work Plan for Leach Field Closure (2 Class V Wells) Hobbs Facility - GW-236

Lea County, New Mexico

Dear Mr. Cummings:

The OCD has reviewed the above mentioned work plan submitted by Pate Trucking Co., Inc. on January 30, 1997. The work plan is for two (2) class V leach field systems that are currently inactive at the facility located in the NW/4 NW/4 SW/4, Section 14, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico. The work plan is hereby approved with the following conditions:

- 1. The OCD Hobbs District Office at (505)-393-6161, Mr. Wayne Price will be notified at least 72 hours before any of the actual closure activity begins at the facility.
- 2. If any of the wastes generated during the excavation/delineation are Hazardous in terms of RCRA Subtitle C Regulations as defined in 40 CFR Part 261, Pate Trucking Co., Inc. will notify the New Mexico Environment Department, Hazardous and Radioactive Materials Bureau at (505)-827-1558 for guidance in dealing with hazardous waste.
- 3. Upon completion of the excavation/delineation of the two leach fields, Pate Trucking Co., Inc. will fill the excavation with clean soil and mound the soil in such a manner as to prevent ponding of precipitation on the affected area.
- 4. Pate Trucking Co., Inc. upon completion of the approved work plan and conditions of approval will submit a "Final Closure Report" for the two (2) leach systems to the OCD Santa Fe Division Office for approval, with a copy to the OCD Hobbs District Office, within sixty (60) days of completion.

Note: The "Final Closure Report" will verify that all of work plan elements and the conditions of approval of this letter have been met. Also, the copy of the report that is sent to Santa Fe will include original copies of the lab analytical work along with proper lab QA/QC.

Mr. David Cummings
Pate Trucking Co., Inc.
Class V Work Plan Approval
February 17, 1997
Page 2

Please be advised that the approval of this plan does not relieve **Pate Trucking Co.** of liability should the work plan fail to fully delineate/remediate the vadose zone and groundwater associated with this facility.

If you have any questions regarding this matter feel free to give me a call at (505)-827-7156.

Sincerely,

Patricio W. Sanchez

Petroleum Engineering Specialist Environmental Bureau - OCD

c: Mr. Wayne Price Environmental Engineer - OCD Hobbs District I Mr. Allen Hodge, REM
Western Environmental Consultants
P.O. Box 1816
Hobbs, NM 88241

#### P 288 258 768

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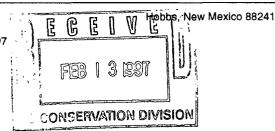
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### Pate Trucking Co., Inc. **New Mexico Operations**

P. O. Box 1008 3800 S. Eunice Highway

800-657-9353 Fax 505-397-2597



**JANUARY 30, 1997** 

TO:

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPT

**OIL CONSERVATION DIVISION3** 2040 SOUTH PACHECO STREET

**SANTA FE, NM 87505** 

ATTN:

PAT SANCHEZ

FROM:

PATE TRUCKING CO., INC.

P.O. BOX 1008

3800 SOUTH EUNICE HWY.

HOBBS, NM 88240

DEVINED.

FEB 1 3 1996

Environmantal Bureau Cil Conservation Division

DEAR MR. SANCHEZ,

PLEASE FIND ENCLOSED A COPY OF OUR WORK PLAN THAT YOU HAVE REQUESTED SO THAT WE MAY CLOSE THE TWO (2) EPA CLASS V LEACH FIELDS LOCATED AT PATE TRUCKING CO., INC., 3800 SOUTH EUNICE HWY, HOBBS, NM 88240. THE ENCLOSED WORK PLAN WAS PREPARED BY WESTERN ENVIRONMENTAL CONSULTANTS FOR ME, DAVID CUMMINGS, GENERAL MANAGER, PATE TRUCKING CO., INC. THANK YOU FOR YOUR ASSISTANCE IN THIS MATTER.

SINCERELY.

DAVID CUMMINGS GENERAL MANAGER

David Cummings

PATE TRUCKING CO., INC.



P.O. Box 1816 Hobbs, New Mexico 88241 Phone (505) 392-5021 Fax (505) 397-2597

January 8, 1997

PECCU/ED

FEB 1 3 1996

Environmenta, Bureau Oil Conservation Division

Mr. David Cummings District Manager

Pate Trucking Company 3800 South Eunice Hwy. PO Box 1008 Hobbs, New Mexico 88241

RE:

Work Plan for Leach Field Closure

Pate Trucking Facility 3800 S. Eunice Hwy. Hobbs. New Mexico

Mr. Cummings:

Western Environmental Consultants (WEC) is pleased to present this work plan to close the two inactive leach fields (Class V injection wells) at the above listed site. The work plan was developed to close the leach fields in accordance with New Mexico Oil Conservation Division (NMOCD) Unlined Surface Impoundment Closure Guides as specified in the NMOCD's Discharge Plan Requirement Inspection letter, dated September 20, 1995. It is our understanding that any potential contamination of the leach field was the result of activities associated with the operation of an oil field service company that previously occupied the site. The two leach fields were abandoned prior to and have not been used since Pate Trucking Company took over the facility in September 1995.

The potential contaminates of concern are expected to be low level concentrations of petroleum hydrocarbons and possibly metals that may have been discharged into the leach fields and absorbed by the surrounding soils.

The NMOCD regulates disposal of non-domestic wastes resulting from the oil field service industry. In addition, the NMOCD administers all Water Quality Act regulations pertaining to surface and ground water except sewage for the oil field service industry. This authority includes the disposition of non-domestic, non-hazardous wastes at oil field facilities.

#### **Scope of Work**

1 Excavate the leach fields and any near surface soils containing any observed potential contamination. Since the leach field lines (potential contaminate source) were buried approximately two (2) feet below ground surface and any effluent discharged would have migrated downward the potential impacted area is expected to be limited to the near surface soils. Initial excavation operations will consist of removing the field lines and soils to a depth of approximately three (3) feet (one foot below the bottom of the field lines) to minimize the volume of waste generated (estimated waste volume is approximately 24 cubic yards). The excavated soils will be stockpiled at an on-site location pending waste characterization and disposal. The soils will be staged on and covered with plastic to prevent the potential spread of contamination.

- 2 Collect four (4) soil samples of the excavated area for Total Petroleum Hydrocarbons (TPH) analysis to verify that the remaining surface soils at the site are below NMOCD clean up guidelines for TPH levels for spills/releases. Should the TPH concentrations in the remaining soils exceed NMOCD levels, an additional 6-inch layer of soil will be removed and stockpiled.
- 3 Collect a composite sample of the excavated material for laboratory analysis. The purpose of the composite sample is to characterize the excavated material for waste classification in accordance with RCRA Subtitle C regulations. The sample will be analyzed for TPH, volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), eight RCRA metals, and solid waste characteristics (ignitability, corrositivity, reactivity, and toxicity).
- 4 Should the analytical results from the sample of excavated material record levels of individual compounds that exceed EPA maximum concentration levels (MCL) for toxicity characteristics, a sampling plan to verify the soils remaining in the excavated area are below MCL levels will be developed. This plan will include the collection of a minimum of two (2) soil samples from randomly selected locations with in the excavated area. In order to minimize costs, the samples will be analyzed for only compounds that exceeded MCL levels.
- 5 Should the analytical results record individual compound concentrations below EPA listed MCL, the tested materials will be considered a non-hazardous waste generated at an oil field facility. The materials will be transported to a NMOCD permitted commercial waste disposal facility. Each load of material will be accompanied by a manifest in accordance with Section 711 of the New Mexico Solid Waste Management Regulations.

#### **Estimated Cost**

| <u>ite</u> | m Description                                                                                                                                               |                                                            |         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------|
| 1          | Excavate and stage material using a backhoe (24 cubic yards)                                                                                                | Backhoe @ 39.90/hr<br>Est. 20/hr                           | 798.00  |
| 2          | Labor to assist excavation and staging.                                                                                                                     | Environmental Field<br>Technician @<br>32.50/hr Est. 20/hr | 650.00  |
| 3          | Sample excavated area for TPH (12 Samples). Sample excavated material for TPH (4 Samples).                                                                  | 45.00 per sample<br>Est. 16 total                          | 720.00  |
| 4          | Sample excavated material for TCLP VOC, SVOC, metals, and characteristics (includes sampling, chain-of-custody, and laboratory analysis of 2 soil samples). | 1150.00 per sample<br>two samples                          | 2300.00 |
| 5          | Plastic to stage excavated material on.                                                                                                                     | 90.00 per roll two rolls                                   | 180.00  |
| 6          | Transport 24 cubic yards to the<br>Parabo Disposal Facility (6 yard dump<br>truck and backhoe.                                                              | 39.90/hr 2/hr.per load<br>Est. 4 loads                     | 319.20  |

| 7 Disposal fees.             | 14.00/cyd<br>cyds | Est. | 24 | 336.00  |
|------------------------------|-------------------|------|----|---------|
| Estimated cost               |                   |      |    | 5303.20 |
| New Mexico Gross Receipt Tax |                   |      |    | 318.19  |
| Total Estimated Cost         |                   |      |    | 5621.39 |

The above costs assume the waste is non-hazardous and the total volume of material is 24 cubic yards. Any services performed outside the scope of work will be billed at the above listed rates. We estimate the scope of work will take approximately 3 weeks to complete (24 hours on site work, approximately 15 days to receive analytical results, 4 days to obtain approval from NMOCD, and 1 day to dispose of excavated material).

Should excavation operations identify any additional concerns outside the scope of work, an approval from a representative of Pate Trucking Company will be obtained prior to performing any additional services

Western Environmental Consultants appreciates this opportunity to provide you with our professional services. Please feel free to call us at any time for further information or questions you may have with regards to our work plan.

Respectfully,

Western Environmental Consultants

Allen Hodge REM VP Operations

cc: Mr. Patricio W. Sanchez - OCD Environmental Bureau

Mr. Wayne Price - OCD Hobbs District 1

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

November 22, 1996

## CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-704

Mr. Gary Reid Pate Trucking Co. P.O. BOX 639 Hobbs, NM 88241

RE: Discharge Plan GW-236

NOD - Class V Investigation

**Hobbs Facility** 

Lea County, New Mexico

Dear Mr. Reid:

The discharge plan GW-236 for the Pate Trucking Co. Hobbs facility located in the NW/4 NW/4 SW/4, Section 14, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico, was approved on May 23, 1996 under the conditions contained in the enclosed attachment. The OCD has yet to receive the work plan as described as committed to by Pate Trucking Co. in the permit update from Pate Trucking Co. dated May 21, 1996. The update was part of permit condition number 2 of the approval letter dated May 23, 1996. Please submit a work plan by January 10, 1997 to the OCD Santa Fe Division Office in duplicate, with a copy to the attention of Mr. Wayne Price at the OCD Hobbs District Office.

The discharge plan application was submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission Regulations. Please note Sections 3109.E and 3109.F which provide for possible future amendments or modifications of the plan. Please be advised that the approval of this plan did not relieve **Pate Trucking Co.** of liability should the operations associated with this facility result in pollution of surface water, ground water, or the environment.

Sincerely,

Patricio W. Sanchez

Petroleum Engineering Specialist

Environmental Bureau - OCD

(505)-827-7156

Attachment - Permit Conditions dated May 23, 1996.

xc: Mr. Wayne Price - OCD Hobbs District I

#### P 288 258 704

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| PS Form 3800, April 1995 | Postmark or Date                                                                                                                                     | -                                          |

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Mr. Gary Reid GW-236 Approval Pate Trucking Co. Page 3 May 23, 1996

# ATTACHMENT TO DISCHARGE PLAN GW-236 Pate Trucking Co. - Hobbs Facility DISCHARGE PLAN REQUIREMENTS (May 23, 1996)

- 1. Payment of Discharge Plan Fees: The \$1,380 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.
- 2. Pate Trucking Co. Commitments: Pate Trucking Co. will abide by all commitments submitted in the Application dated February 7, 1996 and the permit update dated on May 21, 1996 from Pate Trucking Co. and this approval letter with conditions of approval from OCD dated May 23, 1996.
- 3. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad and curb type containment. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets should also be stored on an impermeable pad and curb type containment.
- 4. <u>Process Areas</u>: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
- 5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad.
- 6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 7. <u>Tank Labeling</u>: All tanks should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

Mr. Gary Reid GW-236 Approval Pate Trucking Co. Page 4 May 23, 1996

- 8. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks that do not have secondary containment and leak detection must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks /or sumps.
- 9. <u>Underground Process/Wastewater Lines</u>: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years there after. Companies may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD.
- 10. **Housekeeping**: All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.

Any contaminated soils that are collected at the facility will be tested for hazardous constituents, and after receiving OCD approval, will be disposed of at an OCD approved site.

- 11. <u>Spill Reporting</u>: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the Hobbs OCD District Office at (505)-393-6161.
- 12. **Transfer of Discharge Plan:** The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
- 13. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

14. Conditions accepted by:

Company Representative

Date

Title

#### ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

| I hereby acknowledge receipt of check No dateddated   |
|-------------------------------------------------------|
| or cash received on in the amount of \$ 276.00        |
| from Tate Trucking                                    |
| for Hobbs ) Gw-236                                    |
| Submitted by: o date:                                 |
| Submitted to ASD by: R. Charles Date: 6/21/96         |
| Received in ASD by: Wino Sa Cara Date: 4-21-96        |
| Filing Fee New Facility Renewal                       |
| Modification Other                                    |
| Organization Code 521.07 Applicable FY 96             |
| To be deposited in the Water Quality Management Fund. |
| Full Payment or Annual Increment                      |
| 10/5                                                  |
| ING CO., INC.  SUNWEST BANK Hopps, AM 93241           |

PATE TRUCK! PIQ. BQX 1008 - 005-307-526 HQBBS, NM 88241

95-32111122

Jun 14, 1996

\*\*\*\*\*\*\$276.00

DATE

**AMOUNT** 

Two Hundred Seventy-Six and 0/100 Dollars

NMED WATER QUALITY MGT FUND C/O NM OIL CONSERVATION DIV 2040 SOUTH PACHECO SANTA FE, NM 87505 USA

PATE TRUCKING CO., INC. - ACCOUNT

NMED WATER QUALITY T FUND Check Date: 1050
Check Date: Jun 14, 1996

Check Amount: \$276.00

Item to be Paid - Description Discount Taken Amount Paid

1ST ANNUAL INSTALLMENT ON DISCHARGE FLAN APPROVAL 276.00

## **DISCHARGE PLAN**

#### prepared for

# Pate Trucking Company, Inc.

for the facility located at 3800 South Eunice Highway Hobbs, New Mexico 88240



MAY 2 3 1996

Environmental Bureau Oil Conservation Division

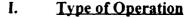
Prepared by:

F. Wesley Root

3624 West Casa Verde Hobbs, New Mexico 88241 (505) 392-8844

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Pate Trucking Company, Inc. is an Oil and Gas Service Company that provides transport services to clients in the oilfield. The facility is located on Highway 18 approximately 1.5 miles south of the corporate boundary of the city of Hobbs, New Mexico.

The major purpose of the facility is to provide an equipment yard, office, routine maintenance building, and chemical storage area for Pate Trucking Company, Inc. No non-domestic wastes are disposed of at the facility. The only domestic wastes discharged to the environment at the site is effluent from the office septic system.

The normal hours of operation are 7:00 AM to 5:00 PM Monday through Friday. The facility is fenced and secured during hours when company personnel are not present.

#### II. Name of Operator or Legally Responsible Party and Local Representative

Operator:

Pate Trucking Company, Inc. 3800 South Eunice Highway

Hobbs New Mexico 88240 Telephone: 505-392-8844

Responsible Party:

Same as above

Local Representatives:

Mr. Gary Reid - General Manager

Mr. Mark Mead - Vice President Mr. Mike Harvey - Sale Manager Mr. Allen Hodge - Safety Officer

#### III. Location of Potential Discharge

The facility is located in the Northwest Quarter of the Northwest Quarter of the Southwest Quarter of Section 14, Township 19 South, Range 38 East, N.M.P.M., Lea County, New Mexico (Figure 1, Appendix A).

#### IV. Landowners

Currently, Pate Trucking Company, Inc. is leasing the facility. The landowner of record

s: Mr. Darrell Compton

1401 North Avenue D

Denver City, Texas 79323 Telephone: 806-592-7006

#### V. Facility Description

The facility is situated on approximately seven acres of land. A diagram of the facility including facility/property boundaries, fences, pits, berms, tanks, locations of discharges, storage facilities, disposal facilities, processing facilities, and other relevant areas is shown in Figure 2, Appendix A. The facility consists of the following:

- An office building
- A maintance/shop building
- One abandoned non-registered water well
- One active non-registered water well
- An abandoned concrete wash pad with sump
- Two abandoned leech fields (Class V injection wells)
- An active underground septic system
- An above ground diesel storage tank
- An above ground used oil storage tank
- An above ground liquid petroleum gas (LPG) storage tank
- An above ground KCL storage tank
- An unlined fish pond
- A drum storage area with an impermeable surface
- An equipment storage yard

All storage tanks at the facility are above ground (ASTs) and are constructed of either fiberglass or carbon steel. The storage tanks are used to store wastes (used oil), chemicals (KCL water), and fuels (diesel and LPG). All of the ASTs are surrounded by secondary containment with the exception of the LPG storage tank. Secondary containment is provided by plastic lined earthen dikes. All secondary containment areas have the capacity to hold at least 133% of the volume of the tank within the containment area. There are no drains or underground piping associated with these areas. Should an accumulation of fluids/rainfall occur within the confines of the containment areas, the contents are inspected and characterized in accordance with State and Federal regulations prior to discharge/disposal.

The abandoned concrete wash pad with sump and the two abandoned leech fields (Class V injection wells) were abandoned prior to and have not been used since Pate Trucking took over the facility in September 1995.

The drum storage area consists of a concrete pad (former wash pad) that is dedicated for the temporary storage of chemical drums which contain various chemicals used in the oilfield during well workover and completion operations. Chemicals are stored at the area for short periods of time (typically 1 to 7 days) prior to transport to the job site by Pate Trucking personnel.

The abandoned water well is enclosed in a metal shed and secured by a padlock. The active water well is enclosed in a metal shed and used to supply water for the office septic system.

The unlined fish pond was constructed for decorative purposes only and is surrounded by an earthen berm to prevent the inflow of any storm water runoff / surface spills from the facility.

The active leach field adjacent to the office building is used to dispose of domestic sewage generated from the office bathrooms. No other waste streams are mixed with sewage

## VI. Materials Stored or Used at the Facility

| Table 1<br>Materials Stored or Used at the Hobbs, New Mexico Facility<br>Pate Trucking Company, Inc. |                                                    |                    |                     |                  |  |  |  |  |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------|---------------------|------------------|--|--|--|--|
| Category per NA                                                                                      | IOCD Discharge Plan Guidelines                     |                    |                     |                  |  |  |  |  |
| Material Stored                                                                                      | General Composition                                | Solid or<br>Liquid | Container<br>Type   | Volume<br>Stored |  |  |  |  |
| Category 1. Drill                                                                                    | ing Fluids                                         |                    |                     |                  |  |  |  |  |
| Not applicable                                                                                       | None                                               | None               | None                | None             |  |  |  |  |
| Category 2. Brit                                                                                     | nes (KCL, NaCl, etc.)                              |                    |                     | <u> </u>         |  |  |  |  |
| Claytrol-TCS                                                                                         | Quaternary ammonium compound                       | solid              | lined paper         | 40 sacks         |  |  |  |  |
| KCL water                                                                                            |                                                    | Liquid             | AST                 | 250 bbls         |  |  |  |  |
| Category 3. Acid                                                                                     | ls/Caustics (MSDS provided in Ap                   | pendix 1)          |                     |                  |  |  |  |  |
| Not applicable                                                                                       | None                                               | None               | None                | None             |  |  |  |  |
| Category 4. Dete                                                                                     | ergents/soaps                                      |                    |                     |                  |  |  |  |  |
| Chemex Super<br>Foamer -A                                                                            | Ammonium salt of sulfated liner alcohol ethoxylate | Liquid             | 55-gal drum         | 1 drum           |  |  |  |  |
| Category 5. Solv                                                                                     | ents and degreasers (MSDS providents               | led in Appo        | endix 1)            |                  |  |  |  |  |
| Mineral Spirits                                                                                      | Petroleum Distillates                              | Liquid             |                     | 5 gallons        |  |  |  |  |
| Kerosene                                                                                             | Petroleum Distillates                              | Liquid             |                     | 5 gallons        |  |  |  |  |
| Category 6. Para                                                                                     | fin Treatment/Emulsion Breakers                    | (MSDS pro          | ovide in Apper      | ıdix 1)          |  |  |  |  |
| Paratrol X-10                                                                                        | Parafin solvent blend                              | Liquid             | Drum                | *                |  |  |  |  |
| AKA Surfac -10                                                                                       | Surfactant blend                                   | Liquid             | Drum                | *                |  |  |  |  |
| Category 7. Bio                                                                                      | cides (MSDS provided in Appendix                   | (1)                |                     |                  |  |  |  |  |
| Not applicable                                                                                       | None                                               | None               | None                | None             |  |  |  |  |
| Category 8. Othe                                                                                     | ers                                                |                    |                     |                  |  |  |  |  |
| HD-5 Propane                                                                                         | Propane, ethane, propylene                         | Liquid             | AST                 | 1000 gal         |  |  |  |  |
| No. 2 Diesel Fuel                                                                                    | Light hydrocarbon distillates                      | Liquid             | AST                 | 1000 gal         |  |  |  |  |
| Fleet Heavy<br>Duty Motor Oil                                                                        | Solvent refined hydrocarbon distillates            | Liquid             | l gallon<br>plastic | 24 gal           |  |  |  |  |
| Antifreeze                                                                                           | Inhibited Ethylene Glycol                          | Liquid             | Drum                | 55 gal           |  |  |  |  |

### VII. Sources and Quantities of Effluent and Waste Solids Generated at the Facility

| Category per NMOCD Discharge l                                                      | Plan Guidelines    |                                  |                 |
|-------------------------------------------------------------------------------------|--------------------|----------------------------------|-----------------|
| Effluent Type                                                                       | Volume Generate    | ed Additive Type                 | Additive Volume |
| Category 1. Truck Wastes (Origina                                                   | al Contents Trucke | d)                               |                 |
| Not applicable                                                                      | None               | None                             | None            |
| Category 2. Truck, Tank, and Dru                                                    | ım Washing         |                                  |                 |
| Oil/water emulsion generated from cleaning of truck tanks *                         | 20 bbls/month      | Residues of KCL water, crude oil | 10 gal/month    |
| Category 3. Steam Cleaning of Pa                                                    | rts, Equipment Tai | nks                              |                 |
| Not applicable                                                                      | None               | None                             | None            |
| Category 4. Solvent/Degreaser Use                                                   | e                  |                                  |                 |
| Sediment residue generated from cleaning small tools/parts                          | 0.2 gal/month      | None                             | None            |
| Category 5. Spent Acids or caustic                                                  | s, or Completion F | luids                            |                 |
| Not applicable                                                                      | None               | None                             | None            |
| Category 6. Waste Slop Oil                                                          |                    |                                  |                 |
| Not applicable                                                                      | None               | None                             | None            |
| Category 7. Waste Lubrication an                                                    | d Motor Oils       |                                  | -               |
| Used motor oils from company vehicles                                               | 55 gal/month       | None                             | None            |
| Category 8. Oil Filters                                                             |                    |                                  |                 |
| Used oil filters from company vehicles                                              | 30 filters/month   | None                             | None            |
| Category 9. Solids and Sludges fro                                                  | om Tanks           |                                  |                 |
| Sediment residue generated from cleaning of truck tanks *                           | 1 bbl/month        | None                             | None            |
| Category 10. Painting Wastes                                                        |                    |                                  |                 |
| Various types of non-lead base paints and hydrocarbon based thinners                | s I gal/year       | None                             | None            |
| Category 11. Sewage                                                                 |                    |                                  |                 |
| Domestic sewage generated from Office. No other waste streams are mixed with sewage | 50 gal/day         | None                             | None            |
| Category 12. Other Waste Liquids                                                    | 3                  |                                  |                 |
| Not Applicable                                                                      | None               | None                             | None            |
| Category 13. Other Waste Solids                                                     |                    |                                  |                 |
| Industrial solid waste - office trash, paper, plastic, etc.                         | 150 lb/month       | None                             | None            |
| Spent automotive batteries **                                                       | 6 batteries/yr     | lead, acid                       | Unknown         |

Page 7

## VIII. <u>Description of Current Liquid and Solid Waste Collection/Storage/Disposal</u> Procedures

- 1. <u>Truck Wastes (Original Contents Trucked)</u> -Not applicable
- 2. Truck, Tank, and Drum Washing No washing of vehicles, tanks, or drums is currently performed at the Pate Trucking facility. All exterior washing of equipment and vehicles is performed at off site commercial facilities. Chemical drums present at the facility typically belong to a client/chemical service company and are temporarily stored on a concrete pad one to seven days prior to transport to the job site. Pate Trucking provides drum storage / transport service only. The client / chemical service company is responsible for the application of the chemical at the job site and the collection, storage, and disposal of any wastes generated.
- 3. <u>Steam Cleaning of Parts, Equipment, or Tanks</u> No steam cleaning of parts, equipment, or tanks is currently performed at the Pate Trucking facility. Periodic cleaning and inspection of tank interiors is performed off site by commercial facilities equipped for these services.
- 4. <u>Solvent/Degreaser Use</u> Solvent/degreaser use at the facility is restricted to a small parts cleaning unit located in the shop building. This unit is a closed loop system which recirculates the solvent. No wastes generated by the unit are disposed of at the facility.
- 5. Spent Acids or Caustics, or Completion Fluids Not applicable
- 6. Waste Slop Oil Not applicable
- 7. Waste Lubrication and Motor Oils Waste oil from vehicle maintenance operations performed on site by Pate Trucking personnel is collected and stored in a labeled above-ground storage tank. The AST is enclosed within a lined secondary containment The stored oil is periodically removed (approximately every 90 days) for reclaiming by a permitted used oil recycler. All reclaimed oil is manifested prior to transport.
- 8. <u>Oil Filters</u> Oil filters removed during vehicle maintenance are drained of excess oil and stored in the waste bin behind the office pending transport and disposal at the municipal landfill by a commercial waste management company.
- 9. <u>Solids and Sludges from Tanks</u> No washing of vehicles, tanks, or drums is currently performed at the Pate Trucking facility. All tank truck cleaning operations are performed at an off site commercial facility (Parabo Disposal Facility). The rinseate, residues, and solid waste generated from these operations is disposed of at the NMOCD permitted facility

- 10. Painting Wastes Painting of tanks, vehicles, and equipment is performed off-site by commercial facilities. Any painting wastes generated by occasional touch-up work performed by Pate Trucking personnel are allowed to dry and the solids stored in the waste bin behind the office pending transport and disposal at the municipal landfill by a commercial waste management company.
- 11. <u>Sewage</u> Domestic sewage from the Pate Trucking office is discharged through the active septic system located north of the office building. No other waste streams are mixed with the sewage.
- 12. Other Waste Liquids Not applicable
- 13. Other Waste Solids Industrial solid waste consisting of general refuse (office trash, paper, plastic, etc.) is stored in the waste bin behind the office pending transport and disposal at the municipal landfill by a commercial waste management company.

#### IX. Proposed Modifications

- Impoundment Closure Guidelines published by the NMOCD. Verify that all lines that could permit effluent to enter the two abandoned leach systems (Class V. injection wells) are plugged. Sample the soils, remove the leach systems, and close the two sites in accordance with the NMOCD Closure Guidelines. Closure operations will follow a work plan that has been submitted to and approved by the NMOCD prior to initiating closure. Pate Trucking Company plans to begin closure activities within one month of plan approval and complete the remediation activities within three months of the scheduled start date.
- 2. Plug and abandon the inactive water well. The procedure will include developing, water sampling, and plugging the well with a non-shrinking grout in accordance with applicable regulations. Plugging operations will follow a work plan that has been submitted to and approved by the NMOCD prior to initiating closure. Pate Trucking Company plans to begin closure activities within one month of plan approval and complete the remediation activities within three months of the scheduled start date.

#### X. <u>Inspection, Maintenance, and Reporting</u>

Chemical and waste storage area facilities are visually inspected routinely (daily) for leaks, corrosion or integrity problems; accumulated liquids in containment areas; improper labeling and storage practices; and open or deteriorated containers. Each storage area (except for the temporary drum storage area) is enclosed with in a plastic

lined earthen berm. All chemical and waste storage areas are isolated from other potential waste streams, and contain no buried piping.

Normal maintenance of the material storage facilities is performed by facility personnel under supervision of the General Manager. Routine maintenance includes inspection of storage areas, remediation of minor spills resulting from normal site operations which pose no threat to personnel and the repair of leaking fittings or valves.

The manager or Qualified Individual will determine which activities can be performed by facility personnel and which need to be contracted out due to the potential hazards involved.

Inspection and maintenance records are maintained in the Pate Trucking Office. The records include inspection dates, results, actions taken, and modifications or repairs performed. Inspection and reporting procedures for the ASTs, fish pond, and below grade sump are documented in the Spill Response / Contingency Plan inclosed in Appendix C.

#### XI. Spill/Leak Prevention and Reporting Procedures (Contingency Plans)

A copy of the Spill Response / Contingency Plan for the site is presented in Appendix C.

#### XII. Site Characteristics

#### 1. Surface Bodies of Water and Water Wells

A field survey of the facility and surrounding area identified no bodies of water or streams, or other watercourses within one mile of the Pate Trucking Facility, other than the on-site fish pond. A storm water drainage basin operated by the city of Hobbs is located approximately 3/4 of a mile north-northwest of the facility. The drainage basin is located in an upgradient position relative to the facility. No standing water was observed in either the fish pond or the drainage during the preparation of this Discharge Plan. No groundwater discharge sites (seeps, springs, marshes, or swamps) were identified with in one mile of the facility.

Approximately 13 water wells were identified within a 1/4 mile radius and 41 wells were identified with in an one mile radius of the facility during a review of the water well completion files at the New Mexico State Engineers Office (NMSEO) in Roswell, New Mexico. According to the well records submitted to the NMSEO, the well depths for the area ranged from approximately 70 feet to 170 feet. Static water levels reported at the time the wells were completed ranged from 32 feet to 80 feet below ground surface. The wells are completed in the Ogallala Formation (primary water producing zone in the site area). The data obtained from the NMSEO is presented in Tables 3 and 4.

#### 2. Water Ouality

Water quality within the High Plains Aquifer in the site area is controlled by the composition of the recharge from rainfall and leakage from adjacent formations. Based on a review of the available published data, groundwater in the site area contains total dissolved solids (TDS) concentrations of approximately 150 parts per million (ppm) to 200 ppm. Water quality data obtained from the NMSEO reported chloride levels ranging from 188 ppm to 830 ppm (Table 3). No water quality data was available for the two wells located on the facility. However, these wells will be sampled during plugging and abandonment of the inactive water well. The analytical will be included in the well plugging report and forwarded to the NMOCD when completed.

#### 3. Geologiy/Hydrology

The site is located on the northwestern margin of the Central Basin Platform, a north-south trending structural high that separates the Midland Basin to the east from the Delaware Basin to the west. Geologic formations at depth beneath the site dip gradually toward the south and west into the Delaware Basin and generally increase in thickness basinward. The shallower formations (Middle Triassic-age and younger) were deposited on several erosional unconformities and generally dip gradually toward the southeast.

The geologic formation that outcrops in the site area is the Ogallala Formation of Tertiary age. The Ogallala Formation is often covered by a thin layer of wind-deposited (eolian) dune sands consisting of reworked Recent age or Quaternary age alluvium. The Ogallala Formation ranges in thickness from approximately 100 to 200 feet and rests unconformably on Triassic-age sediments in the site area. Thickness of the Ogallala Formation is primarily controlled by the paleotopography of the sub-Ogallala erosional surface. The formation attains its greatest thickness along paleovalleys and thins along paleodivide areas.

The primary source of groundwater in the site area is provided by the High Plains Aquifer. The High Plains Aquifer is composed of hydraulically connected portions of the Quaternary Alluvium and Ogallala Formation. The contact between the Tertiary-age Ogallala formation and underlying Triassic-age sediments is an erosional unconformity that slopes regionally to the southeast. The unconformity is marked by an irregular thickness of Triassic-age shales, and sands (red beds). These red beds typically represent the lower limit of usable (potable) water in the area.

Based on a review of the available well logs of the site area, the depth to the water table is approximately 50 to 60 feet below ground surface. Groundwater movement beneath the site is toward the east-southeast and appears to parallel the drainage trend of the local topography.

The subsurface of the site consists of three general units; an upper unit (0 to 5 feet thick) of well-drained sandy loam belonging to the Kimbrough Soil Series; a middle unit (extending from the base of the loam to a depth of approximately 45 feet) composed of interbedded calcareous sands (caliche), limestones, and silicious sandstone; and a third unit composed of fine-grained, slightly calcareous to calcareous sands, clays, and often a scattered gravel. This unit extends from approximately 45 feet to the top of the Triassic-age shales, and sands (red beds).

Table 3
Water Quality of Water Wells with 1/2 Mile of Pate Trucking Facility
Analytical Results Obtained from the State Engineers Office

|                   |        |       |          |       |          | _     |          |       |             |          |          |       |             |     |
|-------------------|--------|-------|----------|-------|----------|-------|----------|-------|-------------|----------|----------|-------|-------------|-----|
| Well              | Permit | Total | Depth to | Water | Date     | Well  | Well     |       | Locatio     |          |          | Water | Quality     |     |
| Owner             | No.    | Depth | Water    | Zone  | Sampled  | - Use | Township | Range | Section     | Location | Chloride | SC    | Temperature | TDS |
| Marroquin, Frank  | W-1    | 100   |          | TOG   | 12/20/79 | IRR   | T19S     | R38E  | 15          | 41214    | 188      | 1348  |             |     |
| Marroquin, Frank  | W-2    | 100   |          | TOG   | 12/20/79 | DOM   | T19S     | R38E  | 15          | 412321   | 186      | 1049  |             |     |
| Marroquin, Frank  | W-2    | 100   |          | TOG   | 11/29/84 | DOM   | T19S     | R38E  | 15          | 412321   | 276      | 1331  |             |     |
| Marroquin, Frank  | W-2    | 100   |          | TOG   | 07/12/90 | DOM   | T19S     | R38E  | 15          | 412321   | 450      | 1988  |             |     |
| Terry, Johnny     | W-3    |       |          | TOG   | 11/29/84 | DOM   | T19S     | R38E  | 15          | 412322   | 284      | 1602  |             |     |
| Viro-Montes       | W-4    |       |          | TOG   | 11/12/84 | DOM   | T19S     | R38E  | 15          | 41413    | 158      | 1178  |             |     |
| Champion Chemical | W-5    |       |          | TOG   | 11/30/79 | DOM   | T19S     | R38E  | 15          | 422444   | 186      | 1405  | 66          |     |
| Champion Chemical | W-6    | 123   |          | TOG   | 08/17/77 | DOM   | T19S     | R38E  | 15          | 424233   | 504      | 2370  | 82          |     |
| Champion Chemical | W-6    | 123   |          | TOG   | 11/29/84 | DOM   | T19S     | R38E  | 15          | 424233   | 372      | 2208  |             |     |
| Champion Chemical | W-7    | 142   |          | TOG   | 08/25/65 | COM   | T19S     | R38E  | 15          | 42441    | 830      | 3110  |             |     |
| D. AM             | 11     | 1     |          |       | C1 .     |       |          |       | <del></del> |          |          |       | ·           |     |

Permit No. is issued by State Engineer. Where no well completion record was identified in State files a unique number beganing with a "W" was used to reference the well in this report.

Location uses state number code

Well Use - DOM=Domestic, IRR=Irrigation, COM=Commerical, OWD=Oil well drilling

-- No data available

Table 4
Summary of Water Wells Identified with in 1/2 mile of Pate Trucking Facility
Well Records on File with the State Engineers Office

| Well 2 - Pour                               | Permit        | Total      | Depth to     | Date.            | Date            | Well | - Wel        |              | Locatio |          |
|---------------------------------------------|---------------|------------|--------------|------------------|-----------------|------|--------------|--------------|---------|----------|
| s Owner -                                   | No.           | Depth      | Water        | Completed        | Plugged         | Use  | Township     | Range        | Section | Location |
| Narroquin, Franciso                         | L-6759        | 100        | 45           | 03/10/71         |                 | DOM  | T19S         | R38E         | 15      | 221      |
| Warroquis, Francisco                        | L-6858        | 100        | 45           | 12/06/71         |                 | DOM  | T19S         | R38E         | 15      | 230      |
| Townsend, Bobby                             | L-7357        | 101        |              | 04/12/75         |                 | DOM  | T19S         | R38E         | 15      | 24221    |
| Lee, G. D.                                  | L-8046        | 130        | 58           | 03/20/80         |                 | DOM  | T19S         | R38E         | 15      | 244      |
| Sherrill, Wilbur                            | L-7359        | 117        | 57           | 04/11/75         |                 | DOM  | T19S         | R38E         | 15      | 24444    |
| Dean, T. M.                                 | L-2667        | 108        | 70           | 02/21/57         |                 | DOM  | T19S         | R38E         | 15      | 400      |
| Bonner, C. C.                               | L-7512        | 100        | 32           | 04/14/76         |                 |      | T19S         | R38E         | 15      | 4122     |
| Weldy, G. W.                                | L-7882        | 100        | 32           | 04/19/79         |                 | DOM  | T19S         | R38E         | 15      | 41100    |
| Glasspoole, Frank                           | L-6101        | 100        | 38           | 12/22/85         | ļ               | DOM  | T19S         | R38E         | 15      | 41131    |
| Clark, J. C.                                | L-4489        | 100        | 41           | 08/28/60         | <b> </b>        | DOM  | T19S         | R38E         | 15      | 413      |
| Fulkerson, James                            | L-10046       | 120        | 70           | 11/26/88         |                 | DOM  | T19S         | R38E         | 15      | 4130     |
| Benny, Bobby                                | L-9821        | 100        | 51           | 05/03/86         |                 | DOM  | T19S         | R38E         | 15      | 41340    |
| Dobbins                                     | L-9012        | 100        | 32           | 08/02/82         |                 | DOM  | T19S         | R38E         | 15      | 414      |
| Dobbins, Hazel                              | L-9310        | 120        | 58           | 08/29/83         |                 | DOM  | T19S         | R38E         | 15      | 414      |
| Dobbins, B. R.                              | L-7381        | 100        | 50           | 05/16/75         |                 | DOM  | T19S         | R38E         | 15      | 41412    |
| Attaway, Neal                               | L-5013        | 100        | 47           | 04/09/63         |                 | DOM  | T19S         | R38E         | 15      | 420      |
| Scott, R. W.                                | L-9896        | 100        | 38           | 02/17/87         |                 | DOM  | T19S         | R38E         | 15      | 42124    |
| Ballew, Wayne                               | L-4107        | 112        | 60           | 04/23/59         |                 | DOM  | T19S         | R38E         | 15      | 422      |
| Barton, J. E.                               | L-4622        | 70         | 46           | 06/01/61         |                 | DOM  | T19S         | R38E         | 15      | 422      |
| Morrow, Terry                               | L-7379        | 120        | 44           | 05/31/75         |                 | DOM  | T19S         | R38E         | 15      | 42312    |
| Phar, T.                                    | L-4539        | 100        | 48           | 11/05/60         |                 | DOM  | T19S         | R38E         | 15      | 424      |
| Hardin & Houston                            | L-6733        | 123        | 50           | 11/16/79         |                 | DOM  | T19S         | R38E         | 15      | 424233   |
| Spradley, Jim                               | L-10322       | 133        | 44           | 04/13/93         |                 | D&S  | T19S         | R38E         | 15      | 42424    |
| Hardin & Houston                            | L-5623        | 142        | 52           | 06/06/64         |                 | COM  | T19S         | R38E         | 15      | 42441    |
| Bingham, M. L.                              | L-2689        | 83         | 49           | 11/30/54         |                 |      | T19S         | R38E         | 15      | 444      |
| Bingham, N. L.                              | L-3248        | 123        | 48           | 04/28/58         |                 | IRR  | T19S         | R38E         | 15      | 44412    |
| Aaron, A. A.                                | L-8352        | 118        | 50           | 09/17/80         |                 | DOM  | T19S         | R38E         | 15      | 44       |
| Tarber, Joe                                 | L-10138       | 170        | 60           | 12/15/90         |                 | IRR  | T19S         | R38E         | 15      | 44333    |
| Wallen Production                           | L-8250        | 125        | 80           | 01/12/80         |                 | OWD  | T19S         | R38E         | 15      | 34244    |
| Younger Construction                        | L-3658        | 120        | 50           | 08/28/57         |                 | DOM  | T19S         | R38E         | 14      | 310      |
| Selman, J. A.                               | L-1021        | 168        | 75           | 02/22/57         |                 | IRR  | T19S         | R38E         | 14      | 222      |
| Selman, Frank                               | L-345         | 124        |              | 10/26/47         |                 |      | T19S         | R38E         | 14      | 142      |
| Selman                                      | W-8           | 125        | 65           | 04/13/53         |                 |      | T19S         | R38E         | 14      | 240      |
| Caprock Communications                      | L-10011       | 140        | 60           | 06/15/88         |                 | DOM  | T19S         | R38E         | 14      | 1110     |
| Permit No. is issued by State Engineer When | o no well cor | nolation r | ecord was id | lentified in Sta | to files a unic |      | - baganing w | th a "117" 1 | 100     |          |

Permit No. is issued by State Engineer. Where no well completion record was identified in State files a unique number beganing with a "W" was used to reference the well in this report.

Location uses state number code

-- No data available

Well Use - DOM=Domestic, IRR=Irrigation, COM=Commerical, OWD=Oil well drilling

#### XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Date: 5/21/96

Name:

Gary Reid

Title:

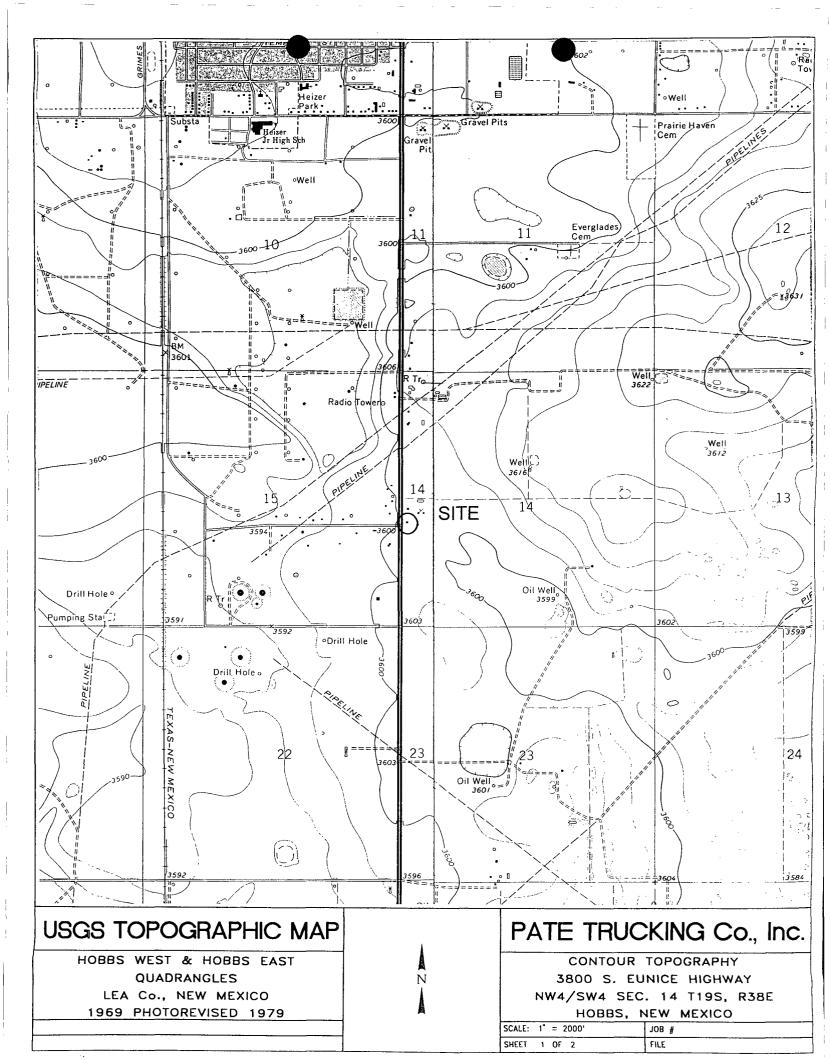
General Manager

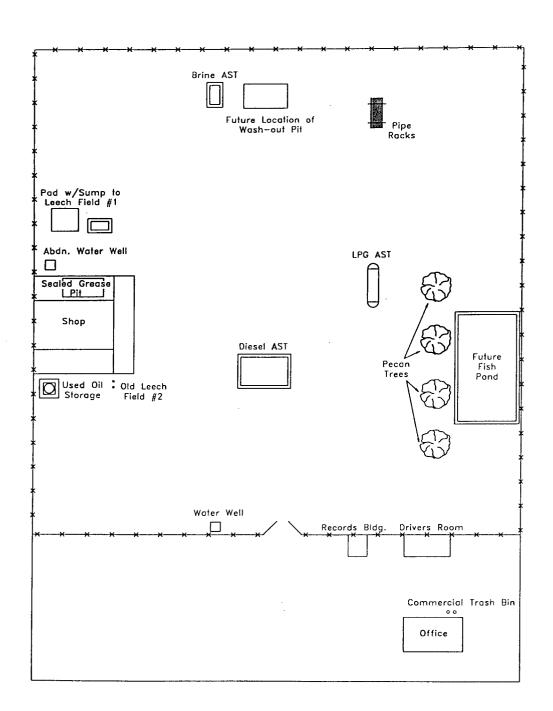
Signature:

Wes Root & Associates

Appendix A

Figures



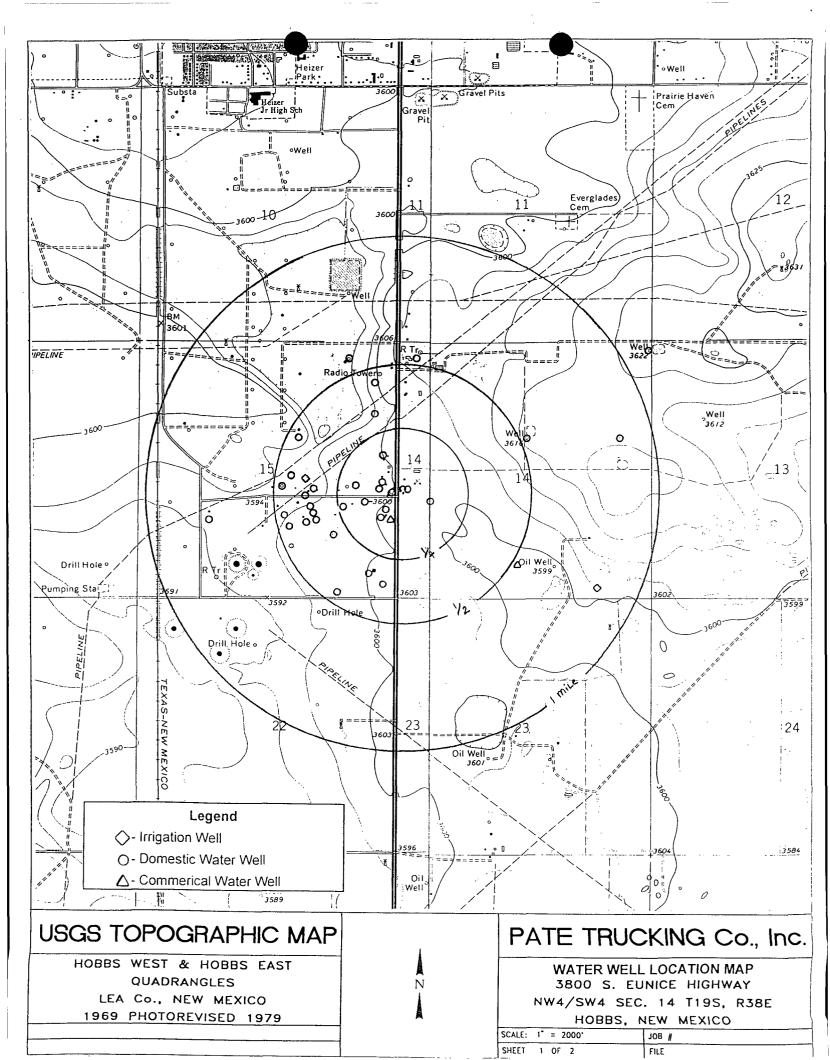


AST = Aboveground Storage Tonk

# PATE TRUCKING Co., Inc.

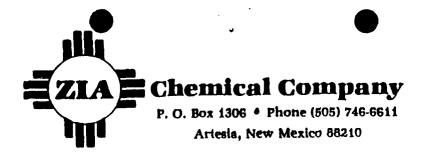
SITE MAP 3800 S. EUNICE HIGHWAY NW4/SW4 SEC,14, T19S, R38E HOBBS, NEW MEXICO

| DATE:2-7-96     | DRAWN M.F.G. | REV. DATE | DIV |  |  |
|-----------------|--------------|-----------|-----|--|--|
| SCALE: 1" = 100 | ),           | JOB ∦     |     |  |  |
| DRAWING 3 OF    | 3            | FILE:     |     |  |  |



# Appendix B Material Safety Data Sheets (MSDS)

H-2 K-0 K-0



#### PRODUCT INFORMATION

#### CI-119 Corrosion Inhibitor

" Cor- TroL.

#### DESCRIPTION

CI-119 is an oil soluble, water dispersible corrosion inhibitor formulated from an oil soluble complex amide and an oxalkylation of a complex amine.

CI-119 has excellent mobility in both phases of the producing system and exhibits excellent film persistency. It is formulated for use as a general purpose inhibitor which can be applied by chemical injection truck or conventional lubricator.

#### TYPICAL PHYSICAL PROPERTIES

**FORM** 

Liquid

DENSITY @ 60°F (1b/gal)

7.85

POUR POINT

Below OF

FLASH POINT

Above 140°F

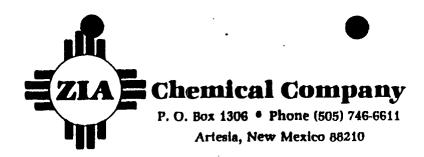
SOLUBILITY

Oil soluble; water dispersible

#### APPLICATION METHOD

CI-119 may be applied by chemical injection truck in which case it should be dispersed in fresh water or crude oil in a ration of 1 part chemical, 40 parts fluid and overflushed with one or more bhl water or oil. The overflushing is not mandatory; however, will insure inhibitor reaches bottom.

Application by means of a conventional lubricator is also very effective if followed by circulation and flushing with one or more bhl of produced fluid down the casing annulus. Posage amounts and frequency of treatment are determined by individual well characteristics. All the possible variables cannot be covered in this product description.



#### HANDLING PRECAUTIONS

CI-119 is non-toxic and is not considered dangerous. However, reasonable precautions should be taken to avoid physical contact. Skin irritations may result from prolonged exposure. Rinse affected areas with fresh water and wash with soap and water.



#### MATERIAL SAFETY DATA SHEET

Zia Code:

Cor-Tcol-2 Corossion Inhibitor

Chemical Name: Not applicable; Blend

OSHA: Component

Irritant: Strong oxidizing agents, plus alkalines and Fatty Acids.

First Aid and Nature of Hazard.

#### Eye Contact:

Flush eyes with large amounts of water until irritation subsides. If irritation presists, get medical attention. Irritating, but does not injure eye tissue.

#### Skin Contact:

Remove grossly contaminated clothing, and launder before reuse.

If irritation persists, seek medical attention. Low order of toxicity.

Freguent or prolonged contact may irritate and cause dermatitis.

#### Inhalation:

Vapors which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

#### Ingestion:

First aid not mormally required . Low order of toxicity.

PHONE 505.746.6100

P. O. Box 423 ARTESIA, NEW MEXICO

PRODUCTION - CHEMICALS - DRILLING

#### PRODUCT INFORMATION

TBC-2 Surfactant
(AKA Surfac - 10)

#### DESCRIPTION

Chemex  $\mathcal{IBC}_{-2}$  surfactant is a non-ionic surface active agent. It is formulated for use in all oil field brines and fresh water. The product is compatible with both acid and caustic solution.

Oil coated and impregnated scale consisting of calcium carbonate, calcium sulfate, and iron sulfide are removed more effectively by the use of Sur-Fac 10 with an acid or caustic solution. Oil. suspended in the workover solution.

Demulsifiers incorporating Sur-Fac 10 in the formulation are most effective in water wetting iron sulfide particles.

#### TYPICAL PHYSICAL PROPERTIES

SOLUBILITY

**FORM** Liquid DENSITY @ 60°F (15/gal) 15<sup>0</sup>F POUR POINT

Water soluble; oil dispersible

Contains no arsenic, heavy metals, or organic chlorine compounds.

#### APPLICATION METHOD

INJECTION WELLS: A controlled dosage of .5% -1.0% based upon the water injection rate for 5-30 minutes will emulsify heavy hydrocarbons filtered out at the formation face. If the well is making fluid on vaccum, it is a simple matter to bleed 1 or more gallons into a tee in the line to the well. Example:

Assumption: An injection well at the rate of 1 bb1/1 minute and a desired chemical dosage of .5% for 20 minutes.

Find: Gallons of chemical to be fed during a 20 minute "wash". Solution:  $42 \text{ gal/min } \times .005 \times 20 \text{ min. Answer: } 4.2 \text{ gal.}$ 

ACID OR CAUSTIC SOLUTIONS: 1 to 2% concentration in an acid or caustic solution is adequate to improve the effectiveness of either chemical treatment.



P. O. Box 423 ARTESIA. NEW MEXICO

Sur-Fac 10 will dissolve in concentrated solution of electrolyte at low or high pH without degration or loss of effectiveness.

KOBE SYSTEM: Sur-Fac 10 injected continuously at a rate of 1 gal/1000 bbl of power oil will help prevent pump sticking and it is recommended that fresh water be maintained on the bottom of the power oil tank into which 10 to 20 gallons of Sur-Fac 10 is added. Chloride levels would be checked periodically and fresh water added as needed.

#### HANDLING PRECAUTIONS

Sur-Fac 10 is a surfactant that is non-toxic and requires no special handling precautions.



#### MATERIAL SAFETY DATA SHEET

Zia Code

-TBC-Z.

Chemical Name: Not applicable, Blend

OSHA: Component

Irritant: Primary skin irritant and defatting agent.

Nonionic surfactant/detergent.

First Aid and Nature of Hazard

#### Eye Contact;

Flush with large amounts of water until irritation subsides. If persists, seek medical attention. May cause redding and conjunctivites.

#### SKIN CONTACT:

Remove grossly contaminated clothing and launder before reusing.

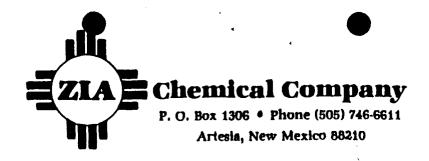
#### INHALATION:

Vapors which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

#### INJESTION:

Injestion of this material may result in toxic effects.

H-2 F-4 R-0 S-0



#### PRODUCT INFORMATION

# Paratrol X-10 Paraffin Solvent

#### DESCRIPTION

Paratrol X-10 contains a combination of ingredients which have proven to be the most effective broad spectrum paraffin solvent in the oil producing industry. Paratrol will dissolve both microcrystalline wax and asphalt-base heavy hydrocarbons.

### TYPICAL PHYSICAL PROPERTIES

FORM.

Liquid

DENSITY @ 60°F (1b/ga1) 9.21

FLASH POINT

Below 50°F

POUR POINT

-20°F

SOLUBILITY

Oil soluble, water insoluble

Contains no arsenic compounds or chlorinated hydrocarbons.

# APPLICATION METHODS

Generally, paraffin solvents are best applied by periodic batch treatment and Paratrol X-10 is no exception. In pumping wells, five or ten gallons poured into the tubing head and allowed to soak overnight will often facilitate pulling the rods out.

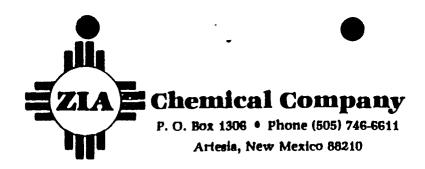
Flow lines are treated with lubricators near the well. Dosage and frequency of treatment vary widely according to the rate of oil production and severity of the condition.

Continuous injection of Paratrol X-10 into flow lines has been reported to be very successful for paraffin control.

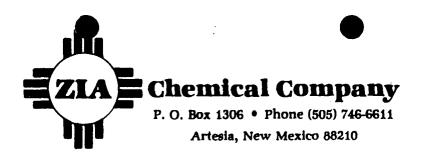
Another method of paraffin control is the use of PI-1200 Paraffin Inhibitor when conditions are suitable for the application of this product. Refer to the product information sheet on PI-1200 in this manual for further details.

# HANDLING PRECAUTIONS:

WARNING!! Care should be exercised to prevent vapor exposure to sparks



or flame. Store in a ventilated area away from engines, electric motors, and open flames.



Zia Code: Paratrol X-10

Chemical Name: Not Applicable, Blend

Osha: Component

Physical Data: Boiling Point 115.8 C - 240 F

Percent Volatiles By Volume - 100 Freezing Point - 83.5 C - -118 F

Flash Point - Below 75 F Soluability - Oil Soluable Water Dispersible

Fire & Explosion Hazard Data:

Avoid heat, open flame, sparks, and contact with strong oxidizing agents. Extinguishing Media: Use CO<sup>2</sup> or dry chemical for small fires; alcoholtype aqueous film-forming foam for large fires.

Special Fire Fighting Procedures:

Do not enter any enclosed or confined fire space without protective equipment. This may include self contained breathing apparatus.

#### Emergency & First Aid Procedures:

Eye Contact:

Flush eyes with water for at least 15 minutes. Contact physican. Skin Contact:

Remove contaminated clothing. Flush skin with water. If irritation persists contact a physican. Do not reuse clothing until cleaned.

Remove victim to fresh air and provide oxygen if breathing is difficult. Give artifical resperation if not breathing. Get mdeical attention.

Ingestion:

Induce vomiting of conscious victim immediately by giving no more than two glasses of water and touching finger to back of victims throat. Seek medical attention.

Reactivity:

Stability - Stable

Hazardous Polymerization - Will Not Occur

FHONE 505.746.6100

H-1 F-0 S-D



P. O. Box 423 ARTESIA, NEW MEXICO 86210

PRODUCTION - CHEMICALS - DRILLING

#### PRODUCT INFORMATION

Chemex Super Foamer-A
WASH DOWN SOA

DESCRIPTION

Chemex Super Foamer-A is a unique foamer having highly superior qualities in forming thick, stable foam which resist the ordinary destructive effects of chlorides, clays and other contaminants present in an air or gas system.

#### TYPICAL PHYSICAL PROPERTIES

| APPEARANCE            | Liquid      |
|-----------------------|-------------|
| ODCR                  | Mild        |
| COLOR VCS             | 2-4         |
| TOTAL SOLIDS          | 60 - 63     |
| NON-IONIC-%           | Less than 3 |
| рН                    | 7           |
| POUNDS PER GAL        | 8.5         |
| FLASH POINT (COC), OF | 174         |

# CHEMICAL COMPOSITION:

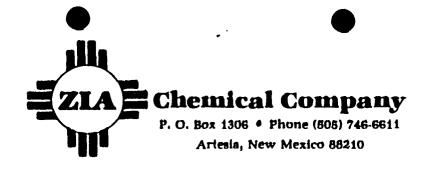
Ammonium Salt of Sulfated Linear Alcohol Ethoxylate

### SUGGESTED USES

Chemex Super Foamer-A is readily and completely biodegradable possesses high foaming properties in both soft and hard water, is an excellent emulsifier and detergent and is highly suitable for a wide variety of household and industrial uses. Primarily Chemex Super Foamer-A was designed to be used as a foamer for air drilling.

# HANDLING FRECAUTIONS

This material is non-toxic and is not considered dangerous to handle.



Zia Code: De-Trol, \_ Saap , Degreaser

Chemical Name: Not applicable, Blend

OSHA: Component

Irritant: Oxyalkylated Phenol, Sulfanic Acid Salt Solution

First Aid and Nature of Hazard

#### Eye Contact:

In case of eye contact, flush with copious amounts of clean water with eyelids open. If irritation persists, seek medical attention.

#### Skin Contact:

Remove grossly contaminated clothing wash skin with mild soap/water. Launder clothing before reuse.

#### Inhalation:

Vapors which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

#### Ingestion:

Ingestion of this material may result in toxic effects.



# Frac Tech

A Division of Plainsman Technology Inc.



CLAYTROL

March 26, 1992 Revised March 31, 1994

KCL Substitute, temporary clay control

Product Class: Organic replacement for KOL, temporary control of swelling clays.

#### Description:

Claytrol is a low molecular weight organic cation chloride in water. Claytrol is a highly concentrated product, designed to replace KCl in formation treatments and workovers. Claytrol is a high efficiency temporary stabilizer for smectite, illite and mixed layer clay minerals encountered in many reservoirs. Claytrol is not surface active and will not upset NE packages. Claytrol is less damaging to low permeability rock than most other KCL substitutes and permanent clay stabilizers.

#### Physical Properties: Typical

Physical state liquid Specific gravity @ 60F(15C) 1.107 Density,  $15m/gal(g/cm^2)$  @ 60F(15C) 9.24(1.107) Pour point, F(C) <5(-15) Flash point, F(C) > 200(93) Boiling point, F(C) > 212(100) Viscosity,  $cP \otimes F(C)$  2.3 @ 77(25)

#### Chemical Properties: Typical

Chemical type

organic cation in water

Ionic character

not surface active mild amine

Odor Color

colorless to pale yellow, clear

Shelf-life

> 2 year

Wetting tendency on sand

not surface active

on limestone

not surface active

Compatibility - No known compatibility problems with other typical additives or

treating fluid systems, surfactants, gelling agents, crosslinkers.

Items from the Frac Tech product line have been tested.

Incompatibility - No known incompatiblities

#### Mixing Procedure:

Claytrol can be run on-the-fly or be batch mixed. The recommended procedure is to add the Claytrol to the fluid prior to any other additives.

Technical Data



· Claytrol is highly concentrated but highly cost effective.

#### Job Design Data:

Recommended loading is % to 2 gal per 1000 of fresh water, depending on mineralogy of the formation. At this loading Claytr's will mimic KCL in terms of the swelling and sloughing of clay minerals in the reservoir rock.

#### Comparative Performance Data:

Performance of KCl substitutes can be determined by their effect on the permeability of porcus media. The procedure accompanying this report was used to evaluate several commonly available materials. The results of those tests are reported below.

Although KCl has obvious advantages, as seen in the data, the organic temporary clay control products have many operational, environmental and technical pluses. Claytrol, as can be seen, is as good as or better than the other commercial agents.

|    |             |           | Flow    | Rates     |                           |                  |                 |   |
|----|-------------|-----------|---------|-----------|---------------------------|------------------|-----------------|---|
|    |             |           | Treated | Regained  | Treated                   | Fresh            | Capillary       |   |
|    | KC1         | Loading   | water   | brine     | Water Flow                | Water            | Suction         |   |
|    | Substitute  | gal /Kgal | % hrine | % initial | اع ع <u>الم است. سنات</u> | Shart-ff.        | % Time. sec     | ~ |
|    | desired ran | nge -     | >30     | >40       | <10                       | >50              | >400 specifical |   |
|    | 2% KC1      | 2%        | 144%    | 80%       | 1.63                      | 83%              | 600 standard    | _ |
|    | NHGC1 slurr | -y 5      | 52%     | 37%       | 2.15                      | 65%              | <del>384</del>  |   |
| ٠. | Cla-Sta 2   | 5         | 30%     | 16%       | 9.28                      | 23%              |                 |   |
|    | BIO - 31    | 5         | 7%      | 87.       | 18.33                     | 42%              | 129             |   |
|    | AY - 80     | 5         | 12%     | 22%       | 13.18                     | 20%              | 14              |   |
|    | SP - 292    | 5         | 20%     | 42%       | 13.62                     | <i>T</i> /.      | 14              |   |
|    | TMAC (33%)  | 5         | 27%     | 35%       | 6.62                      | 70%              | 492             |   |
|    | TMAC (50%)  | 2         | 37%     | 42%       | 5.0                       | 63%              | <del>دود</del>  |   |
|    | ETMAC (33%) | : 5       | 30%     | 23%       | 10.15                     | 74%              |                 |   |
|    | diquat      | 5         | 7%      | 12%       | 26.77                     | 17%              | <del>677</del>  |   |
|    | Claytrol    | 2         | 86%     | 47%       | 1.7                       | 61%              | 993             |   |
|    | Claytrol    | 2.5       | 37%     | 28%       | 5.7                       | 61%              | 813             | - |
|    | Claytrol    | 5         | 43%     | 45%       | 5.3                       | 75%              | 388             |   |
|    | Claytrol    | 10        | 83%     | 80%       | 1.2                       | 7 <del>8</del> % | 115             | • |

Safety: Refer to the Material Safety Data Sheet(MSDS).

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P.O. Box 557 Marlow, OK 73055 (405)658-6608

CLAYTROL-TCS(TM)

| S                                                                                                                                                                                                          | ECTION I -                                                                                                                        | IDENTIFICATION                                                                               |                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| ****************                                                                                                                                                                                           | =======================================                                                                                           | <b>======</b> ==============================                                                 | =======================================                                       |
|                                                                                                                                                                                                            | FRAC TECH DIV<br>P.O. BOX 557<br>MARLOW, OK 7:<br>(405)658-6608                                                                   |                                                                                              | TECHNOLOGY, INC.                                                              |
| EMERGENCY PHONE NUMBER                                                                                                                                                                                     | DOMESTIC (800                                                                                                                     | )732-9876<br>(817)877-4020                                                                   |                                                                               |
| EFFECTIVE DATE                                                                                                                                                                                             | January 17, 19<br>KCl Substitute<br>CLAYTROL-TCS Quaternary am                                                                    | 995<br>e<br>тм)<br>monium compound                                                           |                                                                               |
| ======================================                                                                                                                                                                     | SECTION II                                                                                                                        |                                                                                              | =======================================                                       |
| haZARDOUS COMPONENTS                                                                                                                                                                                       |                                                                                                                                   |                                                                                              |                                                                               |
| None                                                                                                                                                                                                       | N/A                                                                                                                               | N/A                                                                                          | N/A                                                                           |
| =======================================                                                                                                                                                                    |                                                                                                                                   |                                                                                              | =======================================                                       |
| o<br>====================================                                                                                                                                                                  |                                                                                                                                   | PHYSICAL DATA                                                                                | =======================================                                       |
| BOILING Point(F)  FREEZING POINT (F)  VOLATILITY/VOL(%)  MELTING POINT  VAPOR PRESSURE (mm Hg)  VAPOR DENSITY (Air=1)  SOLUBILITY IN H20  APPEARANCE/ODOR  SPECIFIC GRAVITY (H20=1).  EVAPORATION RATE  PH | >212°F (100°C<br>Less than 0°F<br>N/A<br>Information n<br>Information n<br>Completely so<br>Colorless to<br>1.06<br>Information n | ) ot available ot available ot available luble in water pale yellow, amin                    |                                                                               |
| SECTION I                                                                                                                                                                                                  | V - FIRE AN                                                                                                                       | D EXPLOSION HAZAF                                                                            | RD DATA                                                                       |
|                                                                                                                                                                                                            | >200°F (93°C)<br>N/A<br>N/A<br>In case of fi<br>chemical or C<br>Full protecti<br>approved posi<br>apparatus sho<br>should be cle | re use water spra<br>O <sub>2</sub> (carbon dioxid<br>ve equipment incl<br>tive pressure sel | de).<br>Luding NIOSH/MSHA<br>Lf-contained breathing<br>L protectivé equipment |

CLAYTROL-TCS (TM)

SECTION V - HEALTH HAZARD DATA THRESHOLD LIMIT VALUE.... None currently established

OVER EXPOSURE EFFECTS.... None known

FIRST AID PROCEDURES..... EYES: Flush eyes with copious quantities of water for a minimum of fifteen minutes. Use fingers to ensure that eyelids are separated and that eye is being irrigated. If irritation persists consult a physician.

> SKIN: Wash thoroughly with soap and water. INHALATION: Remove from source of exposure.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY.... Stable

CONDITIONS TO AVOID..... None known

COMPATIBLE MATERIALS... None known

DECOMPOSITION PRODUCTS... Combustion may produce carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION. Will not occur.

POLYMERIZATION AVOID.... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL ..... If material spill occurs, absorbent materials should

be used to prevent runoff from entering drains, sewers or streams. Waste residue should be collected

and placed in a closed container for waste disposal.

WASTE DISPOSAL METHOD.... Dispose of any residues or wastes according to

prescribed statutes, regulations and guidelines, e.g., secured chemical landfill, approved chemical wastes incineration or approved (low level) discharges to minicipal or on-site wastewater

treatment facilities.

SECTION VIII - SPECIAL PROTECTION 

RESPIRATORY PROTECTION... OSHA and ACGIH have not established specific exposure

limits. ..... Local exhaust ventilation and/or process containment . JTILATION...

may be used to minimize worker exposure to organic

vapors that may be given off.

PROTECTIVE GLOVES..... None normally required.

EYE PROTECTION..... Safety glasses and/or chemical safety goggles should

be worn. The choice of protection should be appropriate to the task being performed.

CLAYTROL-TCS(IM)

| OINER PROIECTIVE | OTHER PROTECTIVE |
|------------------|------------------|
|------------------|------------------|

EQUIPMENT..... Washing facilities should be available. Wash

thoroughly after handling.

HANDLING AND STORAGE..... Containers need no special warning labels in addition

to the product identity label.

#### SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS..... None

DOT SHIPPING NAME..... Not Regulated

REPORTABLE QUANTITY (RQ). N/A

UN NUMBER..... N/A

NA #.... N/A
PACKAGING SIZE.... 55 gallons

FOOT NOTES Sara Title III (Superfund Amendments & Reauthorization Act of 1986) - Sections 302, 311, 312 and 313:

ection 302 - Extremely Hazardous Substances (40CFR355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

Sections 311 & 312 - Material Safety Data Sheet Requirements (40CFR370): Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

- \_n/a\_ Immediate (acute) health hazard
- \_n/a\_ Delayed (chronic) health hazard
- \_n/a\_ Fire hazard
- \_n/a\_ Sudden release of pressure hazard
- \_n/a\_ Reactive hazard

Under Section 311, submittal of MSDS's or a list of product names to the local emergency planning commission, state emergency response commission & local fire department is required after October 17, 1989 for all hazardous substances.

Section 313 - List of Toxic Chemicals (40CFR372): This product contains the following ingredients, (with CAS# and % range) which appears on the List of Toxic Chemicals: None.

#### REFERENCES

CLAYTROL-TCS(TM)

#### DISCLAIMER OF LIABILITY

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**CONTAINS PETROLEUM DISTILLATES** 

# CAUTION!

COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF INHALED MAY BE HARMFUL IF SWALLOWED. MAY CAUSE DIZZINESS AND DROWSINESS ASPIRATION MAY CAUSE LUNG DAMAGE.

> BEFORE USING THIS PRODUCT, READ THE MATERIAL SAFETY DATA SHEET

KEEP AWAY FROM HEAT AND FLAME AVOID CONTACT WITH EYES. SKIN AND CLOTHING KFFP CONTAINER CLOSED USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING DO NOT TRANSFER TO UNLABELED CONTAINERS

# FIRST AID:

IN CASE OF CONTACT FOR EYES, IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES CALL A PHYSICIAN FOR SKIN, FLUSH WITH WA-WASH CLOTHING BEFORE REUSE

IF INHALED, REMOVE TO FRESH AIR IF NOT BREATHING, GIVE AR-TIFICIAL RESPIRATION OF BREATHING IS DIFFICULT. GIVE OXY-CALL A PHYSICIAN

IF SWALLOWED CALL A PHYSICIAN IMMEDIATELY NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON

# IN CASE OF FIRE:

USEFOAM, CARBONDIOXIDE, DRY CHEMICAL, OR WATER FOG OR SPRAY.

SPILLS OR LEAKS: FOR INDUSTRIAL USE ONLY

SMALL SPILL - SOAK UP WITH ABSORBENT MAT-ERIAL AND SCOOP INTO DRUMS.

LARGE SPILL — DIKE AND PUMP INTO DRUMS, PRE-CHEMCENTRAL VENT MATERIAL FROM ENTERING DRAINS, SEWERS, 1 OR WATERWAYS.

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

FOR HELP IN A CHEMICAL EMERGENCY, CALL CHEMTREC - (800) 424-9300.

105 PRONTO ODESSA, TX. 79760 915-367-6087



# DANGER

AFTER THIS CONTAINER HAS BEEN EMPTIED IT MAY CONTAIN EXPLOSIVE AND HARMFUL VAPORS AND RESIDUE. KEEP AWAY FROM HEAT. SPARKS, AND FLAMES!

DO NOT CUT, PUNCTURE. OR WELD ON OR NEAR THIS CONTAINER.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE UNTIL COMMERCIALLY CLEANED.

DEALERED 4000



REFINING COMPANY P. O. BOX 159 ARTESIA, NM 88211-0159

(505) 748-3311, (505) 365-8364, (505) 365-8365 (24 Hours)

# MATERIAL SAFETY DATA SHEET

#### EMERGENCY PHONE NUMBERS:

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information) NEW MEXICO POISON INFORMATION CENTER: 1-800-432-6866 (for poisoning) TEXAS (EL PASO) POISON INFORMATION CENTER: (915) 533-1244 (for poisoning) ARIZONA POISON INFORMATION CENTER: 1-800-362-0101 or (602) 253-3334 (for poisoning)

# KEROSENE

# SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: KEROSENE FORMULA:  $C_9H_{20}$  to  $C_{16}H_{34}$ 

CAS NUMBER: 8008-20-6 CHEMICAL FAMILY: Petroleum Hydrocarbon

SYNONYMS: Fuel oil #1, coal oil, range oil, kerosine

UN 1223



NFPA 704 SYMBOL

## SECTION 2 - HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENTS  | CAS NO.   | VOL* | TLV    | STEL   | PEL (OSHA) | IDLH    |
|-----------------------|-----------|------|--------|--------|------------|---------|
| KEROSENE (containing) | 8008-20-6 | >95  | NA     | NA     | NA:        | NA      |
| Napthalene            | 91-20-3   | 1    | 10 ppm | 15 ppm | 10 ppm     | 500 pp: |

#### SECTION 3 - PHYSICAL DATA

BOILING POINT: 300-575°F

VAPOR PRESSURE: @100°F 5 mm Hg

VAPOR DENSITY (AIR=1): 4.5

SOLUBILITY IN WATER: Insoluble

ODOR THRESHOLD: 1.0 ppm

SPECIFIC GRAVITY (WATER=1): 0.8

\* VOLATILE BY VOLUME: N.A.

EVAPORATION RATE: No data available

AUTOIGNITION TEMP: 444°F

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

APPEARANCE AND ODOR: Clear to yellow liquid with characteristic hydrocarbon smell

CLASSIFICATION: CLASS II, COMBUSTIBLE LIQUID

FLASH POINT: 110-165°F (TOC)

FLAMMABLE LIMITS: LEL = 0.7% UEL = 5.0%

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, Halon

SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area if possible. Use water

to keep fire exposed containers cool. Use foam for spill control.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Evacuate a radius of 1500 feet for uncontrolled fires. Vapors are heavier than air and may travel great distances and flash back. Extinguish only if flow can be stopped.

NFPA FIRE = 2 (moderate)

PAGE 1

DATE PREPARED: 02/20/95

ISSUE NO. 7

#### KEROSENE

#### SECTION 5 - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID/INCOMPATABILITY: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

NFPA REACTIVITY = 0 (minimal)

#### SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, ingestion, skin contact.

HEALTH HAZARDS: Chronic toxicity, possible cancer, irritation to eyes, skin and mucous membranes, pulmonary edema, bronchial pneumonia, asphyxiation, liver and kidney damage, anemia or myocardial damage.

CARCINOGENICITY: Product is not listed by NTP or IARC.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of eyes, skin and mucous membranes, dizziness, headaches, respiratory arrest, coughing, irregular heartbeat, mental confusion, vomiting, blurred vision, flushing of face, slurred speech, difficulty in swallowing, weakness, pain in limbs, coma and convulsions. Also, insomnia, toxicity, psychosis, tremors, exaggerated tendon reflexes

#### EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: DO NOT induce vomiting. Immediately seek medical attention. Give water to dilute, if conscious.

INHALATION: Maintain respirations, assist with artificial respiration if needed and give oxygen if available and trained to do so. Seek medical attention. If liquid is in lungs (aspirated) seek medical care.

EYES: Flush eyes with water for at least 15 minutes. Seek medical attention.

SKIN: Remove kerosene soaked clothing. Wash skin with soap and water. If irritation persists seek medical attention.

NFPA HEALTH = 0 (minimal)

#### SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

- STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Contain spill. Use water fog to suppress vapor cloud. Use SCBA to avoid breathing vapors. Absorb liquid with sand or clay.
- WASTE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any water course.
- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: All equipment and storage containers should be properly grounded. This material is subject to OSHA and DOT regulations. Portable metal containers should be bonded to the storage container before transferring liquid.
- OTHER PRECAUTIONS: Avoid breathing vapors. Extremely flammable. Do not weld on containers unless properly cleaned and purged using safe work procedures.



#### SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use NIOSH\MSHA approved respiratory protection in areas exceedi: exposure limits, the type to be determined by the degree of exposure.

VENTILATION: Use in well ventilated area. Mechanical exhaust should be explosion proof

EYE/SKIN PROTECTION: Rubber gloves, face shields, goggles or safety glasses with side shields, coveralls.

WORK/HYGIENIC PRACTICES: Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.

NOTICE: This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 27 FOR ADDITIONAL EMERGENCY INFORMATION.

This information is believed to be accurate and as reliable as information available to us. We make no warranty or guarantee as to its accuracy and assume no liability from its use. Users should determine the suitability of the information for their particular purposes.



Page 1

BASF CORPORATION 100 CHERRY HILL RD.

PARSIPPANY, NJ 07054 (201) 316-3000

Original Date:

10/15/1991

**Revision Date:** 

03/31/1992

Emergency Telephone: (800) 424-9300 (CHEMTREC)

(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

# SECTION 1 - PRODUCT INFORMATION

Product ID: NVS 583870

NAPA ANTIFREEZE

Common Chemical Name:

INHIBITED ETHYLENE GLYCOL

Synonyms:
ANTIFREEZE

Molecular Formula:

MIXTURE

Molecular Wt.: NOT APPLICABLE

Chemical Family: Glycol

## SECTION 2 - INGREDIENTS

| Chemical Name:                                                                                | ·                  | CAS #:                                   | Amount:                       | PEL/TLV Data:                                |    |
|-----------------------------------------------------------------------------------------------|--------------------|------------------------------------------|-------------------------------|----------------------------------------------|----|
| ETHYLENE GLYCOL                                                                               | HC<br>H            | 107-21-1<br>111-46-6                     | 85.0 - 95.0 %<br>0.0 - 10.0 % | OSHA CEIL 50 PPM<br>FINAL<br>NOT ESTABLISHED |    |
| I - Denotes an IARC listed co<br>N - Denotes an NTP listed ca<br>O - Denotes an OSHA carcinog | rcinogen<br>en     |                                          |                               |                                              |    |
| H - Denotes an OSHA health h<br>P - Denotes an OSHA physical<br>C - Denotes a CERCLA (isted)  | hazard<br>chemical |                                          | e Service de La dag           |                                              | i. |
| 66X see section 10A for SARA                                                                  | -313 list.         | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |                               |                                              | •  |

100 Cherry Hill Road, Parsippany, New Jersey 07054 (201) 316-3000



NAPA ANTIFREEZE

Page 2

### SECTION 3 - PHYSICAL PROPERTIES

Color:

Green

Form/Appearance:

Liquid

Glycol

Odor Intensity:

Faint

Low-RANGE-High U. O. M.

SU

Spc. Gravity:

Typical 1.135

11

pH:

Typical

Low-RANGE-High Deg.

@ Pressure

Boiling Pt:

330

F

760 MM HG

Freezing Pt:

NOT AVAILABLE

Decomp. Tmp:

NOT AVAILABLE

Solubility in Water Description: Infinite

Vapor Pressure:

18

20 DEG. C

#### SECTION 4 - FIRE AND EXPLOSION DATA

Typical

Low-RANGE-High Deg.

Method F CLEVELAND OPEN CUP

Flash Point: Autoignition: 250 775

F NONE SPECIFIED

Extinguishing Media:

Water fog, alcohol foam, CO2 or dry chemical extinguishing media.

Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Avoid breathing vapors or fumes of heated product or burning product.

Unusual Hazards:

Vapors from heated (above flashpoint) of product may travel to a source of ignition and flash back.



NAPA ANTIFREEZE

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#### SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gasses include inhalation and eye and skin contact.

#### Acute Overexposure Effects:

Contact with the eyes and skin may result in irritation.

Acute overexposure to diethylene glycol and ethylene glycol can cause severe abdominal distress, CNS depression, possibly respiratory and/or kidney failure.

#### Chronic Overexposure Effects:

Chronic overexposure to diethylene glycol and ethylene glycol can cause liver and kidney damage. Animal studies indicate that ethylene glycol may be embryotoxic and teratogenic by the oral and inhalation routes.

#### First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

#### First Aid Procedures - Eyes:

Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.

#### First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

#### First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

#### First Aid Procedures - Notes to Physicians:

Administration of ethanol may counteract the effects of ethylene glycol, such as metabolic acidosis and renal damage.

# First Aid Procedures - Aggravated Medical Conditions:

Individuals with preexisting diseases of the skin, respiratory disorders, or impaired function of the liver/kidneys may have

# BASF

Product ID: NVS 583870

NAPA ANTIFREEZE

Page 4

# SECTION 5 - HEALTH EFFECTS (Cont.)

increased susceptibility to excessive exposures.

First Aid Procedures - Special Precautions: None

#### SECTION 6 - REACTIVITY DATA

Reactivity - Stability Data:

Stable

Reactivity - Incompatability:

No data available.

Reactivity - Conditions/Hazards to Avoid:

No data available.

Reactivity - Hazardous Decomposition/Polymerization:

Hazardous Decomposition Products: No Data Available.

Polymerization: Does not occur.

Reactivity - Corrosive Properties:

Not corrosive.

Reactivity - Oxidizer Properties:

Not an oxidizer

#### SECTION 7 - PERSONAL PROTECTION

Sec. 12.20

·秦田安静的,他是他的"老师"的"人"。 医复数

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ं करोस्य वर्षकः अस्ति । १९०५ वर्षकः स्टब्स्ट्रेस्ट्रेके

Personal Protection - Clothing:

Gloves, coveralls, apron, boots as necessary to minimize contact.

Personal Protection - Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists.

440 TO BEEC



NAPA ANTIFREEZE

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# SECTION 7 - PERSONAL PROTECTION (Cont.)

# Personal Protection - Respiration:

If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator.

Personal Protection - Ventilation:

Use local exhaust to control to recommended P.E.L.

Personal Protection - Explosion Proofing:

None required.

### SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

#### Spill/Leak Procedures - General:

Spills should be contained, solidified and placed in suitable containers for disposal in a licensed facility. This material is regulated by CERCLA ("Superfund").

This material is a CERCLA hazardous substance (ethylene glycol having an RQ of 1 lb). Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush area with water.

#### Spill/Leak Procedures - Waste Disposal:

Incinerate or bury in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

#### Spill/Leak Procedures - Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

#### SECTION 9 - STORAGE AND HANDLING

Storage and Handling - General:

No special requirements needed.

NAPA ANTIFREEZE

Page 6

YES

### SECTION 10A - FEDERAL REGULATORY INFORMATION

TSCA Inventory Status Listed on Inventory:

YES

RCRA Haz. Waste No.:

CERCLA: YES Reportable Qty.: (If YES) 1

#### SECTION 10B - STATE REGULATORY INFORMATION

- L

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State Regulatory Information: (By Component) NJ/PA/MA RTK

107-21-1 CAS #: NAME: ETHYLENE GLYCOL

CAS #: 111-46-6 YES

NAME: DIETHYLENE GLYCOL

CAS #: 7758-11-4 NO

NAME: PHOSPHORIC ACID, DIPOTASS



NAPA ANTIFREEZE

Page 7

#### SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

NONE

DOT Technical Name:

NONE

DOT Primary Hazard Class: DOT Secondary Hazard Class:

NONE

DOT Label Required:

NONE

DOT Placard Required:

DOT Poison Constituent:

NONE

BASF commodity Codes: 332 UN/NA Code: N/A E/R Guide: N/A

Bill of Lading Description:

ANTIFREEZE PREPARATIONS, PROPRIETARY, ETHYLENE GLYCOL BASE

CLASS:

P. G.

SHIPPING NAME:

IATA: NONE N/A

ANTIFREEZE PREPARATIONS, PROPRIETARY, ET

COL BASE

IMO:

NONE

N/A

ANTIFREEZE PREPARATIONS, PROPRIETARY, ET

TDG:

NONE

N/A

ANTIFREEZE PREPARATIONS, PROPRIETARY, ET

COL BASE

NAPA ANTIFREEZE

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SECTION 12 - MANUFACTURER'S INFORMATION

- is a registered trademark of BASF Corporation.
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END OF DATA SHEET





**MOTC0090** 

Revised 28-OCT-1994

Printed 16-NOV-1994

# FLEET HEAVY DUTY MOTOR OIL

#### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

#### # Tradenames and Synonyms

**Product Codes:** 

6210/6211/6220/6230/6240/6244/

6245/6250/6260/6261/6265

Grades:

HD 10W, 20W-20, 30, 40, 50;

HD Supreme 10W-30, 15W-40; 10 TBN 15W-40, 30, 40;

LP

#### Company Identification

MANUFACTURER/DISTRIBUTOR

CONOCO INC.

P.O. BOX 2197 HOUSTON, TX 77252

#### PHONE NUMBERS

Product Information Transport Emergency 1-713-293-5550

CHEMTREC 1-800-424-9300

Medical Emergency

1-800-441-3637

#### COMPOSITION/INFORMATION ON INGREDIENTS

# # Components

| Material                                 | CAS Number % |  |
|------------------------------------------|--------------|--|
| May contain any combination of the follo | wing 60-90   |  |
| base oils:                               |              |  |
| Solvent Refined Dist., Hvy. Paraffinic   | 64741-88-4   |  |
| Solvent Refined Dist., Lt. Paraffinic    | 64741-89-5   |  |
| Solvent Dewaxed Dist., Hvy. Paraffinic   | 64742-65-0   |  |
| Hydrotreated Dist., Hvy. Paraffinic      | 64742-54-7   |  |
| Solvent Refined Residuum                 | 64742-01-4   |  |

| Solvent Dewaxed Residual Oil | 64742-62-7 |      |
|------------------------------|------------|------|
| Hydrotreated Bottoms         | 64742-57-0 |      |
| Ethylene/Propylene Copolymer | 9010-79-1  | 0-20 |
| Zinc Compounds               | 68649-42-3 | 1-3  |
| Metal Sulfonates             |            | 0-11 |
| Proprietary Additives        |            | 0-25 |

#### HAZARDS IDENTIFICATION

Potential Health Effects

#### Substance Information

Primary Routes of Entry: Skin, inhalation

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Manufacturers have not seen allergic reactions to metal sulfonates in workers based on over 40 years of experience. Thus, metal sulfonates would not seem to be a significant health hazard.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

#### "USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

#### Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

#### FIRST AID MEASURES

#### First Aid INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### SKIN CONTACT

Wash thoroughly with soap and water after handling. If irritation develops, consult a physician.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

#### Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

#### FIRE FIGHTING MEASURES

#### Flammable Properties

Flash Point 170 C (338 F) (Minimum)
Method Pensky-Martens Closed Cup - PMCC.

Autoignition 650 F (343 C)

NFPA Classification Class IIIB Combustible Liquid.

#### Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

### Fire Fighting Instructions

Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water may be used to flush spills away from exposures.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

#### **ACCIDENTAL RELEASE MEASURES**

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

#### HANDLING AND STORAGE

# Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a well ventilated place. Store in a cool, dry place. Store away from heat, sparks and flames, oxidizers.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering Controls**

VENTILATION

Normal shop ventilation.

#### Personal Protective Equipment

RESPIRATORY PROTECTION

None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

#### PROTECTIVE GLOVES

Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

EYE PROTECTION

Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT

Coveralls with long sleeves if splashing is probable.

OTHER PRECAUTIONS

Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA)

TLV (ACGIH) 5 mg/m3, 8 Hr. TWA 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3 Notice of Intended Changes (1994-1995)

5 mg/m3, 8 Hr. TWA, severely refined

AEL \* (Du Pont)

5 mg/m3, 8 Hr. TWA

#### PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

**Boiling Point** >520-1200 F (271-649 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Eyaporation Rate Nil

Solubility in Water Insoluble

Odor Mild Petro. Hydrocarbon

Form Liquid

Color Dark Amber to Dark Brown Specific Gravity 0.873-0.896 @ 60 F (16 C)

7.27-7.47 lb/gal @ 60 F (16 C) Density

#### STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Avoid heat, sparks, and flame.

Incompatibility with Other Materials

Incompatible with strong oxidizing materials.

Decomposition

Combustion forms oxides of carbon and may produce small quantities of oxides of nitrogen, phosphorus, sulfur, and zinc.

**Polymerization** 

Polymerization will not occur.

AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

#### TOXICOLOGICAL INFORMATION

#### Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

Animal skin exposure studies show high concentrations of zinc organic phosphates cause testicular atrophy, but this effect appears related to stress from the chemical causing severe skin irritation. Low concentrations of the zinc component, as occurs in lubricant products, would not have caused testicular damage.

"USED" Motor Oil -Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

#### **ECOLOGICAL INFORMATION**

#### Ecotoxicological Information

No specific aquatic data available for this product.

#### **DISPOSAL CONSIDERATIONS**

#### Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

#### Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

#### TRANSPORTATION INFORMATION

#### Shipping Information

DOT Not regulated.

ICAO/IMO Not restricted.

#### REGULATORY INFORMATION

# U.S. Federal Regulations

OSHA HAZARD DETERMINATION

Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA/SUPERFUND** 

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SARA, TITLE III, 302/304
This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

This material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements:

Toxic Chemical(s)

Zinc Compound

#### **TSCA**

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

#### RCRA

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

#### **CLEAN WATER ACT**

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s)
Reportable Quantity

Petroleum Hydrocarbons Film or sheen upon, or discoloration of,

water surface

#### REGULATORY INFORMATION(Continued)

#### State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT This material may contain the following ingredient(s) subject to the Pennsylvania and Community Right to Know Hazardous Substances List.

Ingredient Category

Zinc Compounds Environmental Hazard

Canadian Regulations

This is not a WHMIS Controlled Product.

#### OTHER INFORMATION

# NFPA, NPCA-HMIS

NFPA Rating Health Flammability 0 Reactivity

NPCA-HMIS Rating

Health Flammability 1 0 Reactivity

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS Address

MSDS Administrator Conoco Inc.

PO Box 2197

Houston, TX 77252

Telephone

713/293-5550

# Indicates updated section.

End of MSDS



**Diamond Shamrock** Refining and Marketing Company

MSDS NUMBER:

M7751

MSDS DATE:

06-23-87

PRODUCT NAME: #2 DIESEL FUEL

24 HOUR EMERGENCY PHONE: (512) 641-8800

#### I. PRODUCT IDENTIFICATION

2 HEALTH, 2 FLAMMABILITY, 0 REACTIVITY & (Blank) INSTABILITY based on the "Standard System for the Identific Materials, NFPA No. 704, 1985 Edition Identification of the Fire Hazards of

MANUFACTURER'S NAME AND ADDRESS: Diamond Shamrock Refining and Marketing Company, P.O. Box 696000, San Antonio, Texas 78269-6000

CHEMICAL NAME:

Light hydrocarbon distillates

CAS NUMBER:

68476-34-6

SYNONYMS/COMMON NAMES:

CHEMICAL FORMULA: C5-C16 Hydrocarbons DOT PROPER SHIPPING NAME: Diesel Fuel

DOT HAZARD CLASS: Combustible Liquid

DOT I.D. NUMBER:

NA 1993

HAZARDOUS SUBSTANCE:

NA

#### II. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT

Light hydrocarbon

Blend

HAZARD DATA

PEL = None established TLV = None established

CAS NUMBER 8008-20-6 64741-44-2

100

(See Section V)

64741-59-9

NIOSH has proposed  $100 \text{mg/m}^3$  8hr TWA or  $\sim 14 \text{ppm}$  8hr TWA based on an average molecular weight of 170 for kerosene like fractions. The materials in this product are listed in the TSCA Inventory. Not listed as carcinogenic by IARC, NTP, OSHA, ACGIH.

#### III. PHYSICAL DATA

BOILING POINT @ 760 mm Hg: 340-670°F

VAPOR DENSITY (Air=1): N/A

EVAPORATION RATE (Buac=1): N/A

MELTING POINT: NA

BULK DENSITY AT 20°C: 7.07 1bs/gal

% VOLATILES BY VOL .: 100

SOLUBILITY IN H20 % BY WT: Trace

SPECIFIC GRAVITY (H2O=1) 0.85 API Gravity = 35.0

APPEARANCE AND ODOR: Colorless liquid with aromatic odor; odor threshold ~1ppm and is not an index of exposure

pH: NA

Physical data may vary slightly to meet specifications.

CAS = Chemical Abstract Service Number PEL - OSHA Permissible Exposure Limit

N/A = No relevant information found or not available

TLV - TLV+, ACGIH Threshold Limit Value. Current

NA - Not applicable

This Material Safety Data Sheet was prepared by Diamond Shamrock Relining and Marketing Company on behalf of the above manufacturer in accordance wi 29 CFR 1910 1200 All information, recommendations and suggestions appearing herein concerning this product are based upon tests and data believed to be reliable however, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee expressed or implied is made by Diamond Shamrock as to the effects of such use the results to be obtained or the safety and toxicity of the product nor does Diamond Shamrock assume any liability ensing out of use by others of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations

EL FUEL #2 D PRODUCT NAME:

#### IV. FIRE AND EXPLOSION DATA

FLASH POINT: 150°F AUTOIGNITION TEMPERATURE: FLAMMABLE LIMITS IN AIR, % BY VOLUME- UPPER: 5 LOWER : EXTINGUISHING MEDIA: Dry chemical, foam or carbon dioxide or water

SPECIAL FIRE FIGHTING PROCEDURES: Pressure-demand, self-contained breathing apparatus should be provided for fire fighters in buildings or confined areas where product is stored.

UNUSUAL FIRE AND EXPLOSION HAZARD: Clothing, rags, or similar organic material contaminated with the product and stored in a closed space may undergo spontaneous combustion. Transfer product to and from commonly grounded containers.

#### V. HEALTH HAZARD INFORMATION

HEALTH HAZARD DATA: The major effect of exposure to this product is Central nervous system depression.
MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE:

Conditions which have the same symptoms or effects as stated below. MEDICAL LIMITATION: N/A

- ROUTES OF EXPOSURE
  INHALATION: Irritation of the upper respiratory tract with central nervous system stimulation possibly followed by depression, dizziness, headache, incoordination, anesthesia, coma and respiratory arrest.
- IN CONTACT: Defatting may occur with continued or prolonged contact. Irritation and burning sensation may occur on exposure to SKIN CONTACT: liquid vapor phase.
- SKIN ABSORPTION: Not significant.
- EYE CONTACT: Severe burning sensation with temporary irritation and swelling of lids.
- INGESTION: Irritation of mucous membranes of throat, esophagus and stomach which may result in nausea and vomiting; depression may occur if absorbed. (See Inhalation above.)

EFFECTS OF OVEREXPOSURE

- ACUTE: Central nervous system depression with extreme overexposure; effects may include anesthesia, coma, respiratory arrest, and irregular heart rate. Oxygen deprivation is possible if working in confined spaces.
- HRONIC: Experience has shown no major cumulative or latent effects to have resulted from exposure to this product. (See Health Hazard Data above.) CHRONIC:

- EMERGENCY AND FIRST AID PROCEDURES

  EYES: Object is to flush material out then seek medical attention.

  Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire eye surface. Seek medical attention.
- (IN: Wash contaminated areas with plenty of soap and water. A soothing ointment may be applied to irritated skin after thorough cleansing. Remove contaminated clothing and footwear. Seek medical attention if symptoms result.
- INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. SEEK MEDICAL ATTENTION IMMEDIATELY.
- INGESTION: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. SEEK MEDICAL ATTENTION IMMEDIATELY.
- NOTES TO PHYSICIAN: Gastric lavage only if large quantity has been ingested. Guard against aspiration into lungs which may result in chemical Pneumonitis. Irregular heart beat may occur; use of Adrenalin is not advisable. Treat symptomatically.

PRODUCT NAME: #2 DIESEL FUEL



#### VI. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: Under normal conditions, the material is stable. Avoid sources of ignition such as flames, hot surfaces, electrical or functional sparks, etc.

INCOMPATIBILITY: Avoid contact with strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include carbon monoxide, carbon dioxide and other hydrocarbons.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

#### VII. ENVIRONMENTAL PROCEDURES

PILLS OR RELEASES: If material is spilled or released to the atmosphere, steps should be taken to contain liquids and prevent discharges to streams or sewer systems; and control or stop the loss of volatile materials to the atmosphere. Spills or releases should be reported, if required, to the appropriate local, state SPILLS OR RELEASES: and federal regulatory agencies.

and federal regulatory agencies.
DISPOSAL: Clean-up action should be carefully planned and executed. Shipment, storage, and/or disposal of waste materials are regulated and action to handle or dispose of spilled or released materials must meet all applicable local, state and federal rules and regulations. If any question exists, the appropriate agencies should be contacted to assure proper action being taken. Waste product and contaminated material will be considered a hazardous waste if the flash point is less than 140°F requiring disposal at an approved hazardous waste facility. an approved hazardous waste facility.

storage is preferred. Separate from oxidizing materials. Store in cool, well ventilated area of non-combustible construction away from possible sources of ignition. STORAGE: Protect against physical damage. Outside or

#### VIII. INDUSTRIAL HYGIENE CONTROL MEASURES

NTILATION REQUIREMENTS: Work in well ventilated areas. Special ventilation is not required under normal use. Good engineering controls in high volume uses is required in some localities. VENTILATION REQUIREMENTS:

#### SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY: Respiratory protection is not required under normal use. Use NIOSH/MSHA approved respiratory protection following manufacturer's recommendation where spray, manufacturer's recommendation where spray, mist, or vapor may be generated. Supplied air respiratory protection is required for mist. IDLH areas.

Face shield and goggles or chemical goggles should be worn where mist or spray may be generated.

GLOVES: Impervious gloves should be worn during routine handling of this product.

THER CLOTHING AND EQUIPMENT: Standard work clothing. Shoes contaminated with this product that can not be decontaminated should be discarded. Clothing contaminated with this product should be removed, washed in soap and water and dried before reuse. Contaminated clothing should be stored in well ventilated areas. Shower and eyewash facilities should be accessible. OTHER CLOTHING AND EQUIPMENT:

MONITORING EXPOSURE

No BIOLOGICAL: applicable procedure; breath analysis hydrocarbons has been suggested.

PERSONAL/AREA: Based on similarity to Kerosene, both active and passive monitors employing charcoal absorption followed by gas chromatography. An average molecular weight of 170 has been suggested as the average value to convert the determined weight of suggested as the average value to convert the determined weight of hydrocarbons to ppm. Direct reading indicating tubes are available to evaluate short term exposure.



# Material Safety Data Sheet

HD-5 PROPANE FUEL (ODORIZED)

CPS262200

Page 1 of 8

This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS.

This is a new Material Safety Data Sheet.

#### 1. PRODUCT IDENTIFICATION

#### HD-5 PROPANE FUEL (ODORIZED)

DANGER!

- EXTREMELY FLAMMABLE
- LIQUID CAN CAUSE EYE AND SKIN INJURY
- MAY EXCLUDE OXYGEN AVAILABLE FOR BREATHING
- DETECTION OF LEAK VIA SENSE OF SMELL MAY NOT BE POSSIBLE IF ODORANT HAS DEGRADED. SEE SECTION 6.
- CONTENTS UNDER PRESSURE
- KEEP OUT OF REACH OF CHILDREN

PRODUCT NUMBER(S): CPS262200 WPS-300 PRODUCT INFORMATION: (918)560-4134

Revision Number: 0 Revision Date: 04/28/92 MSDS Number: 004919 NDA - No Data Available NA - Not Applicable

Prepared According to the OSHA Hazard Communication Standard (29 CFR 1910.1200) by the Chevron Environmental Health Center, Inc., P.O. Box 4054, Richmond, CA 94804.

# 2. FIRST AID-EMERGENCY PH. (800)457-2022/(510)233-3737 (24 HR)

#### EYE CONTACT:

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. See a doctor for further treatment as soon as possible.

#### SKIN CONTACT:

Skin contact with the liquid may result in frostbite and burns. Soak contact area in tepid water to alleviate the immediate effects and get medical attention.

#### INHALATION:

If any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

#### INGESTION:

Not expected to be an ingestion problem, no first aid procedures are required.

# 3. IMMEDIATE HEALTH EFFECTS - (ALSO SEE SECTIONS 11 & 12)

#### EYE CONTACT:

The gas phase is not expected to cause eye irritation. However, the liquid can cause frostbite and burns. This hazard evaluation is based on the data from similar materials.

#### SKIN IRRITATION:

The gas is not irritating to the skin. However, skin contact with liquid or solid can cause severe frostbite or burns. This hazard evaluation is based on data from similar materials.

#### DERMAL TOXICITY:

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. This hazard evaluation is based on data from similar materials.

#### RESPIRATORY/INHALATION:

This material can act as a simple asphyxiant by\_displacement of air. Signs and symptoms of the resultant central nervous system effects may include rapid breathing, incoordination, rapid fatigue, excessive salivation, disorientation, headache, nausea and vomiting. Convulsions, loss of consciousness, coma and/or death may occur if exposure to high concentrations continues. Read the Additional Health Data section (12) of this document for more information.

#### INGESTION:

Material is a gas and cannot usually be swallowed.

#### 4. PROTECTIVE EQUIPMENT

#### EYE PROTECTION:

Appropriate eye protection must be worn when working with this material or serious harm can result. Wear chemical goggles or a face shield at all

Revision Number: 0 Revision Date: 04/28/92 MSDS Number: 004919

NDA - No Data Available NA - Not Applicable

times.

#### SKIN PROTECTION:

Do not get on skin or on clothing. Wear protective clothing including gloves when handling.

#### RESPIRATORY PROTECTION:

No special respiratory protection is normally required.

#### VENTILATION:

Use this material only in well ventilated areas.

#### 5. FIRE PROTECTION

FLASH POINT: (CC) <94F (70C) AUTOIGNITION: 450C (842F)

FLAMMABILITY LIMITS (% by volume in air): Lower: 2.1 Upper: 9.5

EXTINGUISHING MEDIA:

Stop flow of gas. CO2 for small fires. Water fog.

NFPA RATINGS: Health 1; Flammability 4; Reactivity 0; Special NDA; (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association or, if applicable, the National Paint and Coating Association, and do not necessarily reflect the hazard evaluation of the Chevron Environmental Health Center. Read the entire document and label before using this product.

#### FIRE FIGHTING PROCEDURES:

This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire document. Petroleum gases are heavier than air and travel along the ground or into drains to possible distant ignition sources, causing an explosive flashback.

#### COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

#### 6. STORAGE, HANDLING, AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

INCOMPATIBILITY:

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May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

#### SPECIAL PRECAUTIONS:

DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Keep container closed. Before entry into confined spaces that may have contained hazardous material, determine concentrations and take appropriate measures for personal protection. Material presents a hazard that may require personal protective equipment for entry. CONTAINER UNDER PRESSURE. Store away from strong oxidizing materials. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate, or store above 120 F.

Special precautions should be taken when entering or handling equipment in this type of gas service because of possible radioactive contamination. All equipment should be checked for radioactivity or opened to the atmosphere and have forced ventilation applied for at least four hours prior to entry or handling. Avoid direct skin contact with any surface. Avoid generation of dust, smoke, fumes, etc. in the work area, or if they cannot be avoided, a tested and certified radionuclide dust respirator should be worn. Smoking, eating, or drinking, should be prohibited when working with the equipment. Employees should wash thoroughly with soap and water and discard contaminated clothing after entering or handling the equipment.

This product has been odorized in order to aid in its detection in case of a leak or accidental discharge. During shipping or storage of an odorized material, alteration of the odorant and subsequent reduction in its effectiveness may occur.

Odorants are reactive. Rust and scale in storage containers and pipes may significantly reduce an odorant's effectiveness. For this reason, storage containers must be free of rust and scale. Whenever an empty cylinder is filled, it must be properly purged and conditioned to remove air and water and to deactivate sites for oxidation of the odorant. Underground pipelines should also be checked periodically for leaks.

Prolonged exposure to an odorant or other strong smells in the environment may reduce an individual's ability to detect the odorant. People with an impaired ability to detect odors due to colds, allergies, smoking, injuries, etc., must be especially cautious.

#### 7. PHYSICAL PROPERTIES

SOLUBILITY: Soluble in alcohol, ether and hydrocarbons; insoluble

in water.

APPEARANCE: Colorless gas or liquid with distinct odor of

commercial natural gas.

BOILING POINT: -44F (-42C)

MELTING POINT: NA EVAPORATION: NDA

SPECIFIC GRAVITY: 0.5 @ 15.6/15.6C. VAPOR PRESSURE: 208 PSI @ 37.8C (Max.).

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PERCENT VOLATILE (VOLUME %): 100% VAPOR DENSITY (AIR=1): 1.6

#### \_8 \_ ENVIRONMENTAL - CONCERNS , -SPILL RESPONSE AND DISPOSAL --

CHEMTREC EMERGENCY PH. (800)424-9300/(202)483-7616 (24 hr) SPILL/LEAK PRECAUTIONS:

Eliminate all sources of ignition in vicinity of spill or released vapor.

If this material is released into a work area, evacuate the area immediately. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions in the Protective Equipment section.

DISPOSAL METHODS:

Allow to evaporate with adequate ventilation.

#### 9. EXPOSURE STANDARDS, REGULATORY LIMITS AND COMPOSITION

#### COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory. This material is classified as a simple asphyxiant. When working with this material, the minimal oxygen content should be 18 percent by volume under normal atmospheric pressure.

The percent compositions are given to allow for the various ranges of the components present in the whole product and may not equal 100%.

#### PERCENT/CAS# COMPONENT/REGULATORY LIMITS

100.0 %

HD-5 PROPANE FUEL (ODORIZED)

#### CONTAINING

> 90.0 %

Asphyxiant ACGIH TLV

1000ppm OSHA TWA

< 10.0 %

ETHANE

PROPANE

CAS74840

CAS74986

Asphyxiant ACGIH TLV

< 5.0 %

PROPYLENE

CAS115071

A toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986 and 40 CFR Part 372.

ACGIH TLV

< 2.5 %

HYDROCARBONS, C4 AND UP

CAS68476448

RADON

Revision Number: 0 Revision Date: 04/28/92 MSDS Number: 004919

#### CAS14859677

#### AND

#### **ODORANT**

TLV - Threshold Limit Value TWA - Time Weighted Average

STEL - Short-term Exposure Limit TPQ - Threshold Planning Quantity

RQ - Reportable Quantity CPS - CUSA Product Code

CC - Chevron Chemical Company CAS - Chemical Abstract Service Number

#### 10. REGULATORY INFORMATION

DOT basic descriptions can vary based on package quantity and may not coincide with international description requirements. Consult the Hazardous Materials Regulations in 49CFR and the appropriate Dangerous Goods Regulations to confirm description applicability to specific shipments.

DOT SHIPPING NAME: LIQUEFIED PETROLEUM GAS

DOT HAZARD CLASS: FLAMMABLE GAS DOT IDENTIFICATION NUMBER: UN1075

SARA 311 CATEGORIES: 1. Immediate (Acute) Health Effects; YES

2. Delayed (Chronic) Health Effects; NO

3. Fire Hazard; YES

4. Sudden Release of Pressure Hazard; YES

5. Reactivity Hazard; NO

The following components of this material are found on the regulatory lists indicated by the number below the component name:

**PROPYLENE** 

is found on lists: 01,02,10,11,13,14,

RADON

is found on lists: 06,

ETHANE

is found on lists: 02,10,11,13,14,

PROPANE

is found on lists: 02,10,11,13,14,17,

#### REGULATORY LISTS SEARCHED:

03=NTP Carcinogen 02=MASS RTK 01=SARA 313 06=IARC Group 1 04=CA Prop. 65 05=MI 406 07=IARC Group 2A 08=IARC Group 2B 09=SARA 302/304 11=NJ RTK 12=CERCLA 302.4 10=PA RTK 15=ACGIH STEL 14=ACGIH TLV 13=MN RTK 16=ACGIH Calculated TLV 17=OSHA TWA 18=OSHA STEL 21=TSCA Sect 4(e) 20=EPA Carcinogen 19=Chevron TLV 22=TSCA Sect 5(a)(e)(f) 23=TSCA Sect 6 24=TSCA Sect 12(b) 26=TSCA Sect 8(d) 28=Canadian WHMIS 25=TSCA Sect 8(a)

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#### 11. PRODUCT TOXICOLOGY DATA

#### EYE IRRITATION:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### SKIN IRRITATION:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### DERMAL TOXICITY:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### RESPIRATORY/INHALATION:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### INCESTIONS

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### 12. ADDITIONAL HEALTH DATA

#### ADDITIONAL HEALTH DATA COMMENT:

This product may contain detectable but varying quantities of the naturally occurring radioactive substance radon 222. The amount in the gas itself is not hazardous, but since radon rapidly decays (t1/2 = 3.82 days) to form other radioactive elements including lead 210, polonium 210, and bismuth 210, equipment may be radioactive. The radon daughters are solids and therefore may attach to dust particles or form films and sludges in equipment. Inhalation, ingestion or skin contact with radon daughters can lead to the deposition of radioactive material in the lungs, bone, blood forming organs, intestinal tract, kidney, and colon. Occupational exposure to radon and radon daughters has been associated with an increased risk of lung cancer in underground uranium miners. Follow the Special Precautions contained in this document.

This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.

This product contains isobutane. Isobutane has been shown to increase airway resistance by bronchioconstriction and decrease pulmonary compliance and tidal volume (difficulty in breathing). Air containing 27% isobutane was found to decrease respiratory rate and proved to be fatal to rats.

Delicities Patrick Office Work with the control

Revision Number: 0 Revision Date: 04/28/92 MSDS Number: 004919

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Revision Number: 0 Revision Date: 04/28/92 MSDS Number: 004919 NDA - No Data Available NA - Not Applicable





#### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Street and Number Star Rt. #An Liano Grande Road, City Hobbs, 74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                  | in                                      | ) Narroqu   | Franc    | well                                             | er o        | (A) Owne                                         |             |              |          |                                                  | ction 1    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-----------------------------------------|-------------|----------|--------------------------------------------------|-------------|--------------------------------------------------|-------------|--------------|----------|--------------------------------------------------|------------|
| Well was drilled under Permit No. L-6759                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | ad,              | o Grande Road                           | "A" LLan    | Starl    | her                                              | ı N         | Street and                                       | ļ           |              |          |                                                  |            |
| Well was drilled under Permit No. L-6759                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .co. 8821   | New Mexico       | State _                                 | 13/11/a     | 1.2+     | bs, 7                                            | Н           | City                                             | - 1         |              |          |                                                  |            |
| Way    |             |                  |                                         |             |          |                                                  |             |                                                  |             |              | ├        |                                                  |            |
| (B) Drilling Contractor GLasspoole W.W. Serv. License No. M. Street and Number. P.O. Box 52.  (City Hobbs. State wew Mexico Drilling was commenced 3-10- 16  Drilling was commenced 3-12- 16  Prilling was completed 3-12- 16  Drilling was completed 3-12- 16  Depth to water upon completion 15  Description of Water-Bearing Formation  Prom To Peet Prom Soft.  Bection 1 Description of Water-Bearing Formation  Perforations  RECORD OF CASING  Dia Pounds In Depth Top Bottom Feet Type Shoe From To  6-5/8 Welded O 100 None 80 100  Section 4 RECORD OF MUDDING AND CEMENTING  Depth in Feet Dlameter Tons No. Sacks of Cement Methods Used  RECORD OF Plugging Contractor License No. State  Section 5 PLUGGING RECORD  License No. State  Creent Plugging method used Type of roughage  Plugging method used Tons of Roughage used Type of roughage  Plugging approved by: Cement Plugs were placed at follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                  |                                         |             |          |                                                  |             |                                                  | - 1         |              |          |                                                  |            |
| Street and Number P.O. Box 52.  City Hobbs, State wsw Mexico Drilling was commenced 3-10- Drilling was commenced 3-10- Drilling was commenced 3-10- Drilling was completed 3-12-  State whether well is shallow or artesian Shallow Depth to water upon completion is section 2  PRINCIPAL WATER-SEARING STRATA  No. Depth in Feet From To Thickness in Feet Description of Water-Bearing Formation  RECORD OF CASING  Brown Soft.  Section 3  RECORD OF CASING  Depth in Feet In Type Shoe From To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                  |                                         |             |          |                                                  |             |                                                  |             |              | ┼        |                                                  |            |
| City Hobbs State wew Mexico Drilling was commenced 3-10- 16 Drilling was completed 3-12- 16 City Hobbs State wew Mexico Drilling was commenced 3-10- 16 Drilling was completed 3-12- 16 City Hobbs State were Mexico Drilling was completed 3-12- 16 City Hobbs State were Mexico Drilling was completed 3-12- 16 City Hobbs State were Mexico Drilling was completed 3-12- 16 City Hobbs State were Mexico Drilling was completed 3-12- 16 City Hobbs State were Mexico Drilling was completed 3-12- 16 City Hobbs State were Mexico Drilling was completed 3-12- 16 City Hobbs State were Mexico Drilling was commenced 3-10- 16 City Hobbs State were Mexico Drilling was commenced 3-10- 16 City Hobbs State were Mexico State were Mexico State were Mexico State were Mexico Total depth of well Wixix 100 Depth in Feet From To Thickness in Shallow Depth of Water-Bearing Formation Feet Section 3  RECORD OF CASING  RECORD OF CASING  Perforations From To Top Bottom Feet Type Shoe From To Section 4  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay Cement From To Hole in in Clay Cement Tons Of Plugging Contractor. City State Consort Plugging Contractor. City State Consort Clay used Type of roughage Comment Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                  |                                         |             |          |                                                  |             |                                                  |             |              |          |                                                  | -          |
| Drilling was commenced 3-10- 16 Drilling was completed 3-12- 16 Drilling was completed a follow.                                                                                                                                                                                               | o. 88240    | wew Mexico.      | State                                   |             |          | Hobbs                                            |             | City                                             |             | _            | <u> </u> |                                                  |            |
| Pilling was completed 3-12-   16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10 71       | ~ 10             |                                         | -10-        | д        | ommer                                            | use         | Drilling u                                       | l           |              |          |                                                  |            |
| Clear of \$40 acres     Clear of \$40 acres     Clear of casing in feet above sea level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 71       | 10               |                                         | -12-        | •        | mnlete                                           | 700         | Drilling w                                       |             | 包            |          |                                                  | ŀ          |
| tate whether well is shallow or artesian Shallow Depth to water upon completion 15 ection 2 PRINCIPAL WATER-BEARING STRATA  No. Depth in Feet From To Feet Thickness in Peet Too Water-Bearing Formation  1 1 10 100 SC-5 Water-Sand Brown Soft.  2 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                  |                                         |             |          |                                                  |             | . –                                              |             |              |          |                                                  |            |
| tate whether well is shallow or artesian Shallow Depth to water upon completion 15 ection 2 PRINCIPAL WATER-BEARING STRATA  No. Depth in Feet From To Feet Thickness in Feet Too Water-Bearing Formation  1 1 10 100 SC-S Water-Sand Brown Soft.  2 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ft.         | KKXXX 100 f      | oth of well.                            | _Total dep  |          | <u>-</u> L                                       | a le        | t above se                                       | in fee      | casing i     | of o     | at top                                           | levation   |
| No.   Depth in Feet   Thickness in From   To   Feet   Watter—Sand   Brown   Soft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ft.         | pletion 45 f     | er upon compl                           | pth to wa   |          | allow                                            |             | r artesian.                                      | low o       | is shall     | well     | ether v                                          | tate wh    |
| No.   Depth in Feet   Thickness in   Peet   Description of Water-Bearing Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                  |                                         | CTDATA      | DEADII   | I WAT                                            |             | DDIN                                             |             |              |          |                                                  | 42 0       |
| No. From To Feet Description of Water-Beating Formation    1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                  |                                         | SIRAIA      | -DEAKII  | LWAI                                             | Cir         |                                                  |             |              |          |                                                  | ection 2   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | ation            | -Bearing Formati                        | on of Water | Desc     |                                                  | l           |                                                  | Th          |              | h in     |                                                  | No         |
| RECORD OF CASING  Perforations Threads in Top Bottom Feet Type Shoe Perforations From To  Bection 4 RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay Cement Methods Used  RECORD OF MUDDING AND CEMENTING  PLUGGING RECORD  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Clay Cement Methods Used  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay Cement Methods Used  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Clay State Section 5  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay State Section 5  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay State Section 5  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay State Section 5  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay State Section 5  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay State Section 5  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Section 5  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Section 5  RECORD OF MUDDING AND CEMENTING  Depth in Feet Type Shoe Perforations  Tons Of Roughage used Type of roughage State Section 5  Diagram Section 5  RECORD OF CASING  Tons Of Roughage used Type of roughage State Section 5  Diagram Section 5  RECORD OF CASING  From Tons Of Roughage used Type of roughage State Section 5  Diagram Section 5  RECORD OF CASING  Feet Type Shoe Perforations  Tons Of Roughage used Type of roughage State Section 5  Diagram Section 5  RECORD OF CASING  Feet Type Shoe Perforations  From Tons Of Roughage used Type of roughage State Section 5  Diagram Section 5  RECORD OF CASING  Feet Type Shoe Perforations  Tons Of Roughage used Type of roughage State Section 5  RECORD OF CASING  RECORD OF CASING  Feet Type Shoe Perforations  From Tons Of Roughage used Type of roughage State Section 5  RECORD OF CASING  RECORD O |             |                  |                                         |             |          |                                                  | _           |                                                  | <del></del> |              |          |                                                  |            |
| RECORD OF CASING    Dia   Pounds in.   Threads in.   Top   Eottom   Feet   Type Shoe   Perforations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Soft.            | Brown                                   |             | Sand     | Wate                                             | _           | SF. 95                                           | -           | 100          |          | 40                                               |            |
| RECORD OF CASING    Dia   Pounds   Threads   Depth   Feet   Type Shoe   Perforations   Top   Bottom   To   Top   Bottom   Top   Top  |             |                  |                                         |             |          |                                                  | <u></u>     |                                                  |             |              |          |                                                  | 2          |
| RECORD OF CASING    Dia   Pounds   Threads   Depth   Top   Bottom   Feet   Type Shoe   Perforations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                  |                                         |             |          |                                                  | L           |                                                  |             |              |          |                                                  | 3          |
| RECORD OF CASING    Dia   Pounds   Threads   Depth   Top   Bottom   Feet   Type Shoe   From   To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                  |                                         |             |          |                                                  |             |                                                  |             |              | 1        |                                                  | 4          |
| Dia rin. Threads in Top Bottom Feet Type Shoe From To  S-5/8 Welded O 100 100 None 80 100  RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole in in. Clay Cement Methods Used  Perforations From To Hole in in. Clay Cement Methods Used  Perforations From Methods Used  Perforations From To Solution To Methods Used  RECORD OF MUDDING AND CEMENTING  Depth in Feet Clay No. Sacks of Cement Methods Used  PLUGGING RECORD  License No. State From of Plugging Contractor City State From Solution Tops of Roughage used Type of roughage  Lugging method used Date Plugged  Lugging approved by: Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                  |                                         |             |          |                                                  | Г           |                                                  | 1           |              | 十        |                                                  | 5          |
| Dia rin. Threads in Top Bottom Feet Type Shoe From To  S-5/8 Welded O 100 100 None 80 100  RECORD OF MUDDING AND CEMENTING  Depth in Feet Tons Clay Cement Methods Used  Rection 5 PLUGGING RECORD  ame of Plugging Contractor City State cons of Clay used Type of roughage lugging method used Lugging approved by:  Cement Top Bottom Feet Tons To State Type Shoe Perforations  Perforations Perforations  From To To None 80 100  RECORD OF MUDDING AND CEMENTING  Methods Used  Perforations  From To  To State Type Shoe Perforations  From To To  Tons Of Roughage used Type of roughage lugging method used Tons of Roughage used Date Plugged  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                  | *************************************** |             |          |                                                  | ·           |                                                  | <u></u>     |              |          |                                                  | <u>'</u> - |
| Top Bottom Feet Type Shoe From To  S-5/8 Welded O 100 100 None 80 100  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Hole in in. Clay Cement Methods Used  ST PLUGGING RECORD  ame of Plugging Contractor License No.  reet and Number City State  pons of Clay used Tons of Roughage used Type of roughage lugging method used  Date Plugged 1  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                                         |             | F CASI   | CORD                                             |             | ,                                                |             |              |          |                                                  | ection 3   |
| RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay Cement Methods Used  Rection 5  PLUGGING RECORD  are of Plugging Contractor License No.  recet and Number City State  pons of Clay used Tons of Roughage used Type of roughage lugging approved by:  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                  |                                         | pe Shoe     | eet      |                                                  |             | I                                                |             |              |          |                                                  |            |
| RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Clay No. Sacks of Cement Methods Used  8n  PLUGGING RECORD  are of Plugging Contractor License No.  reet and Number City State  ons of Clay used Tons of Roughage used Type of roughage  lugging approved by:  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | To               |                                         |             |          | om                                               | В           | Тор                                              |             |              |          | It.                                              |            |
| Depth in Feet Diameter Tons Clay No. Sacks of Cement Methods Used    Rn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | 100              | 80                                      | Vone        | 100      | 0                                                | ]           | 0                                                | led         | Weld         |          |                                                  | 5/8        |
| Depth in Feet Diameter From To Diameter Hole in in. Clay Cement Methods Used  8n  PLUGGING RECORD  ame of Plugging Contractor License No.  creet and Number City State  ons of Clay used Tons of Roughage used Type of roughage lugging method used  lugging approved by:  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                                         |             |          |                                                  |             | ļ                                                |             | ļ            |          |                                                  |            |
| Depth in Feet Diameter Tons Clay No. Sacks of Cement Methods Used    Rn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                  |                                         |             |          |                                                  | ــ          | <b> </b>                                         |             |              |          |                                                  |            |
| Depth in Feet Diameter Tons No. Sacks of Cement Methods Used    Rn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                  |                                         |             |          |                                                  |             | <u> </u>                                         |             | <u> </u>     |          |                                                  |            |
| Depth in Feet Diameter Tons No. Sacks of Cement Methods Used    Rn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                  |                                         | MENTING     | G ANI    | MUDE                                             | ים כ        | RECOR                                            |             |              |          |                                                  | ation 4    |
| From To Hole in in. Clay Cement Methods Used    8n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                  | *                                       |             |          |                                                  |             | 1                                                |             | l Dia-       | .4       |                                                  |            |
| PLUGGING RECORD  ame of Plugging Contractor  treet and Number  City  State  Tons of Roughage used  Type of roughage  lugging method used  Date Plugged  Iugging approved by:  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | :d               | Methods Used                            |             | or       |                                                  |             |                                                  |             |              |          |                                                  |            |
| PLUGGING RECORD  ame of Plugging Contractor.  License No.  reet and Number.  City.  State  ons of Clay used.  Tons of Roughage used.  Type of roughage.  lugging method used.  Date Plugged.  1  License No.  State  Type of roughage.  1  License No.  City.  State  Lugging method used.  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <del></del> |                  |                                         |             |          |                                                  | +           | <del>                                     </del> |             | 0,0          |          | <del>                                     </del> |            |
| PLUGGING RECORD  ame of Plugging Contractor.  License No.  reet and Number.  City.  State  ons of Clay used.  Tons of Roughage used.  Type of roughage.  ugging method used.  License No.  Date Plugged.  1  ugging approved by:  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                  |                                         |             |          |                                                  | +           | <u> </u>                                         |             | 0"           |          | <del> </del>                                     |            |
| PLUGGING RECORD  ame of Plugging Contractor  creet and Number  City  State  ons of Clay used  Tons of Roughage used  Type of roughage  lugging method used  Date Plugged  1  lugging approved by:  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <del></del> |                  |                                         |             |          | <u> </u>                                         | $\dashv$    | <u> </u>                                         |             | <u> </u>     |          | ├──                                              |            |
| PLUGGING RECORD  ame of Plugging Contractor  treet and Number  City  State  Tons of Roughage used  Type of roughage  lugging method used  Date Plugged  1 lugging approved by:  Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                  |                                         |             |          |                                                  | $\dashv$    | <del> </del>                                     |             | <del> </del> | _        | <del> </del>                                     |            |
| ame of Plugging Contractor.  City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ·-···       |                  |                                         |             | !_       |                                                  | ,           | <u> </u>                                         |             | <u> </u>     |          | . 1                                              |            |
| treet and Number City State ons of Clay used Tons of Roughage used Type of roughage lugging method used Date Plugged 1 lugging approved by: Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                  |                                         |             | RECO     | LUGGI                                            |             |                                                  |             | 4            |          |                                                  | ection 5   |
| reet and Number City State ons of Clay used Tons of Roughage used Type of roughage lugging method used Date Plugged 1 lugging approved by: Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | No.              | License N                               |             |          |                                                  |             |                                                  | ctor        | Contra       | ing      | Plugg                                            | ame of     |
| ugging approved by:  Tons of Roughage usedType of roughage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                  |                                         |             |          |                                                  |             |                                                  |             |              |          | -                                                |            |
| lugging method used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                  |                                         |             |          |                                                  |             |                                                  |             |              |          |                                                  |            |
| lugging approved by: Cement Plugs were placed as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | _                |                                         |             |          | age an                                           |             |                                                  |             |              |          |                                                  |            |
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### Appendix C

Spill / Leak Contingency Plans

# SPILL RESPONSE / CONTINGENCY PLAN

#### prepared for

#### Pate Trucking Company, Inc.

for the facility located at 3800 South Eunice Highway Hobbs, New Mexico 88240

Prepared by:

F. Wesley Root

3624 West Casa Verde Hobbs, New Mexico 88241 (505) 392-8844

May 21, 1996

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Pate Trucking Company, Inc.

#### I. Preventive Maintenance

Normal maintenance for the material storage areas located at the Pate Trucking Facility will be performed by facility employees under the supervision of the appropriate manager. Facility personnel are responsible for maintaining an environmentally-sound site. Minor spills that do not adversely impact the environment will be remediated immediately upon detection. The condition of containers storing chemicals will be evaluated and corrected as needed. The following activities will be performed at a minimum:

#### A. General Maintenance

- 1. Hoses, connections and associated equipment will be maintained in good working condition. When not in use, these devices will be stored at the site in a controlled area.
- 2. All chemicals used during routine maintenance activities will be kept in closed containers when not in use. The containers must be properly labeled, maintained, and stored in their designated area within the shop building when not in use.
- 3. No chemicals will be stored on exposed soils. All chemical containers (drums etc.) that are temporarily stored pending transport to the job site will be stored on the temporary chemical storage pad. All containers must be closed, properly labeled and maintained.
- 4. All Pate Trucking personnel are is responsible for maintaining a clean working environment. Spills are to be contained and not released to the environment. The supervisor of each operating shift/crew will inspect and document conditions at the end of each work day.
- 5. All valves to truck mounted containers must be kept closed at all times when not in use.
- 6. Remediation of minor spills resulting from normal facility operations which pose no threat to facility employees or the environment will be performed immediately upon detection.
- 7. Replacement and repair of leaking fittings or valves will be performed as part of normal facility maintenance.

#### B. Aboveground Storage Tanks (ASTs)

- 1. Perform a weekly visual inspection of the ASTs and secondary containment areas for evidence of leaks/spills. Hoses, valves, and associated equipment will be inspected for corrosion/leaks and maintained in good working condition. The secondary containment liner will be inspected for rips or tears and replaced if necessary.
- 2. No free-standing liquids will be allowed to collect in the secondary containment area. Should an accumulation of free-standing liquids or a spill/release occur, the personnel discovering the release will notify his first line supervisor.
- 3. The first line supervisor will notify the Qualified Individual or his designee who will activate the necessary response team personnel to characterize, repair and contain the release.
- 4. The Qualified Individual or his designee will notify all appropriate federal, state, and local agencies of the release. The Qualified Individual will further contact outside contractors as needed and coordinate all required or directed spill response activities.
- 5. Once contained, under no circumstances will the release be remediated prior to:
  - a. Waste characterization either by process knowledge or RCRA laboratory analysis has been performed.
  - b. Approval of a work plan describing the clean-up activities has been received from the appropriate regulatory agency or agencies.

#### C. Fish Pond

- 1. Perform a weekly visual inspection of the earthen berm surrounding the pond.

  Inspect the berm for integrity and maintain the berm at a minimum height of two feet above ground surface to ensure no surface water runoff or spills can enter the impoundment.
- 2. Perform a weekly visual inspection of the surface water of the pound for evidence of a hydrocarbon sheen, dead fish, stressed vegetation, or other signs of adverse environmental impact.
- 3. Should evidence of adverse environmental impact be identified or the pond becomes contaminated by a spill/release, the personnel discovering the release will notify his first line supervisor.

- 4. The first line supervisor will notify the Qualified Individual or his designee who will activate the necessary response team personnel to characterize, and contain the extent of impact.
- 5. The Qualified Individual or his designee will notify all appropriate federal, state, and local agencies of the contamination. The Qualified Individual will further contact outside contractors as needed and coordinate all required or directed spill response activities.
- 6. Once contained, under no circumstances will the release be remediated prior to:
  - a. Waste characterization either by process knowledge or RCRA laboratory analysis has been performed.
  - b. Approval of a work plan describing the clean-up activities has been received from the appropriate regulatory agency or agencies.

#### D. Below Grade Sump

- 1. The primary purpose of the below grade sump in the maintenance building is to provide access to the underside of trucks and other wheel mounted equipment. No motor oils, antifreeze, solvents, or other liquids are to be allowed to collect in the sump. All fluids used and any wastes generated during maintenance activities will be kept stored in containers supplied for that purpose.
- 2. Perform a weekly visual inspection of the sump for integrity, free standing liquids, sludge, or evidence of a chemical release into the sump.
- 3. Should evidence of adverse environmental impact be identified or an accumulation of liguids/sludge collect in the sump, the personnel discovering the release will notify his first line supervisor.
- 4. The first line supervisor will notify the Qualified Individual or his designee who will arrange for RCRA Profile analysis and disposal in accordance with New Mexico Oil Conservation Division regulations.

Pate Trucking Company, Inc.

#### II. Pollution Incidents

The facility shall maintain a record of pollution incidents. The record will include the data and nature of the incident, internal/external notifications made (including follow-up written reports), and actions taken to correct the problem. The records will be kept on file at the facility.

#### A. Notification Procedures

Pate Trucking will provide the name and telephone number of the qualified individual to contact in the event of a spill/leak that could potentially have an adverse impact to the environment and describe a communication network of response telephone lists to identify those parties (i.e. federal, state, and local officials, contractors, and personnel) who must be immediately contacted in the event of a discharge into the environment.

The qualified individual is an English speaking representative of Pate Trucking, available on a 24-hour basis, with full authority to activate and contract with required spill removal organizations, activate personnel and equipment as needed, act as the company liaison with regulatory authorities, and obligate any funds required to carry out all required or directed response activities.

Qualified Individual: Mr. Gary Reid

Office 505-397-6264

General Manager

Mobile 505-397-9536

Home 505-393-4866

#### B. Checklist of Notifications

This Checklist of Notifications is listed in order of priority for the qualified individual to follow and thus establish a communication network. The Qualified Individual or responsible employee will make a determination of the severity of the release event and decide the appropriate civil authorities, businesses, and regulatory agencies to notify. Our first responsibility is to protect personnel, then property and the environment.

- 1. Notify Company Supervisor/Qualified Individual
- 2. Notify Civil Authorities
- 3. Notify other effected businesses (pipelines, utilities, etc.)
- 4. Notify Regulatory Agencies (State & Federal)

#### C. <u>Notification List for the Hobbs Pate Trucking Facility</u>

#### **Civil Authorities**

| 1.         | New Mexico Highway Patrol Department                                           | 505-392-5588                 |
|------------|--------------------------------------------------------------------------------|------------------------------|
| 2.         | Sheriff                                                                        | 911                          |
| 3.         | Hospital                                                                       | 911                          |
| 4.         | Fire Department                                                                | 911                          |
| 5.         | Hobbs Water Utilities                                                          | 505-397-9314                 |
| 6.         | Hobbs Gas Company                                                              | 505-393-5105                 |
| Regulatory | Agencies                                                                       |                              |
| 1.         | New Mexico Oil Conservation Division Environmental Engineer <u>Wayne Price</u> | 505-393-6161                 |
| 2.         | New Mexico Environmental Department                                            | 505-827-9392                 |
| 3.         | EPA Region 6<br>On-Scene-Coordinator (OSC) <u>Don Smith</u>                    | 214-655-6489                 |
| 4.         | Department of Transportation (DOT)                                             | 800-424-8802                 |
| 5.         | National Response Center                                                       | 800-424-8802<br>202-267-2675 |

#### D. New Mexico Oil Conservation Division Reporting Requirements

In addition to the above listed notifications, the Pate Trucking Facility is subject to notification and reporting requirements of the New Mexico Oil Conservation Division.

Report all fires, breaks, leaks, or spills to:

- 1. New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division, Environmental Section Santa Fe, New Mexico 87504-2088 505-827-5800
- New Mexico Oil Conservation Division
   District I
   Hobbs, New Mexico
   505 393-6161

The above should be notified as soon as possible after discovering the incident by telephone or in person. A written report of the incident (in duplicate) must be forwarded to the Hobbs District I Office within 10 days of the discovery of the incident.

All verbal and written reports shall include:

- 1. Location of the incident by quarter, quarter of section, township, and range.
  The Pate Trucking Facility is located in the
- 2. The distance and direction from the nearest town or prominent landmark so that the exact location of the incident can be readily located on the ground.
- 3. A description of the nature and quantity of the loss.
- 4. The general conditions at the site to include precipitation, temperature, and soil conditions.
- 5. A description of the actions that have been and/or being performed to remedy the situation.

Pate Trucking Company, Inc.

#### III. Training Procedures

All Pate Trucking Company employees are required to complete supervised training and have a through knowledge of the Spill Response / Contingency Plan. Training includes job safety analysis, hazardous communication, and hazardous material training. Ongoing training includes classes related to the employee's job and monthly safety meetings that cover topics listed in the published yearly training program. It is the company policy for supervisors as well as employees to undergo these training programs. Through yearly evaluations, the company reviews the work performed by operating personnel and determines the effectiveness of the training program. Periodically, appropriate changes are made in the training program to correct deficiencies and improve employee performance. Records of training are located in the Pate Trucking Company Office.

## Appendix D Water Well Records

## STAT NGINEER OFFICE WELL RECORD

EIELD GR LOG

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

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| <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11                                               |                 | <u>!</u>    |                                                    |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                               | · ** · · · · · · · · · · · · · · · · · |              |          |
| ection 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                                                |                 |             |                                                    | RECOR                     | D OF CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SING                                        |                                               |                                        |              |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | h                                                | I               | de l        | De                                                 | pth                       | Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Type Shoe                                   | ĺ                                             | Perfo                                  | rations      |          |
| Dia<br>in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Pounds<br>ft.                                    | Threa           |             | Тор                                                | Bottom                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Type Shoe                                   | Fron                                          | n                                      | To           |          |
| in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  | į.              |             | Top                                                | Bottom / 00               | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | none                                        | From                                          |                                        | / O          |          |
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| in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  | in              |             |                                                    |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             | <b></b>                                       |                                        | <del> </del> |          |
| in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  | in              |             |                                                    |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             | <b></b>                                       |                                        | <del> </del> |          |
| in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ft                                               | in              |             | ι                                                  | 100                       | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             | <b></b>                                       |                                        | <del> </del> |          |
| in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ft                                               | in              | ded         | ι                                                  | 100                       | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | none                                        | 7.                                            | >                                      | <del> </del> |          |
| in. 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ft.                                              | in<br>Wele      | ded         | RECOR                                              | 100                       | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | none                                        | <b></b>                                       | >                                      | <del> </del> |          |
| in. 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ft.                                              | in well         | ded         | RECOR Tons                                         | D OF MUL                  | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | none                                        | 7.                                            | >                                      | <del> </del> |          |
| in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ft.                                              | in well         | ded         | RECOR Tons                                         | D OF MUL                  | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | none                                        | 7.                                            | >                                      | <del> </del> |          |
| in. 65- ection 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ft.                                              | in well         | ded         | RECOR Tons                                         | D OF MUL                  | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | none                                        | 7.                                            | >                                      | <del> </del> |          |
| in. 65- ection 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ft.                                              | in well         | ded         | RECOR Tons                                         | D OF MUL                  | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | none                                        | 7.                                            | >                                      | <del> </del> |          |
| in. 65- ection 4 Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ft.                                              | in well         | ded         | RECOR Tons                                         | D OF MUE No. Sa Cen       | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mone.                                       | 7.                                            | >                                      | <del> </del> |          |
| ection 4 Depth From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | in Feet To                                       | Diame Hole in   | eter in.    | RECOR<br>Tons<br>Clay                              | D OF MULI                 | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mone.  ID CEMENTING  ORD                    | Methods                                       | Used                                   | / 00         |          |
| ection 4 Depth From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | in Feet To                                       | Diame Hole in   | eter in.    | RECOR<br>Tons<br>Clay                              | D OF MULI                 | DDING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mone.  ID CEMENTING  ORD                    | Methods                                       | Used                                   | / 00         |          |
| ection 4 Depth From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ft.  In Feet  To  Plugging and Number            | Diame Hole in   | eter in.    | RECOR<br>Tons<br>Clay                              | D OF MUE No. Sa Cerr      | DDING ANDRESS OF INCRESS OF INCRE | Mone.  ID CEMENTING  ORD                    | Methods  Licer State                          | Used                                   | 100          |          |
| in.  65  Coction 4  Depth From  ction 5  ame of reet arms of 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ft.  in Feet  To  Plugging and Number Clay used. | Diame Hole in   | eter in.    | RECOR Tons Clay                                    | D OF MUE No. Sa Cem PLUGG | DDING AN cks of leent  GING REC  City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mone  ID CEMENTING  ORD                     | Methods  Licer State                          | Used used use No                       | 100          |          |
| ction 4 Depth From  ction 5 ame of reet and of the sugging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ft.  in Feet  To  Plugging and Number Clay used. | Diame Hole in   | eter in.    | RECOR Tons Clay                                    | D OF MUE No. Sa Cem PLUGG | DDING AN cks of leent  GING REC  City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ORD Ty                                      | Methods  Licer State pe of roug               | Used  used  hase No                    |              |          |
| ection 4 Depth From ection 5 ame of reet an ons of (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Plugging ad Number Clay used method us           | Diame Hole in 7 | eter in.    | RECOR Tons Clay                                    | D OF MUE No. Sa Cerr      | DDING AN cks of leent  GING REC  City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ORD  Typ  Date Plu  Cement Plug  Depth of P | Methods  Licer State pe of rougged gs were pl | Used  Used  phage  aced as             |              | 19       |
| ection 4 Depth From ection 5 ame of reet an ons of (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Plugging and Number Clay used method us approved | Diame Hole in 7 | eter<br>in. | RECOR Tons Clay  Tons of R                         | PLUGG                     | DDING AN cks of hent  City_used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ORD  Typ  Date Plu  Cement Plug  Depth of P | Licer State pe of rougged gs were pl          | Used  Used  phage  aced as             | follows:     | 19       |
| ection 4 Depth From ection 5 ame of reet an ons of (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Plugging ad Number Clay used method us           | Diame Hole in 7 | eter<br>in. | RECOR Tons Clay  Tons of R  Basin Sup              | PLUGG                     | DDING AN cks of hent  City_used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ORD  Typ  Date Plu  Cement Plug  Depth of P | Methods  Licer State pe of rougged gs were pl | Used  Used  phage  aced as             | follows:     | 19       |
| ection 4  Depth From  ection 5  ame of creet an ons of (dugging dugging duggin | Plugging ad Number Clay used method us approved  | Diame Hole in 7 | eter<br>in. | RECOR Tons Clay  Tons of R                         | PLUGG                     | DDING AN cks of hent  City_used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ORD  Typ  Date Plu  Cement Plug  Depth of P | Methods  Licer State pe of rougged gs were pl | Used  Used  phage  aced as             | follows:     | 19       |
| oction 4 Depth From ction 5 ame of reet an ons of (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Plugging and Number Clay used method us approved | Diame Hole in 7 | ter in.     | RECOR Tons Clay  Tons of R  Basin Sup              | PLUGG                     | DDING AN cks of hent  City_used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ORD  Typ  Date Plu  Cement Plug  Depth of P | Methods  Licer State pe of rougged gs were pl | Used  Used  phage  aced as             | follows:     | 19       |

They we in the

| A) Owner of           | well B                      | obby Tov                              | vnsend        | 200               |              |                 | 0             | wner's Wel                            | li No        |                    |
|-----------------------|-----------------------------|---------------------------------------|---------------|-------------------|--------------|-----------------|---------------|---------------------------------------|--------------|--------------------|
| Street or<br>City and | Post Office Ac<br>State Hob | bs. New                               | Mexico        | 8824              | 10           |                 |               |                                       |              |                    |
|                       | l under Permit              |                                       |               |                   |              | is located      | in the:       |                                       |              |                    |
| a                     | _ ¼ ½                       | SE v S                                | SE 4 of Se    | ection]           | 15 To        | wnship _        | 195           | Range                                 | 38E          | N.M.P.M.           |
|                       | No                          |                                       |               |                   |              | •               |               | -                                     |              |                    |
|                       |                             |                                       |               |                   |              |                 |               |                                       |              |                    |
| c. Lot N<br>Subdi     | o<br>vision, recorde        | of Block No.                          | Lea           | °                 | the<br>Count | y.              |               |                                       | 71.00        |                    |
| d. X=                 |                             | _ feet, Y=                            |               | fee               | et, N.M. C   | oordinate       | System        |                                       |              | Zone in            |
|                       |                             |                                       | _             |                   |              |                 |               |                                       |              | Grant.             |
| •                     | Contractor                  |                                       |               |                   |              |                 |               |                                       |              |                    |
| ddress                | P.O. Bo                     | x 637, I                              | Hobbs. N      | lew Mex           | xico         | 8824            | 0             |                                       |              |                    |
| rilling Began         | 4/11/7                      | 5 Con                                 | npleted       | 4/12/             | ∠75_ typ     | e tools         | Cable         | S                                     | ize of hole_ | 8_in.              |
| levation of la        | nd surface or _             |                                       |               | a                 | t well is    |                 | ft. Total d   | epth of we                            | 10           | <u> </u>           |
| ompleted wel          | lis 🖾 s                     | thallow 🗆                             | artesian.     |                   | Dept         | h to water      | r upon comple | tion of we                            | :11          | ft.                |
|                       |                             | Se                                    | ction 2. PRIN | CIPAL W           | ATER-BE.     | ARING ST        | ΓRATA         |                                       |              |                    |
| <del>-</del>          | in Feet                     | Thicknes                              |               | Description       | n of Water   | -Bearing F      | ormation      | (                                     | Estimated    |                    |
| From                  | То                          | 1                                     |               |                   |              |                 |               |                                       | Sarons por   |                    |
| 47                    | 101                         | 54                                    |               |                   | <del></del>  |                 |               | -+-                                   |              |                    |
|                       |                             |                                       |               |                   | <del></del>  | . <u> </u>      |               |                                       |              |                    |
|                       |                             |                                       |               |                   |              |                 |               | _                                     |              |                    |
|                       |                             |                                       |               |                   |              |                 | <del></del>   |                                       |              |                    |
|                       | 1                           | T = - : T                             |               | on 3. RECO        |              |                 | Т             |                                       |              |                    |
| Diameter<br>(inches)  | Pounds<br>per foot          | Threads per in.                       | Depth<br>Top  | in Feet<br>Botton |              | ength<br>(feet) | Type of       | Shoe                                  | From         | rations<br>To      |
| 6 5/8                 |                             |                                       | 0             | 101               |              | 101             | None          |                                       | 60           | 101                |
|                       |                             |                                       |               |                   |              |                 |               |                                       |              |                    |
|                       |                             |                                       |               |                   |              | <del></del>     |               | <u></u>                               |              |                    |
|                       | 1                           | Sec                                   | tion 4. RECO  | RD OF MI          | UDDING       | AND CEM         | ENTING        | ····                                  | L            | 1                  |
|                       | in Feet                     | Hole                                  | Sac           | ks                | Cubic I      | eet             | •             | ethod of I                            | Placement    |                    |
| From                  | То                          | Diameter                              | of M          | iua               | of Cem       | ient            |               |                                       |              |                    |
|                       | <b> </b>                    | <del> </del>                          | -             |                   |              |                 | Cemer         | nt at                                 | top.         |                    |
|                       |                             |                                       |               |                   |              |                 |               | · · · · · · · · · · · · · · · · · · · |              |                    |
|                       | <u> </u>                    | <u>l</u>                              | <u> </u>      |                   |              |                 | <del></del>   |                                       |              |                    |
|                       |                             |                                       | Section       | on 5. PLUC        | GGING RE     | CORD            |               |                                       | •            |                    |
| lugging Contr         | actor                       |                                       | <del></del>   |                   |              |                 | D1            | , in East                             | <del></del>  |                    |
|                       | od bo                       | · · · · · · · · · · · · · · · · · · · |               |                   |              | No.             | Top           | in Feet<br>Botto                      |              | bic Feet<br>Cement |
| ate Well Plug         | ged                         |                                       |               |                   |              | 1               |               |                                       |              |                    |
| lugging appro         | ved by:                     |                                       | <u>.</u>      |                   |              | 3               |               |                                       |              |                    |
|                       |                             | State En                              | gineer Repres | entative          |              | 4               |               | <u> </u>                              |              |                    |
| ata Dazz'ez i         |                             |                                       | FOR USE       | OF STAT           | E ENGIN      | EER ONL         | .Y            |                                       |              |                    |
| ate Received          |                             |                                       |               |                   |              |                 | FW            |                                       |              |                    |
| File No               | L-735                       | 7                                     |               | Use I             | )on          |                 | Location No.  | 19.38                                 | .15.2        | 4221               |
|                       |                             |                                       |               |                   |              |                 |               |                                       |              |                    |

Revised June 1972

| Street                  | of well <u>G. I</u><br>or Post Office Ac<br>d State <u>Hobbs</u> | ddress Star      | Rt. A Bo                              | x 26                   |            |              | Owner             | 's Well No.    | 80090-1              |
|-------------------------|------------------------------------------------------------------|------------------|---------------------------------------|------------------------|------------|--------------|-------------------|----------------|----------------------|
| -                       | d State <u>HODOS</u><br>ed under Permit                          |                  |                                       |                        |            | is located i | - the             |                |                      |
|                         |                                                                  |                  |                                       |                        |            |              |                   | 20-            |                      |
|                         |                                                                  |                  |                                       | _                      |            | -            | Kan               | _              | N.M.P.N              |
|                         |                                                                  |                  |                                       |                        |            |              |                   |                |                      |
| Sub                     | division, recorde                                                | d in             |                                       | Lea                    | County     |              |                   |                |                      |
|                         |                                                                  | _ feet, Y=       |                                       | feet, !                | N.M. Co    | ordinate S   |                   |                | Zone i               |
| (B) Drilling            | Contractor G                                                     | ade Oldakei      | <u> </u>                              |                        |            |              | _ License No      | WD-657         |                      |
| Address P.              | 0. Box 23                                                        | 21, Hobbs,       | New Mexi                              | .co, 88240             | <u> </u>   |              | <del></del>       |                | ····                 |
| Drilling Bega           | n <u>3/20/80</u>                                                 | Сотр             | leted 3/2                             | 0/80                   | Турс       | tools        | rotary            | Size of I      | hole 10½ in          |
| Elevation of            | land surface or _                                                | 3650             |                                       | at w                   | ell is     | 8650         | _ ft. Total depth | of well13      | 10f                  |
| Completed w             | ellis 🔀 s                                                        | shallow 🗀 a      | rtesian.                              |                        | Depth      | to water i   | ipon completion   | of well        | <b>58</b> fi         |
| Dent                    | h in Feet                                                        | Sect             | ion 2. PRIN                           | CIPAL WATE             | ER-BEA     | RING STI     | RATA              | Fetim          | ated Yield           |
| From                    | То                                                               | in Feet          | _ I                                   | Description of         | f Water-   | Bearing Fo   | ormation          |                | per minute)          |
| 58                      | 130                                                              | 72               | Wat                                   | er, Sand               |            |              | 7                 | 25 G           | PM                   |
|                         | <u> </u>                                                         |                  | <del> </del> -                        | <del></del>            |            |              |                   |                |                      |
|                         |                                                                  |                  |                                       |                        |            |              |                   |                |                      |
|                         |                                                                  | <u> </u>         |                                       |                        |            |              |                   |                |                      |
| Diameter                | Pounds                                                           | Threads          |                                       | n 3. RECORI<br>in Feet |            | ength        |                   |                | Perforations         |
| (inches)                | per foot                                                         | per in.          | Тор                                   | Bottom                 |            | (eet)        | Type of Sho       | Fre            | om To                |
| 6 5/8                   |                                                                  |                  | 0                                     | 130                    | 130        | )            | none              | 110            | 130                  |
| <del> </del>            |                                                                  |                  |                                       |                        | 1          |              | <del></del>       |                |                      |
|                         |                                                                  | Section          | on 4. RECOI                           | RD OF MUD              | DING A     | ND CEME      | NTING             | L              |                      |
| Dept<br>From            | h in Feet<br>To                                                  | Hole<br>Diameter | Sack<br>of Mi                         |                        | Cubic Food |              | Metho             | d of Placem    | ent                  |
|                         |                                                                  | 10½              |                                       |                        |            |              |                   |                |                      |
|                         |                                                                  |                  |                                       |                        |            |              |                   |                |                      |
|                         |                                                                  |                  |                                       |                        |            |              |                   |                |                      |
|                         |                                                                  |                  | Sectio                                | n 5. PLUGGI            | NG RE      | CORD         |                   |                |                      |
| • • •                   | tractor                                                          |                  |                                       |                        |            |              |                   |                |                      |
| Address<br>Plugging Met | hod                                                              |                  | · · · · · · · · · · · · · · · · · · · |                        |            | No.          | Depth in l        | Feet<br>Bottom | Cubic Feet of Cement |
| Date Well Plu           |                                                                  |                  |                                       |                        |            | 1            |                   |                |                      |
| Plugging appr           |                                                                  | State Engi       | neer Represe                          | ntative                |            | 3 4          |                   |                |                      |
|                         |                                                                  |                  |                                       |                        |            |              |                   |                |                      |
| Date Receive            | d May 7, 19                                                      | 980              | FOR USE                               | OF STATE E             |            |              | FWL _             |                | FSL                  |
| File No                 | L-8046                                                           |                  |                                       |                        |            |              | ocation No. 19    |                |                      |
| rue No                  | - 5070                                                           |                  | <del></del>                           | ∪se <u>JUM</u>         |            | L            | ocation No. 13    |                | 77                   |

STATE ENGINEER O

Minum comin lake

| Street or Post Office Address 1101 South Dal Paso City and State Hobbs, New Mexico 88240  Well was drilled under Permit No. L-7359 and is located in the:  a                            | Zone in Grant.              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| b. Tract No of Map No of the                                                                                                                                                            | Zone in Grant.              |
| b. Tract No of Map No of the                                                                                                                                                            | Zone in Grant.              |
| d. X=feet, Y=feet, N.M. Coordinate System                                                                                                                                               | Zone in Grant.  8 in. 7 ft. |
| d. X=feet, Y=feet, N.M. Coordinate System                                                                                                                                               | Zone in Grant.  8 in. 7 ft. |
| the                                                                                                                                                                                     | 8 in.                       |
| Address P.O. Box 637, Hobbs, New Mexico 88240  Drilling Began 4/10/75 Completed 4/11/75 Type tools Cable Size of hole.  Elevation of land surface orat well isft. Total depth of well11 | 8 in.                       |
| Drilling Began 4/10/75 Completed 4/11/75 Type tools Cable Size of hole.  Elevation of land surface orat well isft. Total depth of well11                                                | 7ft.                        |
| Elevation of land surface or at well is ft. Total depth of well11                                                                                                                       | 7ft.                        |
|                                                                                                                                                                                         |                             |
| Completed well is 😾 shallow 🗆 artesian. Depth to water upon completion of well 57                                                                                                       | ft.                         |
| A signification of well                                                                                                                                                                 |                             |
|                                                                                                                                                                                         |                             |
| Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness Estimated                                                                                                            | Yield                       |
| From To in Feet Description of Water-Bearing Formation (gallons per                                                                                                                     |                             |
| 57 117 60                                                                                                                                                                               |                             |
|                                                                                                                                                                                         |                             |
|                                                                                                                                                                                         |                             |
|                                                                                                                                                                                         |                             |
|                                                                                                                                                                                         |                             |
| Section 3. RECORD OF CASING                                                                                                                                                             |                             |
| Diameter (inches) per foot per in. Top Bottom (feet) Type of Shoe From                                                                                                                  | orations<br>To              |
|                                                                                                                                                                                         |                             |
| 6 5/8 0 117 117 NONE 77                                                                                                                                                                 | 117                         |
|                                                                                                                                                                                         | -                           |
|                                                                                                                                                                                         |                             |
| Section 4. RECORD OF MUDDING AND CEMENTING                                                                                                                                              |                             |
| Depth in Feet Hole Sacks Cubic Feet Method of Placement From To Diameter of Mud of Cement                                                                                               |                             |
| Cement at top.                                                                                                                                                                          |                             |
| Joinetto do 1005.                                                                                                                                                                       |                             |
|                                                                                                                                                                                         |                             |
|                                                                                                                                                                                         |                             |
| Section 5. PLUGGING RECORD                                                                                                                                                              |                             |
| Plugging Contractor                                                                                                                                                                     |                             |
| NO                                                                                                                                                                                      | Cubic Feet of Cement        |
| Date Well Plugged                                                                                                                                                                       |                             |
| Plugging approved by:                                                                                                                                                                   |                             |
| State Engineer Representative 4                                                                                                                                                         |                             |
| FOR USE OF STATE ENGINEER ONLY Date Received                                                                                                                                            |                             |
| Quad FWL FS:                                                                                                                                                                            | L                           |
| File No. 4-7359 Use Dom Location No. 19. 38.15, 24                                                                                                                                      |                             |

WAL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section 1  | ny Decilo     |                |          | (A) O             | -             | TP. N   | l Deen                                |                    |                                       |
|------------|---------------|----------------|----------|-------------------|---------------|---------|---------------------------------------|--------------------|---------------------------------------|
|            |               | T              |          | • •               |               |         | i. Dean<br>South Linam                | Q <b>+</b>         |                                       |
|            | 1             |                |          |                   |               |         |                                       |                    | w Mexico                              |
|            |               |                |          |                   |               |         |                                       |                    | l is located in the                   |
|            |               |                | .        | ¼\$               | 31 4          | SE      | 4 of Section_1                        | 5Twp198            | Rge. 38E                              |
|            |               |                |          |                   |               |         |                                       |                    | ase No.WD99                           |
| <b>!</b>   | ļ             |                |          |                   |               |         | ox 56                                 |                    |                                       |
| ·          | <u>\</u>      |                |          | City              |               |         | Hobba                                 | State No           | w Mexico                              |
| <b>i</b> i |               |                | - }:     | Drilling w        | as comme      | enced_l | řeb. 21                               |                    | 19.57                                 |
| (P)        | lat of 640 s  | icres)         |          | Drilling w        | as comple     | tedl    | Teb. 22.                              |                    | 1957                                  |
| Elevation  | at top of     | casing i       | n feet   | above sea         | level         |         | Total de                              | pth of well106     |                                       |
|            | _             | _              |          |                   |               |         | Depth to wa                           |                    |                                       |
| Section 2  | <del></del>   |                |          |                   | CIPAL WA      | TER-BE  | ARING STRATA                          |                    |                                       |
| No         | Depth in      | To             |          | ckness in<br>Feet |               |         | Description of Wate                   | r-Bearing Formatio | on.                                   |
| 1          | 80            | 105            | 25       | i                 | Red s         | and 8   | sand rock                             | <del></del>        |                                       |
| 2          | <u></u>       |                | <u> </u> |                   |               |         | · · · · · · · · · · · · · · · · · · · |                    |                                       |
| 3          |               |                |          |                   |               |         |                                       |                    |                                       |
| 4          |               |                |          |                   |               |         |                                       |                    |                                       |
| 5          |               |                | <u> </u> |                   |               |         |                                       | <del></del>        |                                       |
| Section 3  |               |                |          | <del> </del>      | RECOR         | D OF C  | ASING                                 |                    |                                       |
| Dia<br>in. | Pounds<br>ft. | Threa<br>in    |          | Top               | Bottom Bottom | Feet    | Type Shoe                             | From               | rations To                            |
| 5 5/8      | 20            | None           |          | 0                 | 10            | 10      | None                                  | None               |                                       |
|            |               | <del> </del>   |          |                   |               |         |                                       | <u> </u>           | <del> </del>                          |
|            |               | -              |          |                   |               |         |                                       |                    |                                       |
| Section 4  | <del>'</del>  | - <del>'</del> |          | RECORI            | OF MUD        | DING .  | AND CEMENTING                         |                    | · · · · · · · · · · · · · · · · · · · |
|            | in Feet       | Diame          | ter      | Tons              | No. Sa        | cks of  |                                       | 36-41-3-77-3       |                                       |
| From       | To            | Hole in        | in.      | Clay              | Cem           | ent     |                                       | Methods Used       |                                       |
|            |               |                |          |                   |               |         |                                       |                    |                                       |
|            |               |                |          |                   |               |         |                                       |                    |                                       |
|            |               |                |          |                   |               |         |                                       |                    |                                       |
|            | İ             |                |          | !                 | 1             |         |                                       |                    |                                       |
| Section 5  |               | -              |          | -                 | PLUGG         | ING RI  | CORD                                  |                    |                                       |
|            | Plugging      |                |          |                   |               |         |                                       |                    |                                       |
| Street an  | d Numbe       | r              |          |                   |               | _ City_ |                                       | State              |                                       |
| Cons of C  | Clay used.    |                |          | Tons of Ro        | oughage u     | sed     | Ту                                    | pe of roughage_    |                                       |
| Plugging   | method u      | sed            |          |                   |               |         | Date Plu                              | igged              | 19                                    |
| Plugging   | approved      | by:            |          |                   |               |         | Cement Plu                            | gs were placed as  | s follows:                            |
|            | <del></del>   |                |          | Besin Sup         | ervisor       | ſ       | No. Depth of P                        | lug No. o          | f Sacks Used                          |
| <u> </u>   |               | 1 :            |          | 1                 | 13.1          | 7       | त । । । । ।                           |                    |                                       |
| ٠.,        | FOR USE       |                | CR EN    | GINEER ON         | . ,           | 1       | 50 E TANK 1 10                        | 1.1.1              |                                       |
|            | Received 1    | 1 -            | M        | 17/95             | 21            |         |                                       |                    |                                       |
| Date I     |               |                | . ,      | DEFICE!           | XVI           |         | cyl.                                  |                    |                                       |
| •          |               | [777           |          | MATER UTILES      | adrama        | ]L      |                                       |                    |                                       |
|            | / -           | カンフ            |          | y, pw miai        |               | · /     |                                       | 10 2 0             | 15- 11.5                              |
| File No.   | 1-0           | 266            | 1        |                   | _Use          | yon     | Locatio                               | n No. 17.38        | 15,400                                |

## STAT GINEER OFFICE WELL RECORD

Revised June 1972

| Owneroi                                                            | f well C                | C.B              | Section 1     | GENERAL I         | INFORMATIO          | Owne              | er's Wel      | 1 No. 6=       | 122                |
|--------------------------------------------------------------------|-------------------------|------------------|---------------|-------------------|---------------------|-------------------|---------------|----------------|--------------------|
| Street or<br>City and                                              | Post Office Ad<br>State | bbs A            | L. M.         | V & G'            | rande               | Pd.               |               |                |                    |
| ll was drilled                                                     | 1 under Permit          | No. 4-           | 7512          | ·                 | _ and is located    | in the:           |               |                |                    |
| a                                                                  | _ % %                   | 1/2 x5           | E/4 of Se     | ction 15          | Township _          | 19 S Rai          | nge <u>S</u>  | SE             | N.M.P.             |
| b. Tract                                                           | No                      | of Map No        | )             | of th             | e                   |                   |               | ·              |                    |
| c. Lot N<br>Subdi                                                  | o<br>vision, recorde    | of Block No.     | LEA           | of th             | e<br>County.        | <del></del>       |               |                |                    |
|                                                                    |                         | _ feet, Y=       | <u> </u>      | feet, N           | I.M. Coordinate     | System            |               |                |                    |
|                                                                    |                         | D. 0             | Idal          | Yer               |                     | License No        | W             | n 60           | Grai               |
|                                                                    |                         |                  |               |                   |                     | 1                 |               |                | •                  |
| lling Began                                                        | 4-15                    | -76 Com          | pleted 4      | -14-7             | É Type tools_       | CabLE             | Si            | ze of hole_    | 8                  |
| vation of la                                                       | nd surface or _         | 36               | 50            | at we             | :11 is 365          | ft. Total depth   | of wel        | 100            | <del></del>        |
| mpleted wel                                                        | ll is 🖾 s               | hallow 🗆         | artesian.     |                   | Depth to wate       | r upon completion | of we         | <u>. 3 - ا</u> | <u> </u>           |
| Death                                                              | in Feet                 | Se<br>Thicknes   |               | CIPAL WATE        | R-BEARING S         | TRATA             | 1             | Estimated      | Vield              |
| From                                                               | То                      | in Feet          |               | Description of    | Water-Bearing       | Formation         | (g            | allons per     |                    |
| 32                                                                 | 100                     | 68               | - V           | vate              | r, S.               | 4Nd               | 2             | 5G             | PM                 |
|                                                                    |                         |                  |               | ,                 |                     |                   |               |                |                    |
| ,                                                                  |                         |                  |               |                   |                     |                   |               |                |                    |
|                                                                    |                         | T                |               |                   | OF CASING           |                   |               |                |                    |
| Diameter<br>(inches)                                               | Pounds<br>per foot      | Threads per in.  | Top           | in Feet<br>Bottom | Length<br>(feet)    | Type of Sho       | œ             | From           | rations<br>To      |
| 678                                                                |                         |                  |               | 100               | 100                 | NONO              | a .           | 85             | 100                |
|                                                                    |                         | Sect             | ion 4 PECO    | D OF MUDI         | DING AND CEN        | CENTING           |               |                |                    |
| Dep th<br>From                                                     | in Feet To              | Hole<br>Diameter | Sack<br>of Mi | s C               | ubic Feet of Cement |                   | od of P       | lacement       |                    |
| FIOR                                                               | 1 10                    | Z'               | 0.11          |                   | cement              |                   |               |                |                    |
|                                                                    |                         |                  |               |                   |                     |                   |               |                |                    |
|                                                                    |                         |                  |               |                   |                     |                   |               |                |                    |
|                                                                    |                         | <u> </u>         |               |                   |                     |                   |               |                |                    |
|                                                                    |                         |                  | Sectio        | n 5. PLUGGI       | NG RECORD           |                   |               |                |                    |
|                                                                    | actor                   |                  | Sectio        | n 5. PLUGGI       | NG RECORD           | Depth in          | Fcel          |                | big Foot           |
| dress                                                              | od                      |                  | Sectio        | n 5. PLUGGI       | No.                 | Depth in Top      | Fcet<br>Botto |                | bic Feet<br>Cement |
| dress<br>gging Metho<br>te Well Plug                               | od                      |                  | Sectio        | n S. PLUGGI       |                     | <del></del>       |               |                |                    |
| gging Contr<br>dress<br>gging Metho<br>te Well Plug<br>gging appro | od                      |                  | Sectio        |                   | No. 1               | <del></del>       |               |                |                    |

Location No...

#### Section 1. GENERAL INFORMATION

| Street or         | well Geral           | idress <u>22 L</u>                          | lano Gran     | de Rd          |                             | Owne               | r's Well No. Z | 2825 1                    |
|-------------------|----------------------|---------------------------------------------|---------------|----------------|-----------------------------|--------------------|----------------|---------------------------|
| -                 | State Ho             |                                             | •             |                |                             |                    |                | <del></del>               |
|                   |                      |                                             |               |                | and is locate               |                    |                |                           |
| a                 | _ ¼ <u>NW</u> ½      | 4 <u>NW</u> % SE                            | ¼ of Sec      | tion <u>15</u> | Township ]                  | 19 S Rai           | nge <u>38E</u> | N.M.P.M.                  |
| b. Tract          | No. 8                | of Map No.                                  |               | of             | the Llano                   | Grande Sub.        |                |                           |
| c. Lot N<br>Subdi | o<br>vision, recorde | of Block No. <sub>-</sub><br>d in <u>Le</u> | 1<br>a        | of             | the <u>Llano</u><br>County. | Grande             |                | <u> </u>                  |
|                   |                      | _ feet, Y=                                  |               | feet,          | , N.M. Coordinate           | System             |                | Zone in<br>Grant.         |
| (B) Drilling (    | Contractor           | G. D. 01d                                   | aker          |                |                             | License No.WD      | -657           | ·                         |
| _                 |                      |                                             |               |                |                             |                    |                |                           |
|                   |                      |                                             |               |                |                             |                    |                | -1- 0 :-                  |
|                   |                      |                                             |               |                |                             | Cable              |                |                           |
| Elevation of la   | nd surface or _      | 3650                                        |               | at             | well is_3650                | ft. Total depth    | of well        | 00ft.                     |
| Completed wel     | lis ጆ s              | s 🗆 wolled                                  | rtesian.      |                | Depth to water              | er upon completion | of well3       | 2ft.                      |
|                   |                      | Sec                                         | tion 2. PRIN  | CIPAL WAT      | TER-BEARING S               | STRATA             |                |                           |
|                   | in Feet              | Thickness<br>in Feet                        |               | Description    | of Water-Bearing            | Formation          |                | nted Yield<br>per minute) |
| From              | То                   | 1 200                                       |               |                |                             |                    | 0,210.2        | por manay                 |
| 32                | 100                  | 68                                          | <u>. W</u>    | ater a         | nd Sand                     |                    | 25 G P         | М                         |
|                   |                      |                                             |               |                | <u></u>                     |                    |                |                           |
|                   |                      |                                             |               |                |                             |                    |                |                           |
|                   | <u>L</u>             |                                             |               |                |                             |                    | <u> </u>       |                           |
| Diameter          | Pounds               | Threads                                     |               | n 3. RECOI     | Length                      |                    |                | erforations               |
| (inches)          | per foot             | per in.                                     | Тор           | Bottom         |                             | Type of Sho        | e Fro          | <del></del>               |
| 6 5/8             |                      | -                                           | _0            | 100            | 100;                        | none               | 85             | 100                       |
|                   |                      |                                             |               |                |                             |                    |                |                           |
|                   | ]                    | Secti                                       | on 4. RECOI   | RD OF MUI      | DDING AND CE                | MENTING            |                |                           |
| Depth<br>From     | in Feet<br>To        | Hole<br>Diameter                            | Sack<br>of Mu |                | Cubic Feet<br>of Cement     | Metho              | od of Placeme  | ent                       |
|                   |                      | 9                                           |               |                |                             |                    |                |                           |
|                   |                      |                                             |               |                |                             |                    |                |                           |
|                   |                      |                                             |               |                |                             |                    |                |                           |
|                   |                      |                                             | Section       | n 5. PLUGO     | GING RECORD                 |                    |                |                           |
|                   | ractor               |                                             |               |                |                             |                    |                |                           |
| Address           | od bo                |                                             |               |                | No.                         | Depth in Top       | Feet<br>Bottom | Cubic Feet<br>of Cement   |
| Date Well Plug    | ged                  |                                             |               | : .            |                             | ТОР                | BOLIGIE        | or cement                 |
| Plugging appro    | ved by:              |                                             |               |                | 2                           | -                  |                |                           |
|                   |                      | State Eng                                   | ineer Represe | ntative        | 4                           |                    |                |                           |
| Date Received     | April                | 27 <b>,</b> 1979                            | FOR USE       |                | ENGINEER ON                 |                    |                |                           |
|                   |                      |                                             |               | Qu             |                             | FWL _              |                |                           |
| File No. L        | -7882                |                                             |               | Use I          | OM.                         | Location No. 1     | 9.38.15.       | 41100                     |

## STATE ENGINEER OF

#### Section 1. GENERAL INFORMATION

| Street or                      | Post Office Ad       | ink Glassp<br>ddress <u>Star</u><br>Ds. N.M.882 | Rt."A"          | &28 Llan              | o Gran       | de            | Ow                                     | ner's Well No     |                |                                         |
|--------------------------------|----------------------|-------------------------------------------------|-----------------|-----------------------|--------------|---------------|----------------------------------------|-------------------|----------------|-----------------------------------------|
| Vell was drille                | d under Permit       | No. L-61                                        | 01              |                       | and i        | s located     | in the:                                |                   |                |                                         |
| a                              | _ ¼ ½                | N 1/2 1/4 S                                     | E_ ¼ of Se      | ction 15              | Tov          | vnship        | 19 F                                   | tange <u>38E</u>  |                | N.M.P.M                                 |
|                                |                      | of Map No.                                      |                 |                       |              |               |                                        |                   |                |                                         |
| c. Lot N<br>Subdi              | o<br>vision, recorde | of Block No<br>d in                             | Lea             | of (                  | the          |               | · · · · · · · · · · · · · · · · · · ·  |                   |                |                                         |
|                                |                      | _ feet, Y=                                      |                 | feet,                 | N.M. Co      | ordinate      | System                                 |                   |                |                                         |
| B) Drilling (                  | Contractor           | G.D. 01                                         | daker           |                       |              |               | License No                             | WD- 657           |                |                                         |
| ddress                         | P.O.Box 2            | 2321. Hobb                                      | s. N.M.8        | 8240                  |              |               |                                        |                   |                |                                         |
| rilling Began                  | 12-20-85             | Comp                                            | leted <u>12</u> | <del>-</del> 22-85    | Туре         | tools         | Roary                                  | Size of           | f hole7        | in.                                     |
| levation of la                 | nd surface or _      | 3650                                            |                 | at v                  | well is      | 3650          | ft. Total dep                          | th of well        | 100            | ft.                                     |
| ompleted we                    | llis ⊠s              | hailow 🗆 at                                     | rtesian.        |                       | Depth        | to water      | upon completi                          | on of well        | 38             | ft.                                     |
| Death                          | in Foot              | T                                               | ion 2. PRIN     | CIPAL WAT             | TER-BEA      | RING ST       | RATA -                                 |                   |                |                                         |
| From                           | in Feet To           | Thickness<br>in Feet                            | I               | Description of        | of Water-l   | Bearing F     | ormation                               |                   | mated Yiel     |                                         |
| 38                             | 100                  | 62                                              |                 | Wat                   | er.          | Sand          |                                        | 25G               | PM             | <del></del>                             |
|                                |                      |                                                 |                 |                       |              |               |                                        | <del> </del>      |                |                                         |
|                                |                      | ļ                                               | <u> </u>        |                       |              |               |                                        |                   | <del></del>    |                                         |
|                                |                      |                                                 | <u> </u>        |                       |              | <del></del>   | ······································ |                   | · · · · · ·    |                                         |
| Diameter                       | Pounds               | Threads                                         |                 | n 3. RECOR<br>in Feet |              |               |                                        |                   | Perforation    |                                         |
| Diameter<br>(inches)           | per foot             | per in.                                         | Тор             | Bottom                |              | ength<br>eet) | Type of S                              | hoe F             | rom            | To                                      |
| 65/8                           |                      |                                                 | 0               | 100                   | 10           | 00            | none                                   | 7                 | 0 10           | 00                                      |
|                                |                      |                                                 |                 |                       | -            |               |                                        |                   |                |                                         |
|                                | <u> </u>             | Section                                         | n 4 PECOI       | RD OF MUD             | DING A       | ND CEM        | ENTING                                 |                   |                |                                         |
|                                | in Feet              | Hole                                            | Sack            | rs .                  | Cubic Fe     | et            |                                        | hod of Place      | ment           |                                         |
| From                           | То                   | Diameter                                        | of Mu           | ud                    | of Ceme      | nt            |                                        |                   |                |                                         |
|                                |                      | 7                                               |                 |                       |              |               |                                        |                   |                |                                         |
| ·                              |                      |                                                 |                 |                       |              |               |                                        |                   |                |                                         |
|                                | <u> </u>             |                                                 | Sectio          | n 5. PLUGG            | GING REG     | CORD          |                                        |                   |                |                                         |
|                                | ractor               |                                                 |                 |                       |              | _             |                                        | ····              |                | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| ddress<br>lugging Metho        |                      |                                                 |                 |                       |              | No.           | Depth<br>Top                           | in Feet<br>Bottom | Cubic<br>of Ce |                                         |
| ate Well Plug<br>lugging appro | -                    | ·                                               |                 |                       |              | 1 2           |                                        |                   |                |                                         |
|                                |                      | State Engi                                      | neer Repress    | entative              | <del>-</del> | 3 4           |                                        |                   | Ŀ              |                                         |
| <del></del>                    | <del></del>          |                                                 | FOR USE         | OF STATE              | ENGINE       | ER ONL        | Y                                      |                   |                |                                         |
| ate Received                   | April                | 13, 1987                                        |                 | Qu                    | ad           | ·····         | FWL                                    | ·                 | _ FSL          |                                         |

File No. L-6101

Use <u>DOMESTIC</u> Location No. 19.38.15.41131





INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section 1 | L               |                  |          |                      |                   |              |                  |                 |          |              |           |          |
|-----------|-----------------|------------------|----------|----------------------|-------------------|--------------|------------------|-----------------|----------|--------------|-----------|----------|
|           |                 |                  |          |                      |                   |              |                  | lark            |          |              |           |          |
|           |                 |                  | 1        | Street and           |                   |              |                  |                 |          |              |           |          |
|           |                 |                  |          |                      |                   |              |                  |                 |          |              |           |          |
|           |                 |                  | - 1      |                      |                   |              |                  | NoL-446         | •        |              |           |          |
|           |                 |                  |          |                      |                   |              |                  | f Section       |          |              |           |          |
|           |                 |                  | 1        |                      |                   |              |                  | E. Bartor       |          |              |           |          |
| Ĺ         |                 | <u>ে</u>         |          |                      |                   |              |                  | - <b>Сураў</b>  |          |              |           |          |
|           |                 |                  |          | City                 | <del> Hobbe</del> | J            |                  | 8-24-60         |          | State        | N.M.      |          |
| )         |                 |                  | - 1      |                      |                   |              |                  |                 |          |              |           |          |
| (F        | Plat of 640     | acres)           |          | Drilling w           | as comple         | eted         |                  | 8-28-60         |          |              |           | . 19     |
| •         |                 | =                | n fee    | t above se           | a level           |              |                  | Total de        | oth of   | well         | 100-      |          |
|           |                 |                  |          |                      |                   |              |                  | Depth to wa     |          |              |           |          |
|           |                 | 10 011411        |          |                      |                   |              |                  |                 | ·,       |              |           | 1        |
| Section 2 | <u> </u>        |                  |          | PRIN                 | CIPAL WA          | ATER-BEA     | RIN              | G STRATA        |          |              |           |          |
| No.       |                 | in Feet          | Th       | ickness in<br>Feet   |                   | D            | escr             | iption of Water | -Bearl   | ng Formatio  | N.        |          |
|           | From            | To               | <u> </u> | 1000                 |                   |              |                  |                 | •        |              |           |          |
| 1         | 411             | 501              | <u> </u> | 91                   |                   | nd Roc       | <del>) z (</del> | Porous)         |          |              |           |          |
| 2         | <del>- 50</del> | 100              | ]        | -50                  |                   | ter S        | •                |                 |          |              |           |          |
| 3         | 70-             | 100              |          | 70                   | n/B               | CAT. DE      | , MU             |                 |          |              |           |          |
| 4         |                 |                  |          |                      |                   |              |                  |                 |          |              |           |          |
| 5         |                 |                  | 1        |                      |                   |              |                  |                 |          |              |           |          |
| Section : | <br>3           | ·                |          |                      | RECOR             | D OF CA      | \SIN             | 1G              |          |              |           |          |
| Dia       | Pounds          | Thre             |          | Der                  |                   | 1            | 1                |                 | i        | Perfo        | orations  |          |
| in.       | ft.             | In               |          | Тор                  | Bottom            | Feet         |                  | Type Shoe       |          | From         |           | То       |
| 5**       | plas            | t10              |          | <b>o</b>             | 100               | <u> </u>     | _                | ·               |          |              |           |          |
|           | F               |                  |          | ļ                    |                   |              | _ _              |                 | <u> </u> |              |           |          |
|           | <u> </u>        |                  |          |                      |                   |              |                  |                 |          |              |           |          |
|           | <u> </u>        | <u> </u>         |          | <u> </u>             |                   |              | _                |                 | l        |              | <u> </u>  |          |
| Section ( | 4               |                  |          | RECOR                | D OF MUI          | DDING A      | ND.              | CEMENTING       |          |              |           |          |
| Depti     | h in Feet       | Diam             | eter     | Tons                 | No. Sa            | cks of       |                  |                 | 30.      |              |           |          |
| From      | То              | Hole i           | n In.    | Clay                 | Cen               | nent         |                  |                 | Met      | hods Used    |           |          |
|           |                 | 78               |          | <u> </u>             |                   |              |                  |                 |          |              |           |          |
|           | 1               | <del></del>      |          |                      |                   |              |                  |                 |          |              |           |          |
|           | <del></del>     |                  |          |                      |                   |              |                  |                 |          |              |           |          |
|           | <del></del>     |                  | -        |                      |                   |              |                  |                 |          |              | ,         |          |
|           |                 |                  |          | -                    |                   |              |                  |                 |          |              |           |          |
| Section 8 | _               |                  |          |                      |                   | SING REC     |                  |                 |          |              |           |          |
|           |                 |                  |          |                      |                   |              |                  |                 |          |              |           |          |
|           |                 |                  |          |                      |                   |              |                  |                 |          |              |           |          |
|           | -               |                  |          |                      |                   |              |                  | Ту              |          |              |           |          |
| Plugging  | g method        | used             |          |                      |                   |              |                  | Date Plu        | gged.    |              |           | 19       |
| Plugging  | approve         | ed by:           |          |                      |                   |              |                  | Cement Plu      | gs wei   | re placed a  | s follows | s:       |
|           |                 |                  |          |                      |                   | N            | ro.              | Depth of P      |          | No. o        | f Sacks U | Jsed     |
|           |                 | 2 mg/1/18 days 1 | 1200     | Basin Sup            |                   | <b></b> ₁ ├- | $\dashv$         | From 7          | ro       | <del> </del> |           |          |
|           | FOR U           | SE OF STA        | 代用       | GINEER O             | NLY               |              |                  | <del> </del>    |          | <del> </del> |           |          |
| ,         | 114             | NEER OF          |          |                      | ٨                 |              | $\dashv$         |                 |          | <del> </del> |           |          |
| Date :    | Keceived        |                  |          |                      | <del>//</del>     | _            |                  |                 |          |              |           |          |
|           | ار ک            | :8 Mg 1-         | :Eb -    | 2 03eM <sub>u.</sub> | -                 |              |                  |                 |          |              |           |          |
|           |                 |                  |          | 9                    |                   |              |                  |                 |          |              |           |          |
|           | /               | 110              |          |                      | (                 | )            |                  | Locatio         |          | 18-30        | 1 12.     | 113      |
| File No   | 1-4             | 487              |          |                      | Use.ك             | om.          |                  | Locatio         | n No     |              | 72.9      | <u>-</u> |

## Revised Ju

| Owner of well   Street or Post Office Address   125 E. Liano Grande   Hobbs, NF1 83340                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Zone<br>Gran   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ell was drilled under Permit No. L-10,046  a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Zone<br>Gran   |
| a 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Zone<br>Gran   |
| b. Tract No of Map No of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Zone<br>Gran   |
| c. Lot No of Block No of the County.  d. X= feet, Y= feet, N.M. Coordinate System the Drilling Contractor Larry's Drilling License No WD882 2116 W. Bender, Hobbs, NM88240 ldress illing Began 11-18-88 Completed 11-26-88 Type tools Button Size of hole evation of land surface or at well is ft. Total depth of well 120 ompleted well is Shallow artesian Depth to water upon completion of well 70 Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per most) | Zone :<br>Gran |
| d. X=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Zone           |
| the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Gran           |
| illing Began 11~18-88 Completed 11-26-88 Type tools Button Size of hole evation of land surface or at well is ft. Total depth of well 120 mpleted well is shallow artesian. Depth to water upon completion of well 70 Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per m                                                                                                                                                                                      |                |
| illing Began 11~18-88 Completed 11-26-88 Type tools Button Size of hole evation of land surface or at well is ft. Total depth of well 120 completed well is Shallow artesian. Depth to water upon completion of well 70 Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per m                                                                                                                                                                                    |                |
| sevation of land surface or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 83/4 i         |
| Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per m                                                                                                                                                                                                                                                                                                                                                                                                            |                |
| Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per m                                                                                                                                                                                                                                                                                                                                                                                                            | f              |
| Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per m                                                                                                                                                                                                                                                                                                                                                                                                            | n 1            |
| Depth in Feet Thickness From To in Feet Description of Water-Bearing Formation (gallons per m                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |
| From 10 arrest and Ganons per in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ield           |
| 70 120 50 sand & sandstone 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | inute)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
| Section 3. RECORD OF CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |
| Diameter Pounds Threads Depth in Feet Length Type of Shoe Perfora                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ations         |
| (inches) per foot per in. Top Bottom (feet) Type of Sides From                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | То             |
| 51/2 160PVC -1 120 121 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 120            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
| Seation 4 RECORD OF MUDDING AND CEMENTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |
| Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Sacks Cubic Feet Method of Placement                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| From To Diameter of Mud of Cement Section 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
| Section 5. PLUGGING RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |
| Idress Depth in Feet Cub                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | bic Feet       |
| rigging Method Top Bottom of C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cement         |
| agging approved by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| State Engineer Representative 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
| FOR USE OF STATE ENGINEER ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |
| te Received December 5, 1988  QuadFWLFSL_                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |
| File No. L-10,046 Use DOMESTIC Location No. 19.38.15.4130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |

| Castian | 1  | GENERAL | IMI | COD | MATI | AN. |
|---------|----|---------|-----|-----|------|-----|
| section | 1. | GENERAL | IN  | ruk | MAII | JN. |

| (A) Owner o          | f well             | BICNNY  doress Die  | Zow E           | 80 ddy<br>932     | _                         |                                       | Owne                | r's Well No.           | <del></del>           |                   |
|----------------------|--------------------|---------------------|-----------------|-------------------|---------------------------|---------------------------------------|---------------------|------------------------|-----------------------|-------------------|
| City and             | State              | plet.               | 2,2             | m                 |                           |                                       |                     |                        |                       |                   |
| Well was drille      | d under Permit     | No. 4-9             | 121             |                   | and is                    | located                               | in the:             |                        |                       |                   |
| a                    | _ ¼ ;              | 4 <u>N</u> ½,       | SE % of Se      | ction 15          | Tow                       | nship                                 | 19-S Ran            | 1ge38                  | - EN                  | i.M.P.M.          |
| b. Tract             | No                 | of Map No.          |                 | of                | the                       | · · · · · · · · · · · · · · · · · · · | •                   |                        |                       |                   |
| c. Lot N<br>Subdi    | łoivision, recorde | of Block No<br>d in | 1200            | of                | the <u>L</u><br>County.   | aNO                                   | GRZN                | 120                    |                       | <del></del>       |
|                      |                    | _ feet, Y=          |                 | feet,             | , N.M. Coo                | rdinate S                             | System              |                        |                       | Zone in<br>Grant. |
| (B) Drilling         | Contractor         | C, M,               | GRi             | 55/1/             |                           |                                       | _ License No. LL    | 10 60                  | 3                     | <del></del>       |
| Address              | 201                | WA                  | 100             | Ho                | 665,                      | N,                                    | _ License No. [4]   | ¥U                     | -                     |                   |
| Drilling Began       | 5/2                | /86 Comp            | leted 5/        | 3/86              | Туре                      | tools 🔟                               | ROTRAY              | Size of                | hole                  | /2 in.            |
| Elevation of la      | nd surface or _    |                     |                 | at v              | well is                   |                                       | _ ft. Total depth   | of well                | 00                    | ft.               |
| Completed we         | ll is 🗷 s          | hallow 🔲 ar         | tesian.         |                   | Depth 1                   | o water                               | upon completion     | of well                | 51                    | ft.               |
|                      |                    | Sect                | ion 2. PRIN     | CIPAL WAT         | TER-BEAR                  | ING ST                                | RATA                |                        |                       |                   |
| Depth<br>From        | in Feet<br>To      | Thickness in Feet   | 1               | Description (     | of Water-B                | earing F                              | ormation            |                        | ated Yield<br>perminu | _ ,               |
| 50                   | 100                | 50                  |                 | Red               | Sa.                       | <b>Nd</b>                             |                     | 10-0                   |                       |                   |
|                      |                    |                     |                 |                   |                           |                                       |                     |                        |                       |                   |
|                      |                    |                     |                 |                   |                           |                                       |                     |                        |                       |                   |
|                      |                    |                     |                 |                   |                           |                                       |                     |                        |                       |                   |
|                      |                    |                     | Sectio          | n 3. RECOF        | RD OF CA                  | SING                                  |                     |                        |                       |                   |
| Diameter<br>(inches) | Pounds<br>per foot | Threads per in.     | Depth<br>Top    | in Feet<br>Bottom | Length (feet) Type of Sho |                                       |                     | e Perforations From To |                       |                   |
| 5                    |                    |                     | 0               | 100               |                           | 00                                    | none                | 8                      |                       | 00                |
|                      |                    |                     |                 |                   |                           |                                       |                     |                        |                       |                   |
|                      |                    |                     |                 |                   |                           |                                       |                     |                        |                       |                   |
|                      |                    | Section             | n 4. RECOI      | RD OF MUI         | DDING AN                  | D CEM                                 | ENTING              |                        |                       |                   |
| Depth<br>From        | in Feet<br>To      | Hole<br>Diameter    | Sack<br>of M    |                   | Cubic Fee                 |                                       | Method of Placement |                        |                       |                   |
| 0                    | 100                | 7/2                 | /               |                   |                           |                                       | Kel W/              | VaT.                   |                       |                   |
|                      |                    |                     |                 |                   |                           |                                       |                     |                        |                       |                   |
|                      |                    |                     |                 |                   |                           |                                       |                     |                        |                       |                   |
| <u> </u>             |                    | •                   | Sactio          | n S. PLUGO        | SINC PEC                  | OPD                                   |                     |                        |                       |                   |
| Plugging Contr       | ractor             |                     |                 | 7. T E00C         |                           | ORD                                   |                     |                        |                       |                   |
|                      | od                 |                     | · · · · · · · · |                   |                           | No.                                   | Depth in            | Feet<br>Bottom         | Cubic<br>of Cen       |                   |
| Date Well Plug       | ged                | ·                   |                 |                   |                           | 1                                     | TOP                 | Bottom                 | Or CCI                |                   |
| Plugging appro       | oved by: ;         | •                   | ·               |                   |                           | 3                                     |                     |                        |                       |                   |
|                      | • .                | State Engi          | neer Repres     | entative          | <u> </u>                  | 4                                     |                     |                        |                       |                   |
| Date Received        | Mass               | 12 1006             | -               | OF STATE          | ENGINE                    | R ONL                                 | Y                   |                        |                       |                   |
| Pare Versiagn        | may                | 12, 1986            |                 | Qu                |                           |                                       | FWL _               |                        |                       |                   |
| File No              | L - 98             | 321                 |                 | Use               | DOMES                     | TIC                                   | Location No         | 19.38.1                | 5.4134                | 10                |

#### **WELL RECORD**

Section 1. GENERAL INFO TION \_\_\_\_ Owner's Well No. \_\_\_ (A) Owner of well ... Street or Post Office Address \_\_\_\_ City and State Folder Fores Well was drilled under Permit No. 1-9013 and is located in the: a. 1/4 St. 1/4 Mt. 1/4 Mt. 1/4 of Section 12 Township 19 Range 556 N.M.P.M. b. Tract No. 5 of Map No. of the c. Lot No. \_\_\_\_ of Block No. \_ 2 \_\_\_ of the \_\_\_ Llano Grande Subdivision, recorded in \_\_\_ Lea \_\_\_ County. d. X= \_\_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_ \_\_ Zone in \_ Grant. (B) Drilling Contractor (1 dai 12 5 3 cms License No. hp-657 r.c... x 2321, obbs h.M. C-2-32 Completed 7-3-72 Type tools Cable Size of hole 10'2 in. Drilling Began \_\_\_\_ Elevation of land surface or 3050 at well is 3050 ft. Total depth of well 100 ft. Depth to water upon completion of well 32 Completed well is Shallow artesian. Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness Estimated Yield Description of Water-Bearing Formation (gallons per minute) in Feet To From 25 ... 32 10C . 68 Water Sand Section 3. RECORD OF CASING Depth in Feet Perforations Pounds Length Diameter Threads Type of Shoe (inches) per foot per in. Bottom (feet) From Top 100 C 5:1 100 hone 100 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement Diameter of Mud of Cement From 104 Section 5. PLUGGING RECORD Plugging Contractor \_\_\_ Address . Depth in Feet Cubic Feet No. Plugging Method \_ Top Bottom of Cement Date Well Plugged\_ Plugging approved by: State Engineer Representative FOR USE OF STATE ENGINEER ONLY Date Received October 31, 1983 \_\_\_ FWL \_\_\_\_\_ FSL\_\_\_ Quad \_\_\_ File No.\_\_\_\_\_L-9018 DOMESTIC Location No. 19.38.15.414 \_\_ Use \_

#### STATE ENGINEER OFFICE

With Killing



Section 1. GENERAL INFORMATION (A) Owner of well \_\_\_ HAZEL K. DOBBINS \_\_\_\_\_ Owner's Well No. \_\_\_ Street or Post Office Address \_\_\_\_\_ 15 LLANO GRANDE HOBBS, N.M. 88240 City and State Well was drilled under Permit No. \_\_\_\_\_\_ and is located in the: b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_ c. Lot No. <u>PT. 5 & 06 Block No.</u> 2 of the <u>LLANO GRANDE</u>
Subdivision, recorded in <u>LFA</u> County. \_\_\_\_\_ feet, N.M. Coordinate System\_\_\_ \_\_\_\_\_ feet, Y=\_\_\_ \_\_ Zone in the \_\_\_\_ \_ Grant. (B) Drilling Contractor GENE FADES \_\_\_\_\_License No. WD982 Address RT. 4 TAHOKA, TX. 79373 Drilling Began 8-29-83 Completed 8-29-83 Type tools Rotary Size of hole 8 in. Elevation of land surface or \_\_\_\_ \_\_\_\_\_ at well is\_\_\_\_\_ ft. Total depth of well\_\_\_\_\_ ft. Depth to water upon completion of well 58 ft. Completed well is Shallow artesian. Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness Estimated Yield Description of Water-Bearing Formation in Feet (gallons per minute) From To 62 35\_ 1.20 WATER SAND 58 Section 3. RECORD OF CASING Pounds Depth in Feet **Perforations** Diameter Threads Length Type of Shoe (inches) per foot per in. (feet) Top Bottom From To 110 120 120 160 pai 5 3/4 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement Diameter of Mud From of Cement Section 5. PLUGGING RECORD Plugging Contractor \_\_\_\_ Address Depth in Feet Cubic Feet No. Plugging Method ... Top Bottom of Cement Date Well Plugged\_ Plugging approved by: 3 State Engineer Representative FOR USE OF STATE ENGINEER ONLY Date Received Quad \_\_ September 1, 1983 \_\_\_\_\_ FWL \_\_\_\_\_ FSL\_\_\_\_ Use DOMESTIC Location No. 19,38,15,414 L-9310 File No.\_\_\_



| Street or Pot Office Address P.O. Box 1825                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Street or         | Post Office A                                    | . Dobbins                                    | ROX 18       | 25                                    |                | Owner                                   | r's Well No    |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------|----------------------------------------------|--------------|---------------------------------------|----------------|-----------------------------------------|----------------|---------|
| a. W. W. N. SE W. of Section 15 Township 19S Range 38E N.M.  b. Tract No. 6 of Map No. of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | City and          | State Ho                                         | bbs, New                                     | Mexico       | 88240                                 | )              |                                         |                |         |
| b. Tract No. 6 of Map No. 2 of the Llano Grande  c. Lot No. of Block No. 2 of the Llano Grande  Subdivision, recorded in 1988 County.  d. X= feet, Y= feet, N.M. Coordinate System Zor the Grande Subdivision, recorded in 1988 County.  d. X= feet, Y= feet, N.M. Coordinate System Zor the Grand Subdivision, recorded in 1988 County.  d. X= feet, Y= feet, N.M. Coordinate System Zor Sor Subdivision, recorded in 1988 County.  Diffiling Contractor Abbott Bros. License No. WD-46 Considers P.O. Box 637, Hobbs, New Mexico 88240  Address P.O. Box 637, Hobbs, New Mexico 88240  Streation of land surface or at well is ft. Total depth of well 100  Completed well is shallow artesian. Depth to water upon completion of well 50  Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per minute)  Section 3. RECORD OF CASING  Diameter Pounds Threads Depth in Feet Length (feet) Type of Shoe Perforations  Section 3. RECORD OF MUDDING AND CEMENTING  A Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Diameter of Mud of Cement Method of Placement Of Cement at top  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  No. Depth in Feet Cubic Feet Top Bottom of Cement Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top | ell was drilled   | l under Permit                                   | No. L-738                                    | 31           |                                       | _ and is locat | ed in the:                              |                |         |
| c. Lot No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | a                 | _ ¼ ;                                            | Ni Ni SI                                     | E ¼ of Sec   | ction 15                              | Township       | 19S                                     | ge <u>38E</u>  | N.M.P.M |
| Subdivision, recorded inlea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | b. Tract          | No6                                              | of Map No.                                   |              | of the                                | :              |                                         |                |         |
| the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | c. Lot N<br>Subdi | o<br>vision, recorde                             | of Block No<br>d in _ Lea                    | 2            | of the                                | Llano          | Grande                                  |                |         |
| Section 3. RECORD OF CASING   Depth in Feet   From   To   Depth in Feet   Hole   From   To   Depth in Feet   Hole   From   To   Depth in Feet   Hole   From   To   Depth in Feet   Description of Mud   Depth in Feet   Top   Bottom   To   Depth in Feet   Top   Bottom   To   Depth in Feet   Top   Bottom   Creent   Top   Depth in Feet   Depth    |                   |                                                  |                                              |              |                                       | .M. Coordina   |                                         |                |         |
| Section 3. RECORD OF CASING   Sand   Section 4. RECORD OF MudDing AND CEMENTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B) Drilling C     | Contractor                                       | Abbott B                                     | cos.         |                                       |                | License No                              | WD-46          |         |
| Section 2. RECORD OF CASING   Depth in Feet   Tope of Shoe   Perforations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ddress P          | .0. Box                                          | 637, Hob                                     | os. New      | Mexico                                | 88240          |                                         |                |         |
| Section 2. PRINCIPAL WATER-BEARING STRATA    Depth in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | rilling Began     | 5/15                                             | /75 Comp                                     | leted        | 5/16/75                               | _ Type tools   | Cable                                   | Size of hole.  | 8in     |
| Section 2. PRINCIPAL WATER-BEARING STRATA   Depth in Feet   Thickness in Feet   Description of Water-Bearing Formation   Estimated Yield (gallons per minute)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | levation of las   | nd surface or .                                  |                                              |              | at we                                 | ll is          | ft. Total depth                         | of well 100    | ft      |
| Depth in Feet   Thickness in Feet   Description of Water-Bearing Formation   Estimated Yield (gallons per minute)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ompleted wel      | l is 🖺 s                                         | shallow 🗆 a                                  | rtesian.     |                                       | Depth to wa    | ter upon completion                     | of well 50     | ft      |
| Section 3. RECORD OF CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                                  | Sect                                         | tion 2. PRIN | CIPAL WATE                            | R-BEARING      | STRATA                                  |                |         |
| Section 3. RECORD OF CASING   Depth in Feet   Length   Type of Shoe   Perforations   From   To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <del></del>       | T                                                |                                              | ı            | Description of                        | Water-Bearing  | g Formation                             |                |         |
| Section 3. RECORD OF CASING  Diameter Pounds (inches) per foot per in. Top Bottom (feet) Type of Shoe From To  6 5/8 12 Welded O 100 100 None 80 10  Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Diameter of Mud of Cement Cement To Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  No. Depth in Feet Cubic Feet Using Method at Well Plugged Using Method at Well Plugged Using Method at Well Plugged Using approved by:  Section 5. RECORD OF CASING  Type of Shoe Perforations From To  Perforations  From To  Cement at top  No. Depth in Feet Cubic Feet Of Cement of Cement Cubic Feet Using Method at Well Plugged Using Method 1  2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                  | 50                                           | Sar          | nd                                    |                |                                         |                |         |
| Section 3. RECORD OF CASING  Diameter Pounds per foot per in. Top Bottom (feet) Type of Shoe From To  6 5/8 12 Welded O 100 100 None 80 10  Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Sacks Cubic Feet of Mud of Cement Method of Placement  Cement at top  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Uugging Contractor ddress uugging Method ate Well Plugged uugging approved by:  Section 7. RECORD OF MUDDING AND CEMENTING Method of Placement Cubic Fee Top Bottom of Cement Cubic Fee Top Bottom Of  |                   |                                                  |                                              |              |                                       |                |                                         |                |         |
| Section 3. RECORD OF CASING  Diameter (inches) Pounds per foot per in. Top Bottom (feet) Type of Shoe From To  6 5/8 12 Welded O 100 100 None 80 100  Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Diameter of Mud of Cement Cement Cement Action  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  No. Depth in Feet Cement Top Bottom of Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cement Cem |                   |                                                  |                                              |              | · · · · · · · · · · · · · · · · · · · |                | *************************************** |                |         |
| Diameter (inches)   Pounds per foot   Threads per in.   Top   Bottom (feet)   Type of Shoe   Perforations From   To   Top   Bottom (feet)   Type of Shoe   Perforations From   To   Top   Bottom   Top    |                   | ·                                                |                                              |              | -                                     |                |                                         |                |         |
| Diameter (inches)   Pounds per foot   Threads per in.   Top   Bottom (feet)   Type of Shoe   Perforations From   To   Top   Bottom (feet)   Type of Shoe   Perforations From   To   Top   Bottom   Top    | ,                 |                                                  | <u>.                                    </u> | Sectio       | n 3. RECORD                           | OF CASING      |                                         | <u> </u>       |         |
| Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Sacks Cubic Feet of Mud of Cement Method of Placement  Cement at top  Section 5. PLUGGING RECORD  ugging Contractor ddress ugging Method ate Well Plugged ugging approved by:    No.   Depth in Feet   Cubic Feet   Top   Bottom   Cement   Depth in Feet   Cubic Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Top   Bottom   Depth in Feet   Depth  |                   |                                                  | 1 <del></del>                                |              |                                       |                | Type of Sho                             | e <del></del>  |         |
| Section 4. RECORD OF MUDDING AND CEMENTING    Depth in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   | <del>                                     </del> |                                              |              |                                       |                | N                                       |                |         |
| Depth in Feet   Hole   Sacks   Cubic Feet   Method of Placement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>          | . 12                                             | werded                                       |              |                                       | 1              |                                         |                | 100     |
| Depth in Feet   Hole   Diameter   Of Mud   Of Cement   Method of Placement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                                  |                                              |              |                                       |                |                                         |                |         |
| Depth in Feet   Hole   Sacks   Cubic Feet   Method of Placement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | •                                                | Section                                      | on A RECOI   | S D OE MIIDD                          | INC AND CE     | MENTING                                 |                | _1      |
| Section 5. PLUGGING RECORD  lugging Contractor  ddress  lugging Method  ate Well Plugged  lugging approved by:  Cement at top  No. Depth in Feet  Top Bottom of Cemen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                                  | Hole                                         | Sack         | s C                                   | ubic Feet      |                                         | d of Placement |         |
| Section 5. PLUGGING RECORD  ugging Contractor  ddress ugging Method ate Well Plugged ugging approved by:  Section 5. PLUGGING RECORD  No. Depth in Feet Cubic Fee Top Bottom of Cemen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 TOIL            |                                                  | 1                                            | 0.7          | or Mud of Cer                         |                | 2                                       |                |         |
| Ungging Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | :                                                |                                              |              |                                       |                | Cement at                               | top            |         |
| No.   Depth in Feet   Cubic Feet   Unit of Cemen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <del></del>       |                                                  |                                              |              |                                       |                |                                         |                |         |
| No.   Depth in Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic Feet   Cubic F   |                   | <u> </u>                                         |                                              | L            |                                       |                | · · · · · · · · · · · · · · · · · · ·   | ·              |         |
| Mo.   Depth in Feet   Cubic Feet   State Well Plugged   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | lugging Contr     | actor                                            |                                              | Sectio       | n 5. PLUGGIN                          | G RECORD       |                                         |                |         |
| ate Well Plugged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ddress            |                                                  |                                              |              |                                       | No.            |                                         |                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ate Well Plugi    | ged                                              |                                              |              |                                       |                | 100                                     | Bottom 0       | Cement  |
| State Engineer Representative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | lugging appro     | ved by:                                          |                                              |              | entative                              | 3              |                                         |                |         |
| POR USE OF STATE ENGINEER ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                  | <del>-</del>                                 |              |                                       | <del></del>    |                                         |                |         |

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WELL RECORD

FIELD ENGR. LOG WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repeated or deepened. When this form is used as a plugging

| ecord, o.<br>Section 1 | •            | n 1A and         | Section 5 need                                                                           | •             |          |                           |                                         |                     |  |  |  |
|------------------------|--------------|------------------|------------------------------------------------------------------------------------------|---------------|----------|---------------------------|-----------------------------------------|---------------------|--|--|--|
|                        | <del></del>  |                  |                                                                                          |               |          |                           |                                         |                     |  |  |  |
|                        |              |                  |                                                                                          |               |          |                           | <del>x 13-B</del>                       |                     |  |  |  |
|                        |              |                  | City Hobbs New Mexico State Well was drilled under Permit NoL-5013 and is located in the |               |          |                           |                                         |                     |  |  |  |
|                        |              |                  | Well was                                                                                 | drilled un    | der Per  | mit NoL=501               | and                                     | is located in the   |  |  |  |
|                        |              |                  |                                                                                          | NF 1/4        | -ST      | 4 of Section              | L <del>5Twp198</del>                    | Rge <del>38F</del>  |  |  |  |
|                        |              | Į                | (B) Drilling Contractor J. P. Barton License No. 47-14 Street and Number Box 42          |               |          |                           |                                         |                     |  |  |  |
|                        |              |                  | Street and                                                                               | l Number<br>H | B        | 0x 42                     | *************************************** |                     |  |  |  |
|                        |              |                  | City                                                                                     | <u>ਜ਼ਰੂਬਰ</u> | <b>B</b> | ····                      | State                                   | New Lexico          |  |  |  |
|                        |              |                  | Diming A                                                                                 | vas commo     | encea    |                           |                                         | 6 <del>3</del>      |  |  |  |
| (P                     | lat of 640 s | cres)            | Drilling w                                                                               | as comple     | ted      | April 10                  |                                         | <del> 1963-</del> - |  |  |  |
| Elevation              | at top of    | casing i         | n feet above se                                                                          | a level       | A        | Total de                  | pth of well                             | 998 100'            |  |  |  |
| State wh               | ether wel    | l is shall       | ow or artesian.                                                                          | shall         | DM       | Depth to wa               | ter upon complet                        | ion 47!             |  |  |  |
| Section 2              | 2            |                  | PRIN                                                                                     | ICIPAL WA     | TER-BEA  | RING STRATA               |                                         |                     |  |  |  |
| No.                    | Depth ir     | To To            | Thickness in<br>Feet                                                                     |               | D        | escription of Water       | r-Bearing Formation                     | <b>.</b>            |  |  |  |
| 1                      | 53           | 61               | 81                                                                                       |               |          |                           |                                         |                     |  |  |  |
| 2                      | 86           | 91               | 51                                                                                       |               |          |                           |                                         |                     |  |  |  |
| 3                      |              |                  |                                                                                          |               |          |                           |                                         |                     |  |  |  |
| 4                      |              | P. U.M.          |                                                                                          |               |          |                           |                                         |                     |  |  |  |
| 5                      |              |                  |                                                                                          |               |          |                           | <del></del>                             |                     |  |  |  |
| Section 3              |              |                  |                                                                                          | RECOR         | D OF C   | ASING                     |                                         |                     |  |  |  |
| Dia                    | Pounds       | Threa            | ds De                                                                                    | pth           | Feet     | Type Shoe                 |                                         | ations              |  |  |  |
| in.                    | ft.          | in               | Тор                                                                                      | Bottom        |          | 1300 0000                 | From                                    | То                  |  |  |  |
|                        |              |                  |                                                                                          |               |          |                           |                                         |                     |  |  |  |
| <del></del>            |              |                  |                                                                                          |               |          |                           |                                         |                     |  |  |  |
|                        | <u> </u>     |                  |                                                                                          |               | ļ.—.—    |                           |                                         |                     |  |  |  |
|                        | <u> </u>     | <u> </u>         |                                                                                          | <u> </u>      |          |                           | <u> </u>                                | <u> </u>            |  |  |  |
| Section 4              | <u> </u>     | <del>- ,</del>   | RECOR                                                                                    | D OF MUD      | DING A   | ND CEMENTING              |                                         |                     |  |  |  |
|                        | in Feet      | Diame<br>Hole in |                                                                                          | No. Sa<br>Cem | 1 '      | •                         |                                         |                     |  |  |  |
| From                   | То           | Hole II          | in. Clay                                                                                 | Cen           | lent     |                           |                                         |                     |  |  |  |
| <del></del>            | ļ            |                  |                                                                                          |               |          |                           |                                         |                     |  |  |  |
|                        | <del> </del> | <del>- </del>    |                                                                                          |               |          |                           |                                         |                     |  |  |  |
|                        | <del></del>  | <del> </del>     |                                                                                          |               |          |                           |                                         |                     |  |  |  |
|                        | 1            | 1                |                                                                                          | 1             | <u> </u> |                           |                                         |                     |  |  |  |
| Section 5              | ,            | •                | •                                                                                        | PLUGG         | ING RE   | CORD                      |                                         |                     |  |  |  |
| Namer of               | Plugging     | Contrag          | torpr                                                                                    | OMU           |          | Sana ston                 | License No.                             |                     |  |  |  |
| 0.3                    | nd Numbe     | v                | •                                                                                        |               |          | Water Sand                |                                         |                     |  |  |  |
| Cons of C              | Clay used.   |                  | Tons of R                                                                                |               |          | •                         | ge of roughage                          |                     |  |  |  |
| <b>~</b> ,             | method u     | sed 5            |                                                                                          |               |          | gand stone                | gged                                    | 19                  |  |  |  |
| ננ                     | approved     | O                | pı                                                                                       | OMI           |          | Mater Sand<br>Cement Plus | s were placed as                        |                     |  |  |  |
| <b>50 C</b>            | ••           | •                | •                                                                                        |               | Г        | Depth of P                | lug                                     |                     |  |  |  |
|                        | ·····        |                  | Basin Sur                                                                                | ervisor       | N        | 0.                        | No. of                                  | Sacks Used          |  |  |  |
|                        | FOR USP      | OF STAT          |                                                                                          | NLY~          | 7 [      |                           |                                         |                     |  |  |  |
|                        |              | <del>-</del>     | AND VITALISM                                                                             | у<br>Этт      |          |                           |                                         |                     |  |  |  |
| Date F                 | Received _   |                  |                                                                                          | 1SV           | _        |                           |                                         |                     |  |  |  |
|                        |              | ٠,               | 1PR 30 AM 8:                                                                             | 1 2981        | -        | <del></del>               |                                         |                     |  |  |  |
|                        |              |                  |                                                                                          | -301          | -        |                           |                                         |                     |  |  |  |
|                        | ,            |                  | _                                                                                        |               | 18 -     |                           |                                         | 11                  |  |  |  |
| File No.               |              | 501              | 3                                                                                        | Use           | W 2      | Locatio                   | n No. 19.38.                            | 13.420              |  |  |  |



| (A) Owner of                      | well               | Mrs. R.              | . Scott       |                   |                     | Owner           | 's Well No                             |                           |  |
|-----------------------------------|--------------------|----------------------|---------------|-------------------|---------------------|-----------------|----------------------------------------|---------------------------|--|
|                                   | Post Office Ad     |                      |               |                   | ····                |                 |                                        |                           |  |
| City and                          | State Hobbs        | N.M. DO              | 240           |                   |                     | ···             |                                        |                           |  |
| Well was drilled                  | under Permit       | No. L-989            | 6             |                   | _ and is located    | in the:         |                                        |                           |  |
| •                                 | 1/. 1/             | א אור א              | F Katsa       | ection 15         | Township            | 19S Ran         | an 38E                                 | NMPM                      |  |
|                                   |                    | -                    |               |                   | •                   |                 | •                                      | 14.141.1 .141.            |  |
| b. Tract                          | No                 | of Map No.           |               | of the            |                     |                 |                                        |                           |  |
| c Lot N                           | 0                  | of Block No          |               | of the            | <u>.</u>            |                 |                                        |                           |  |
| Subdi                             | vision, recorde    | d inL                | ea            |                   | County.             |                 |                                        |                           |  |
| 4 V-                              |                    | faat V=              |               | feet N            | M. Coordinate       | System          |                                        | Zone in                   |  |
|                                   |                    |                      |               |                   |                     | System          |                                        |                           |  |
| (D) D IIII (                      |                    | C D 014              | alram         |                   |                     | License No      | UD-657                                 |                           |  |
| (B) Drilling (                    | ontractor          | Leste VIC            | aver          |                   | <del></del>         | License No      | WD-037                                 |                           |  |
| Address <u>P.</u> C               | Box 2321           | , Hobbs, N           | .M. 8824      | 0                 |                     |                 |                                        |                           |  |
| Drilling Regan                    | 2-15-87            | Come                 | alatad.       | 2-17-87           | Type tools          | Rotary          | Size of h                              | ole 7 in                  |  |
|                                   |                    |                      | •             |                   |                     |                 |                                        |                           |  |
| Elevation of la                   | nd surface or _    | 3650                 |               | at we             | ll is 3650          | ft. Total depth | of well1                               | 00ft.                     |  |
| Completed wel                     | 1.ie 1521 e        | hallow 🗆 a           | rtesian       |                   | Denth to water      | upon completion | of well                                | 38 ft.                    |  |
| completed wel                     |                    |                      |               |                   | Depth to water      | apon completion | 01 #011 1-111                          |                           |  |
|                                   |                    | 1                    | <del></del>   | CIPAL WATE        | R-BEARING ST        | RATA            |                                        | <del></del>               |  |
| From                              | in Feet<br>To      | Thickness<br>in Feet |               | Description of    | Water-Bearing F     | ormation        |                                        | ited Yield<br>per minute) |  |
| 110111                            | 10                 |                      | _             |                   |                     |                 |                                        |                           |  |
| 38                                | 100                | 62                   |               | Water             | Sand                |                 | 25 G P                                 | M                         |  |
|                                   |                    |                      |               |                   |                     |                 |                                        |                           |  |
|                                   |                    |                      |               |                   |                     |                 |                                        |                           |  |
|                                   |                    | <u> </u>             |               |                   |                     |                 |                                        |                           |  |
|                                   |                    |                      |               |                   |                     |                 |                                        |                           |  |
|                                   | ·                  | <u> </u>             |               |                   | 00.01000            |                 |                                        |                           |  |
| Disease                           | Daniel de          | T =========          |               | on 3. RECORD      | T                   | Τ               |                                        | erforations               |  |
| Diameter<br>(inches)              | Pounds<br>per foot | Threads per in.      | Тор           | in Feet<br>Bottom | Length<br>(feet)    | Type of Sho     | Fro                                    |                           |  |
|                                   |                    |                      |               |                   |                     |                 |                                        |                           |  |
| 5                                 | <u></u>            | <del> </del>         | 0             | 100               | 100                 | none            | 70                                     | 100                       |  |
|                                   |                    |                      |               |                   |                     |                 |                                        |                           |  |
|                                   |                    |                      | -             |                   |                     |                 |                                        |                           |  |
|                                   | L                  | <u> </u>             |               | 1                 | <u> </u>            | L               | l                                      |                           |  |
|                                   |                    | <del>,</del>         |               |                   | ING AND CEM         | ENTING          |                                        |                           |  |
| From                              | in Feet<br>To      | Hole<br>Diameter     | Sac<br>of M   |                   | ubic Feet<br>Cement | Metho           | d of Placement                         |                           |  |
|                                   |                    |                      | †             |                   |                     |                 | ······································ |                           |  |
|                                   | <br>               | 7                    | <del> </del>  |                   |                     |                 |                                        |                           |  |
|                                   |                    |                      |               | İ                 |                     |                 |                                        |                           |  |
| *                                 |                    |                      | 1             |                   |                     |                 |                                        |                           |  |
|                                   | L                  | <u> </u>             | <u> </u>      |                   |                     |                 |                                        |                           |  |
|                                   |                    |                      | Section       | on 5. PLUGGIN     | IG RECORD           |                 |                                        |                           |  |
| Phiagina Contr                    | actor              |                      |               | 2000              | O RECORE            |                 |                                        |                           |  |
| Address                           |                    |                      |               |                   | [,                  | Depth in I      | Feet                                   | Cubic Feet                |  |
|                                   | od                 |                      |               |                   | No.                 | Тор             | Bottom                                 | of Cement                 |  |
| Date Well Plugg<br>Plugging appro | ged<br>ved by:     |                      |               |                   | $\frac{1}{2}$       |                 |                                        |                           |  |
| 20 J -FF.                         |                    | 0                    | <del></del> _ |                   | $\frac{2}{3}$       |                 |                                        |                           |  |
|                                   |                    | State Eng            | ineer Repres  | entative          | 4                   |                 |                                        |                           |  |
|                                   |                    |                      | FOR USE       | OF STATE E        | GINEER ONL          | Y               |                                        |                           |  |
| ate Received                      | February           | 29, 1988             | _             | <u>.</u> .        |                     | ·               |                                        |                           |  |
|                                   |                    |                      |               | Quad              |                     | FWL _           |                                        | FSL                       |  |
| Eile Ne                           | L-9896             |                      |               | , I               | OOM                 | 19              | .38.15.42                              | 2124                      |  |

FIELD L. R. LOG

## STATE ENGINEER OFFICE WELL RECORD



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section 1         | Ĺ                     |                   | (4) 0                                 | ofall               | Havi                                  | ne Hallew                             |                    |                        |  |
|-------------------|-----------------------|-------------------|---------------------------------------|---------------------|---------------------------------------|---------------------------------------|--------------------|------------------------|--|
|                   |                       | ì                 | 1                                     |                     |                                       | .y                                    |                    |                        |  |
| -                 |                       |                   |                                       |                     |                                       |                                       |                    | lew Mexico             |  |
| <u> </u>          |                       |                   | <u></u>                               |                     |                                       |                                       |                    | i is located in the    |  |
|                   |                       |                   |                                       |                     |                                       |                                       |                    | Rge.                   |  |
|                   |                       |                   |                                       |                     |                                       |                                       |                    | nse No. WD 111         |  |
|                   |                       |                   | (B) Dim                               | Mumban              | actor                                 | Box 3                                 | 06                 | 115¢ 110:: <del></del> |  |
|                   |                       |                   | Street and                            | . Number :<br>ddoil | s                                     |                                       |                    | New Mexico             |  |
|                   |                       |                   | City                                  |                     | ·····                                 |                                       | April 23           | 19 59                  |  |
|                   |                       | ļ                 | Druing \                              | vas comm            | encea                                 |                                       | April 23           | 3 19 59                |  |
| (F                | Plat of 640 ac        | res)              | Drilling v                            | vas compi           | eted                                  |                                       |                    | 19                     |  |
|                   |                       |                   | feet ahove se                         | a level             |                                       | Total der                             | oth of well 11     | 12                     |  |
|                   |                       |                   |                                       |                     |                                       |                                       |                    | etion 60               |  |
| tate WI           | iculet well           | 13 3114110        | W OI WITCHILL                         |                     |                                       | Deput to wa                           | or upon compre     |                        |  |
| ection 2          | 2                     |                   | PRIN                                  | ICIPAL WA           | ATER-BEAR                             | ING STRATA                            |                    |                        |  |
| No.               | Depth in              | 1                 | Thickness in                          |                     | De                                    | scription of Water                    | -Bearing Formation | on                     |  |
|                   | From                  | То                | Feet                                  |                     |                                       |                                       |                    |                        |  |
| 1                 | 60                    | 122               | 62                                    | ate                 | r sand                                |                                       |                    |                        |  |
| 2                 |                       |                   |                                       |                     |                                       |                                       |                    |                        |  |
| 3                 |                       |                   |                                       |                     |                                       |                                       |                    |                        |  |
| 4                 | <del></del>           |                   |                                       | <del></del>         | · · · · · · · · · · · · · · · · · · · |                                       |                    |                        |  |
| 5                 |                       | -                 | , , , , , , , , , , , , , , , , , , , |                     |                                       |                                       |                    |                        |  |
| <u> </u>          |                       | !                 |                                       | <u> </u>            |                                       | · · · · · · · · · · · · · · · · · · · |                    |                        |  |
| ection :          | 3                     |                   |                                       | RECOR               | D OF CA                               | SING                                  |                    |                        |  |
| Dia               | Pounds                | Threa             | ds De                                 | pth                 | Feet                                  | Type Shoe Perforations                |                    |                        |  |
| in.               | ft.                   | in                | Top                                   | Bottom              | 1 661                                 | Type Shoe                             | From               | То                     |  |
| 7                 | 24                    | 10                | 0                                     | 112                 | 112                                   | Plain                                 | 78                 | 112                    |  |
|                   |                       | Ĭ                 |                                       |                     |                                       |                                       |                    |                        |  |
|                   |                       |                   |                                       |                     |                                       |                                       |                    |                        |  |
|                   |                       |                   |                                       |                     |                                       |                                       |                    |                        |  |
|                   |                       |                   |                                       |                     |                                       |                                       |                    |                        |  |
| ection 4          | 4                     | <del></del>       | RECOR                                 | <del></del>         |                                       | ID CEMENTING                          |                    |                        |  |
|                   | h in Feet             | Diamet<br>Hole in |                                       | 1                   | icks of                               | Methods Used                          |                    |                        |  |
| From              | То                    | Hole III          |                                       |                     | icat.                                 | · · · · · · · · · · · · · · · · · · · |                    |                        |  |
|                   | 4                     | ļ                 |                                       |                     |                                       |                                       |                    |                        |  |
| <del></del>       |                       |                   |                                       |                     |                                       | · · · · · · · · · · · · · · · · · · · |                    |                        |  |
|                   |                       | ļ                 |                                       |                     |                                       |                                       |                    |                        |  |
|                   | <u> </u>              | <u> </u>          |                                       | -                   |                                       |                                       | ·-·                |                        |  |
| ection 5          | 5                     |                   |                                       | PLUGG               | SING REC                              | ORD                                   |                    |                        |  |
|                   |                       | Contract          | .0.                                   |                     |                                       |                                       | Tinon N-           |                        |  |
|                   |                       |                   |                                       |                     |                                       |                                       |                    | ), <u></u>             |  |
|                   | na Number             |                   |                                       |                     |                                       | *                                     |                    |                        |  |
|                   |                       |                   |                                       | oughage t           | ısed                                  |                                       |                    |                        |  |
| ons of            | =                     |                   |                                       |                     | <del></del>                           | -                                     | _                  | 19                     |  |
| ons of lugging    | method us             |                   |                                       |                     | •                                     | Cement Plug                           | s were placed as   | s follows:             |  |
| ons of lugging    | =                     |                   |                                       |                     |                                       |                                       |                    |                        |  |
| ons of lugging    | method us             |                   |                                       |                     | No                                    | Depth of Pl                           |                    | Sacks Used             |  |
| ons of lugging    | method us             |                   | Basin Sur                             | ervisor             | No                                    | Pepth of Plus                         |                    | Sacks Used             |  |
| ons of lugging    | method us             | by:               |                                       | -                   | No                                    |                                       |                    | f Sacks Used           |  |
| ons of Clugging   | method us             | by:               | Basin Sup                             | -                   | No                                    |                                       |                    | f Sacks Used           |  |
| ons of lugging    | method us             | by:               | Basin Sup                             | -                   | No                                    |                                       |                    | f Sacks Used           |  |
| Cons of Consoling | method us<br>approved | by:               | Basin Sup                             | -                   | No                                    |                                       |                    | f Sacks Used           |  |
| ons of lugging    | method us<br>approved | by:               | Basin Sup                             | -                   | No                                    |                                       |                    | f Sacks Used           |  |

STATE MIGINEER OFFICE EIELD ENGR. LOG WELL RECORD INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed. Section 1 J R Barton (A) Owner of well... Street and Number 920 Fast Gypsy Hobbs State N M. Well was drilled under Permit No. L-4622 and is located in the 15 14 10 14 10 14 10 Section 15 Twp 198 Rge 380 7 (B) Drilling Contractor J B Barton License No.WD14 Street and Number 920 E Cypsy Hobbs State \_\_\_\_ June-1 19**61** Drilling was commenced..... june-1 19 **61** Drilling was completed\_\_\_\_\_ (Plat of 640 acres) Elevation at top of casing in feet above sea level Total depth of well 70 feet State whether well is shallow or artesian Shallow Depth to water upon completion 46 PRINCIPAL WATER-BEARING STRATA Section 2 Thickness in Depth in Feet Description of Water-Bearing Formation No. Feet From To 46 70 24 watersand and loose rock Section 3 RECORD OF CASING 7 inch curb.4 feet. Depth Perforations Dia Pounds Threads Type Shoe Bottom Top

RECORD OF MUDDING AND CEMENTING Section 4 Depth in Feet Diameter No. Sacks of Tons Methods Used Hole in in. Clay Cement From

PLUGGING RECORD Section 5 Name of Plugging Contractor\_\_\_\_ \_\_\_\_License No.\_\_\_\_ Street and Number\_\_\_\_ \_\_\_ City\_\_\_\_\_ State\_ Tons of Clay used \_\_\_\_\_Tons of Roughage used \_\_\_\_\_ \_\_\_Type of roughage\_\_\_\_ Plugging method used\_\_\_\_\_ Date Plugged\_\_

| -    | '/ Basin Super                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | visor     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|      | no sections at the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t | Y         |
| Date | Received :8 WV S   On 196:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | \ <u></u> |

Plugging approved by:

| No.  | Depth    | of Plug | No. of Sacks Used  |
|------|----------|---------|--------------------|
| 110. | From     | To      | 110. Of Sacks Used |
| -    |          |         |                    |
|      |          |         |                    |
|      |          |         |                    |
|      |          |         |                    |
|      | <u> </u> |         |                    |

Cement Plugs were placed as follows:

/\_- 4622 Use \_\_\_\_ 1) a m Location No. 19.38.15.422

richt brown live

### Section 1. GENERAL INFORMATION

| Street or              | Post Office Ad                         | rry Morr                              | O. BOX         | 2096                                  |                                       | Owner                  | 's Well No          |                         |
|------------------------|----------------------------------------|---------------------------------------|----------------|---------------------------------------|---------------------------------------|------------------------|---------------------|-------------------------|
| •                      |                                        |                                       |                | o 8824                                |                                       | ad in the              |                     |                         |
|                        |                                        |                                       |                |                                       |                                       |                        |                     |                         |
|                        |                                        |                                       |                |                                       | -                                     | 198 Rang               |                     |                         |
|                        |                                        | -                                     |                |                                       |                                       |                        |                     | ·                       |
| c. Lot No              | ision recorde                          | of Block No                           |                | of the                                | County The                            | Grande<br>ence S 6º10' | W 416               | ft thoma                |
| S 89                   | 057'E                                  | 104 ft                                | thence         | N 00101                               | E 416 ft                              | t thence N             | 89 <sup>0</sup> 571 | W 104 ft.               |
|                        |                                        | _ feet, Y=                            |                |                                       | .M. Coordinate                        | e System to pol        |                     | Zone in Grant.          |
| B) Drilling C          | ontractor                              | C. M.                                 | <u>Griffin</u> |                                       |                                       | License No             | WD-603              |                         |
| ddress                 | P. O. Bo                               | ox 2096                               | . Hobb         | s. New Me                             | xico                                  | 88240                  |                     |                         |
| rilling Began .        | 5/26/75                                | Com                                   | pleted5        | /31/75                                | _ Type tools_                         | Spudder                | Size of h           | ole <u>8</u> in.        |
| levation of lan        | d surface or _                         |                                       |                | at we                                 | ll is                                 | ft. Total depth o      | of well1            | 20 ft.                  |
| ompleted well          | is <b>XX</b> s                         | hallow 🔲                              | artesian.      |                                       | Depth to wat                          | er upon completion     | of well 44          | ft.                     |
| •                      |                                        |                                       |                | ICIPAL WATE                           |                                       |                        |                     |                         |
| Depth i                | n Feet                                 | Thickness                             |                |                                       |                                       |                        | Estima              | ted Yield               |
| From                   | То                                     | in Feet                               |                | Description of                        | Water-Bearing                         | Formation              | (gallons            | per minute)             |
| 49                     | 120                                    | 71                                    | Red            | l sand wi                             | th sand                               | rock string            | ers                 | 25                      |
|                        |                                        |                                       |                |                                       |                                       |                        |                     |                         |
| ,                      |                                        |                                       |                |                                       | · · · · · · · · · · · · · · · · · · · |                        |                     |                         |
|                        |                                        |                                       |                | <del></del>                           | <del></del>                           |                        |                     |                         |
|                        |                                        | l                                     |                |                                       |                                       |                        |                     |                         |
|                        |                                        | T T                                   |                | n 3. RECORD                           | 1                                     |                        |                     |                         |
| Diameter<br>(inches)   | Pounds per foot                        | Threads per in.                       | Тор            | in Feet<br>Bottom                     | Length<br>(feet)                      | Type of Shoe           | From                | n To                    |
| 6 5/8                  |                                        |                                       | Q              | 120                                   | 120                                   |                        | 90                  | 120                     |
|                        |                                        |                                       |                |                                       | 120                                   |                        | 90                  | 120                     |
|                        |                                        |                                       |                |                                       |                                       |                        | <del></del>         |                         |
|                        |                                        | Li.                                   |                |                                       | <u> </u>                              |                        |                     |                         |
| Da-th :                | - Foot                                 | 1                                     | 1              | RD OF MUDD                            |                                       | MENTING                |                     |                         |
| Depth i                | To                                     | Hole<br>Diameter                      | Sac<br>of M    |                                       | ubic Feet<br>f Cement                 | Method                 | of Placeme          | nt                      |
| 38                     | 120                                    | 8                                     | 6              |                                       |                                       | Gel mixed w            |                     |                         |
|                        |                                        |                                       | <u>-</u>       |                                       |                                       | GET MIXED W            | LUI WBU             | :r                      |
|                        |                                        |                                       | <del> </del>   |                                       |                                       |                        |                     |                         |
|                        |                                        |                                       |                |                                       |                                       |                        |                     |                         |
|                        |                                        |                                       | Section        | on S. PLUGGIN                         | IG RECORD                             |                        |                     |                         |
| lugging Contra         |                                        |                                       | <del> </del>   | <del>.</del>                          | —— ;                                  |                        |                     |                         |
| ddress<br>ugging Mctho |                                        |                                       |                |                                       | No.                                   | Depth in F             | Bottom              | Cubic Feet<br>of Cement |
|                        | ed                                     | · · · · · · · · · · · · · · · · · · · |                | · · · · · · · · · · · · · · · · · · · | $-\frac{1}{2}$                        |                        |                     |                         |
| regions approv         |                                        | C4-4- F                               | ninan- D       |                                       |                                       |                        |                     |                         |
|                        | ************************************** | State Eng                             | gineer Repres  | entative                              | 4                                     |                        |                     |                         |
|                        |                                        |                                       | E08 1145       |                                       |                                       | /                      | 138 /               | 5 .1231                 |
| ate Received           |                                        |                                       | FOR USE        | OF STATE E                            | nginee <b>r o</b> n                   | LY /                   | 1. 5611             | الرياء.                 |

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section  | 1           |                                       |                  | (A) Owne        | er of well   | M             | The                |                     |                                         |
|----------|-------------|---------------------------------------|------------------|-----------------|--------------|---------------|--------------------|---------------------|-----------------------------------------|
|          |             |                                       |                  |                 |              |               |                    | rlend               |                                         |
|          |             | 1                                     |                  |                 |              |               |                    | State No            |                                         |
| 1        | 1           |                                       |                  |                 |              |               |                    |                     |                                         |
|          |             |                                       |                  |                 |              | 1             | 4 of Section       | Twp.                | Rge.                                    |
| -        | ++          |                                       |                  | (B) Drilli      | ing Contra   | actor         | P Roston           | Licen               | se No                                   |
| }        | 1 1         |                                       | - }              |                 |              |               | : 42               |                     | HDI                                     |
|          |             |                                       |                  | City            |              |               | hobbs              | State               | я м.                                    |
|          | 1 1         |                                       |                  |                 |              |               |                    | <del></del>         |                                         |
|          |             |                                       |                  |                 |              |               |                    | •                   |                                         |
| •        | Plat of 640 |                                       |                  |                 |              |               | •                  |                     | • • • • • • • • • • • • • • • • • • • • |
|          |             |                                       |                  |                 |              |               |                    | pth of well 100     |                                         |
| State w  | hether w    | ell is shall                          | ow o             | r artesian_     | Shallo       | <b>A</b>      | Depth to wa        | ter upon complet    | tion 48 feet                            |
| Section  | 2           |                                       |                  | PRIN            | CIPAL WA     | ATER-BEAI     | RING STRATA        |                     |                                         |
| No.      | Depth       | in Feet                               | Th               | ickness in      |              | D             | escription of Wate | r-Bearing Formation |                                         |
| 140.     | From        | To                                    |                  | Feet            |              |               |                    | - 202-25 1 412-44   |                                         |
| 1        |             | -                                     |                  | 3               |              |               | 1                  |                     |                                         |
| 2        |             |                                       | 1                | -4              | ae           | <u>rk 601</u> | 1                  |                     |                                         |
| 3        |             | 10                                    |                  |                 |              |               |                    |                     |                                         |
| 4        | 48          | 65                                    | <del> </del>     | 17              | wat          | ersand        |                    |                     | <del></del>                             |
| 5        | 90          | 100                                   |                  | 10              | wat          | ersand        |                    |                     |                                         |
|          | 1           | <u> </u>                              | <u>!</u>         |                 | <u> </u>     |               |                    |                     |                                         |
| Section  | 3           |                                       |                  |                 | RECOR        | D OF CA       | SING               |                     |                                         |
| Dia      | Pounds      | s Three                               | ads              | De              |              | Feet          | Type Shoe          | 1                   | rations                                 |
| in.      | ft.         | ni                                    |                  | Top             | Bottom       |               | 1                  | From                | To                                      |
| 7        |             |                                       |                  |                 |              | 8             |                    | For Curb            |                                         |
|          | _           |                                       |                  | <u> </u>        |              |               |                    |                     |                                         |
|          |             |                                       |                  | ļ               |              |               |                    |                     |                                         |
|          | <u> </u>    |                                       |                  | <u> </u>        | <u> </u>     | <u> </u>      | <u> </u>           | <u> </u>            | /                                       |
| Section  | 4           |                                       |                  | RECOR           | D OF MU      | DING A        | ND CEMENTING       |                     |                                         |
|          | th in Feet  | Diam                                  | eter             | Tons            | No. Sa       |               |                    | :                   | <del></del>                             |
| From     | То          | Hole i                                |                  | Clay            | I            | ent           |                    | Methods Used        |                                         |
|          |             | 7                                     |                  |                 |              |               |                    |                     |                                         |
|          |             |                                       |                  |                 |              |               |                    |                     |                                         |
|          |             |                                       |                  |                 |              |               |                    |                     |                                         |
|          |             |                                       |                  |                 |              |               |                    |                     | <del></del>                             |
|          |             | · · · · · · · · · · · · · · · · · · · |                  | •               |              | <u> </u>      |                    |                     |                                         |
| Section  | 5           |                                       |                  |                 | PLUGE        | SING REC      | ORD                |                     |                                         |
| Name o   | of Pluggin  | g Contrac                             | tor              |                 | ····         |               |                    | License No.         |                                         |
| Street a | and Numb    | oer                                   |                  |                 |              | _ City        |                    | State               |                                         |
| Cons of  | Clay use    | d                                     |                  | Tons of R       | oughage v    |               | _                  | pe of roughage_     |                                         |
| Pluggin  | g method    | used                                  |                  | <del></del>     |              |               | Date Plu           | igged               | 19                                      |
| Pluggin  | g approve   | ed by:                                |                  |                 |              |               | Cement Plu         | gs were placed as   | follows:                                |
| _        |             |                                       |                  |                 |              | N             | Depth of P         | Tug No of           | Sacks Used                              |
|          |             |                                       | ي نا             | Basin Sur       | ervisor      |               | From '             | ro No. or           | . Jacks Used                            |
|          | FOR U       | 41-41-1                               | 1 . ;            | IGENEER O       |              |               | _                  |                     |                                         |
|          |             | ROFFICE                               | الاردد           | INE ENG         | s IB         |               |                    |                     |                                         |
| Date     | Received    |                                       |                  |                 | 1            |               |                    |                     |                                         |
|          |             | 70 'A HI                              | 1 60             | : NUN 096       | ol .         |               |                    |                     |                                         |
|          |             |                                       |                  |                 | _            |               |                    |                     |                                         |
|          | / //        | 410                                   |                  |                 | . <i>(</i> ) | 10            | fal.               | . 130               | 14 1/3-1                                |
|          |             | ATE TO BE<br>W OLLICE<br>IH 8: SA     | איבוני<br>ויובני | 141 165 (1) (2) | S ff         | m 8 3         |                    | on No. 19.38        | 15 424                                  |



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

|                                            |                                                                      |                | (A) O                              | or of wall   | HARI                                  | IN & HOUSE                            | OM 180                                   |                                               |
|--------------------------------------------|----------------------------------------------------------------------|----------------|------------------------------------|--------------|---------------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------------|
|                                            |                                                                      |                |                                    |              |                                       | 102                                   |                                          |                                               |
|                                            |                                                                      | 1              |                                    |              |                                       |                                       |                                          |                                               |
|                                            | <b> </b> -                                                           |                |                                    |              |                                       |                                       |                                          | d is located in t                             |
|                                            |                                                                      |                |                                    |              |                                       |                                       |                                          | Rge.∄ध                                        |
|                                            |                                                                      |                |                                    |              |                                       |                                       | -                                        | nse No. 1-46                                  |
|                                            | '                                                                    |                | Street on                          | -            |                                       |                                       |                                          | 1100 110                                      |
| #5                                         | 0716                                                                 | <u>- 84 -,</u> |                                    |              |                                       | ·                                     |                                          |                                               |
|                                            |                                                                      |                | 1 *                                |              |                                       | NOV. 15.                              |                                          |                                               |
|                                            |                                                                      |                | 1 -                                |              |                                       |                                       |                                          | 19                                            |
| (1                                         | Plat of 640 a                                                        | icres)         | — Driming                          | was compr    |                                       | ·····                                 | · · · · · · · · · · · · · · · · · · ·    |                                               |
| Clevatio                                   | on at top of                                                         | casing i       | n feet above se                    | ea level     |                                       | Total dep                             | th of well 12                            | ; •                                           |
| tate w                                     | hether wel                                                           | l is shall     | low or artesian                    |              |                                       | Depth to wat                          | er upon comple                           | etion <u>50</u>                               |
| ection                                     | 2                                                                    |                | PRI                                | NCIPAL W     | ATER-BEAR                             | ING STRATA                            |                                          |                                               |
| No.                                        | Depth is                                                             |                | Thickness in                       |              | De                                    | scription of Water-                   | Bearing Formation                        | on                                            |
|                                            | From                                                                 | То             | Feet                               |              |                                       |                                       |                                          | <u>, , , , , , , , , , , , , , , , , , , </u> |
| 1                                          | - 4C                                                                 | 123            | 83                                 | water        | send                                  |                                       | <del></del>                              |                                               |
| 2                                          |                                                                      |                |                                    |              |                                       |                                       |                                          |                                               |
| 3                                          |                                                                      |                |                                    |              |                                       |                                       |                                          |                                               |
| 4                                          |                                                                      |                |                                    | 1            | · · · · · · · · · · · · · · · · · · · | <del></del>                           |                                          |                                               |
| 5                                          |                                                                      | <del></del>    | <del> </del>                       | 1            |                                       |                                       |                                          |                                               |
| <u></u>                                    | <u>'</u>                                                             |                | <u>.!</u>                          |              |                                       |                                       |                                          |                                               |
| ection                                     | 3                                                                    |                |                                    | RECOR        | D OF CA                               | SING                                  |                                          |                                               |
| Dia                                        | Pounds                                                               | Thre           | - I                                | epth Potton  | Feet                                  | Type Shoe                             |                                          | orations                                      |
| in.                                        | ft.                                                                  | in             |                                    | Bottom       | 107                                   |                                       | From                                     | То                                            |
| <u> </u>                                   | 23                                                                   | "              | 1                                  | 123          | 123                                   | none                                  | 50                                       | 125                                           |
| · · · · · · · · · · · · · · · · · · ·      | ļ                                                                    |                |                                    | <del> </del> |                                       | <del> </del>                          |                                          | <b>_</b>                                      |
|                                            |                                                                      | <del></del>    |                                    | <del> </del> |                                       |                                       |                                          |                                               |
|                                            |                                                                      | <u> </u>       | <u> </u>                           |              | <u> </u>                              |                                       | <del></del>                              |                                               |
| ection                                     | 4                                                                    |                | RECO                               | RD OF MUI    | ODING AN                              | ID CEMENTING                          |                                          |                                               |
| Dept                                       | h in Feet                                                            | Diam           | eter Tons                          | No. Sa       | cks of                                |                                       |                                          |                                               |
| From                                       |                                                                      | Hole i         |                                    |              | ent                                   |                                       | Methods Used                             |                                               |
| ······································     |                                                                      | 1              |                                    |              |                                       |                                       | · · · · · · · · · · · · · · · · · · ·    |                                               |
|                                            |                                                                      |                |                                    |              |                                       |                                       |                                          |                                               |
|                                            |                                                                      |                | <del></del>                        |              |                                       |                                       |                                          | <del></del>                                   |
|                                            |                                                                      |                |                                    | i            | i                                     |                                       |                                          |                                               |
|                                            |                                                                      | +              |                                    |              |                                       | 4                                     |                                          |                                               |
|                                            | <u> </u>                                                             | <u> </u>       |                                    |              |                                       | · · · · · · · · · · · · · · · · · · · |                                          |                                               |
|                                            | 5                                                                    |                |                                    |              | SING REC                              | ORD                                   |                                          |                                               |
| ame o                                      | 5<br>f Plugging                                                      |                |                                    |              |                                       | ORD                                   |                                          |                                               |
| ame o                                      | 5 f Plugging                                                         | r              |                                    |              | City                                  | ORD                                   | State                                    |                                               |
| ame of                                     | 5 f Plugging and Numbe Clay used                                     | r              | Tons of I                          |              | City                                  | ORD                                   | State                                    |                                               |
| ame of                                     | 5 f Plugging and Numbe Clay used                                     | r              |                                    | Roughage 1   | City                                  | ORD<br>Typ                            | Statee of roughage_                      |                                               |
| ame on<br>treet a<br>ons of<br>lugging     | 5 f Plugging and Numbe Clay used                                     | r              | Tons of I                          | Roughage 1   | City                                  | ORD Typ Date Plug                     | Statee of roughage_                      | 19                                            |
| ame of treet a                             | 5 f Plugging and Numbe Clay used g method u                          | r              | Tons of I                          | Roughage (   | _ City                                | ORD  Typ  Date Plug  Cement Plugs     | State e of roughage_ ged s were placed a | 19<br>s follows:                              |
| ame of                                     | 5 f Plugging and Numbe Clay used g method u                          | r              | Tons of I                          | Roughage (   | City                                  | ORD  Typ  Date Plug  Cement Plugs     | State e of roughage_ ged s were placed a | 19                                            |
| lame of                                    | 5 If Plugging and Number Clay used g method ug approved              | ssed           | Tons of I                          | Roughage t   | _ City                                | ORD Typ Date Plug Cement Plugs        | State e of roughage_ ged s were placed a | 19<br>s follows:                              |
| street a<br>Cons of<br>Plugging            | 5 If Plugging and Number Clay used g method ug approved              | ssed           | Tons of I                          | Roughage t   | _ City                                | ORD Typ Date Plug Cement Plugs        | State e of roughage_ ged s were placed a | s follows:                                    |
| Name of<br>Street a<br>Cons of<br>Plugging | 5 If Plugging and Number Clay used g method ug approved              | by:            | Tons of I  Basin Su  TE ENGINEER ( | Roughage t   | _ City                                | ORD Typ Date Plug Cement Plugs        | State e of roughage_ ged s were placed a | 19<br>s follows:                              |
| Name of<br>Street a<br>Cons of<br>Plugging | f Plugging<br>and Number<br>Clay used<br>g method used<br>g approved | by:            | Tons of I  Basin Su  TE ENGINEER O | Roughage u   | _ City                                | ORD Typ Date Plug Cement Plugs        | State e of roughage_ ged s were placed a | 19<br>s follows:                              |
| lame of<br>treet a<br>fons of<br>lugging   | f Plugging<br>and Number<br>Clay used<br>g method used<br>g approved | by:            | Tons of I  Basin Su  TE ENGINEER O | Roughage t   | _ City                                | ORD Typ Date Plug Cement Plugs        | State e of roughage_ ged s were placed a | 19<br>s follows:                              |



### Section 1. GENERAL INFORMATION

| (A) Owner of          | well                    | <u> </u>             | Spragio           | <u>ey</u><br>197                      |                  | Owner's W              | /ell No                  |                                         |
|-----------------------|-------------------------|----------------------|-------------------|---------------------------------------|------------------|------------------------|--------------------------|-----------------------------------------|
| Street or<br>City and | Post Office Ad<br>State | dress Hob            | bs, N.M           | 88240                                 | •                |                        |                          |                                         |
| Well was drilled      |                         |                      | n 322             |                                       |                  | 41.4                   |                          |                                         |
|                       |                         | ne <del>l</del>      |                   |                                       |                  |                        |                          |                                         |
| a                     | _ <u> </u>              | <del>-NW</del> - %   | SE ¼ of Se        | ction <u>-17</u>                      | 15 Township_     | 19S Range _            | 38E                      |                                         |
| b. Tract              | No                      | of Map No.           |                   | of the                                |                  |                        |                          |                                         |
|                       |                         |                      |                   |                                       |                  |                        |                          |                                         |
| c. Lot No<br>Subdiv   | vision, recorded        | in <u>Lea</u>        |                   | or the                                | County.          |                        |                          |                                         |
| 4 V-                  |                         | (aa. V-              |                   | foot N                                | M. Coordinate    | System                 |                          | 7                                       |
|                       |                         |                      |                   |                                       | .m. Cooldinate   |                        |                          |                                         |
| (B) Drilling C        | ontractor               | Ala                  | n Eades           |                                       |                  | License No             | WD-1044                  |                                         |
| -                     |                         |                      |                   |                                       |                  | 88240                  |                          |                                         |
|                       |                         |                      |                   |                                       | <b>(1</b> )      | :                      |                          |                                         |
| Drilling Began .      | 4-13-93                 | Com                  | pleted <u>4</u> . | -13-93                                | _ Type tools _   | -Rotary                | Size of hole_            | <u>8in</u> .                            |
| Elevation of lar      | nd surface or           |                      |                   | at wel                                | 11 is            | ft. Total depth of v   | /ell13                   | 3fr                                     |
|                       |                         |                      |                   |                                       |                  | •                      |                          |                                         |
| Completed well        | الع لك علا              | nallow 🗀 a           | artesian.         | •                                     | Depth to wate    | r upon completion of v | veII44                   | ft.                                     |
|                       |                         | Sec                  | tion 2. PRIN      | CIPAL WATE                            | R-BEARING S      | TRATA                  |                          |                                         |
| Depth<br>From         | in Feet<br>To           | Thickness<br>in Feet | '   1             | Description of                        | Water-Bearing    | Formation              | Estimated (gallons per i |                                         |
| 44                    | 133                     | 89                   | Sano              | 1 & Sande                             | tone Str         | ingons                 |                          |                                         |
|                       |                         |                      | Sar               | idstone,                              | Sand & (         | ravel                  | 35                       |                                         |
|                       |                         |                      |                   |                                       |                  |                        |                          |                                         |
|                       |                         |                      |                   |                                       |                  |                        |                          |                                         |
|                       |                         |                      |                   | · · · · · · · · · · · · · · · · · · · |                  |                        |                          |                                         |
|                       |                         | <u> </u>             |                   |                                       |                  |                        | ,                        |                                         |
| ·                     |                         | <del></del>          |                   | n 3. RECORD                           | OF CASING        | <del></del>            |                          |                                         |
| Diameter (inches)     | Pounds<br>per foot      | Threads per in.      | Top               | in Feet<br>Bottom                     | Length<br>(feet) | Type of Shoe           | From                     | To To                                   |
| 5 3/4                 | 160000                  |                      |                   |                                       |                  |                        |                          |                                         |
| 3 3/4                 | 160psi                  |                      |                   |                                       | 133              | <del> </del>           | 113                      | 133_                                    |
|                       |                         |                      |                   |                                       |                  |                        | <b>_</b>                 |                                         |
|                       | ,                       |                      |                   |                                       |                  |                        |                          |                                         |
|                       |                         | Secti                | on 4 RECO         | RD OF MUDD                            | ING AND CEA      | (ENTING                |                          |                                         |
| Depth                 | in Feet                 | Hole                 | Sack              | s Cu                                  | bic Feet         |                        | Placement                |                                         |
| From                  | То                      | Diameter             | of Mi             | ud of                                 | Cement           |                        |                          | ·· - ·· · · · · · · · · · · · · · · · · |
|                       |                         |                      |                   |                                       |                  |                        |                          |                                         |
|                       |                         |                      |                   | ł                                     |                  |                        |                          |                                         |
|                       |                         |                      | 1                 | -                                     |                  | <del></del>            |                          |                                         |
|                       |                         | <u> </u>             | 1                 |                                       |                  |                        |                          |                                         |
|                       |                         |                      | Sectio            | n 5. PLUGGIN                          | G RECORD         |                        |                          |                                         |
| Plugging Contri       | actor                   | ·                    |                   |                                       | <del></del>      |                        |                          |                                         |
|                       | d                       |                      |                   | <u>,</u>                              | No.              | Depth in Feet          |                          | bic Feet<br>Cement                      |
| Date Well Plugg       | ged                     |                      |                   |                                       |                  | Тор Во                 | ttom of                  | Cement                                  |
| Plugging approv       | red by:                 |                      |                   |                                       | 3                |                        |                          |                                         |
|                       | <del></del>             | State Eng            | ineer Repress     | entative                              | 4                |                        |                          |                                         |
|                       |                         |                      | FOR USE           | OF STATE EN                           | GINEER ON        | LY                     |                          | ****                                    |
| Date Received         | May 7, 19               | 993                  |                   |                                       | _                | -                      |                          |                                         |
|                       | -                       |                      |                   | -                                     |                  | FWL                    |                          |                                         |
|                       | L-10,32                 | 2                    |                   | Use                                   | D&S              | Location No. 19.       | 38.15.424                | 24                                      |
| $\wedge$              |                         |                      | _                 |                                       |                  |                        |                          |                                         |

BELD GR. LOG

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| ection     | 1             |                   |                    | (A) Owne    | r of well.                              | Ham       | ls 21 . F1      | merch to be                             |                   |
|------------|---------------|-------------------|--------------------|-------------|-----------------------------------------|-----------|-----------------|-----------------------------------------|-------------------|
|            |               | Ì                 | 5                  | Street and  | Number                                  |           |                 |                                         |                   |
|            |               |                   |                    | City        | *************************************** |           | 1-0/3           | State <u>//</u>                         | _///              |
|            |               |                   | 7                  | Well was    | drilled un                              | der Perm  | it No. 3 6 2    | and                                     | is located in the |
|            |               |                   | [-                 | 16 14       | 1/5 1/4                                 | <u>از</u> | of Section 13   | Twp                                     | Rge 58 5          |
|            |               |                   | _  ʻ               | (B) Drilli  | ng Contra                               | actor     | BARTUN          | State // and Twp. 17                    | se No.WVIT        |
| }          |               |                   | 18                 | Street and  | Number_                                 | 2 (C) -   | -               |                                         |                   |
|            |               | ा                 | 1.0                |             |                                         |           |                 | State <u> </u>                          | 1 1/1             |
|            |               |                   |                    | Orilling w  | as comme                                | enced     | -1-             | ·····                                   | 19 <sup>5 4</sup> |
|            | Plat of 640   |                   | 1                  | Drilling wa | as comple                               | ted       |                 | *************************************** |                   |
| Clevatio   | on at top o   | of casing         | in feet            | above sea   | level                                   |           | Total de        | oth of well 142                         |                   |
| State w    | hether we     | ell is shal       | low or             | artesian_   | 3 dine                                  | ton       | Depth to wa     | pth of well 142<br>ter upon completi    | ion 52            |
| Section    |               |                   |                    |             |                                         |           | NG STRATA       |                                         |                   |
|            |               | in Feet           | Thic               | kness in    |                                         |           |                 | r-Bearing Formation                     |                   |
| No.        | From          | To                | 1 _:               | Feet        |                                         | Des       | Cubnon or agree | L-Dearing a ormation                    |                   |
| 1          | 52            | 68                |                    | 16          |                                         | wat       | uzzand          |                                         |                   |
| 2          | 40            | 10%               | 1                  | 15          |                                         | Wa        | Terrand         | <del></del>                             |                   |
| 3          | 132           | 138               | †                  | 6           | <del></del>                             | WATE      | respond         |                                         |                   |
| 4          |               |                   | <del> </del>       |             |                                         |           |                 |                                         |                   |
| 5          |               | <b></b>           | +                  |             |                                         |           |                 |                                         |                   |
| Section    | ?<br>?        | <u> </u>          | 1                  |             | RECOR                                   | D OF CAS  | ING             |                                         |                   |
|            | 1             | Thre              | -40                | Dep         |                                         | l         | 1               | Perfor                                  | etions            |
| Dia<br>in. | Pounds<br>ft. | in                | 1.                 | Top         | Bottom                                  | Feet      | Type Shoe       | From                                    | To                |
| 15 74      | 177           | We                | Ela                | 0           | 142                                     | 142       | lone            | 100                                     | 142               |
| <u> </u>   |               | _                 |                    |             |                                         |           | 7.5             |                                         |                   |
|            |               |                   |                    |             |                                         |           |                 |                                         |                   |
|            |               |                   |                    |             |                                         |           |                 |                                         |                   |
| Section    | 4             |                   |                    | RECORT      | OF MUD                                  | DING AN   | D CEMENTING     |                                         | -                 |
|            | th in Feet    | Diam              | eter               | Tons        | No. Sac                                 | cks of    | ATT 1500        | 38-41- 1- Frank                         |                   |
| From       | То            | Hole is           | n in.              | Clay        | Cem                                     | ent       |                 | Methods Used                            |                   |
|            |               | 7                 |                    |             |                                         |           |                 |                                         |                   |
|            |               |                   |                    |             |                                         |           |                 |                                         |                   |
|            |               |                   |                    |             |                                         |           |                 |                                         |                   |
|            | 1             |                   |                    |             |                                         | /         |                 |                                         |                   |
| tion       | e             |                   |                    |             | PILIGG                                  | ING RECO  | חפר             |                                         |                   |
| Section    |               | - <b>A-mt</b> uni | -4                 |             |                                         | -         |                 | License No                              |                   |
|            | f Pluggin     |                   |                    |             |                                         |           |                 | License NoState                         |                   |
|            |               |                   |                    |             |                                         |           | 1               | pe of roughage                          |                   |
|            |               |                   |                    | LOUZ OI WO  | nguage r                                |           | •               | gged                                    |                   |
|            | g method      |                   | <del>-</del>       |             | <del></del>                             | ·         |                 | s were placed as                        |                   |
| ,IngRim    | g approve     | a by:             |                    | `.          | * }                                     |           |                 |                                         | IOHOWS:           |
|            |               | X.il.             | W.T.               | Basin Supe  | ervisor                                 | No.       | Prom T          | NO. Of                                  | Sacks Used        |
| •          | FOR US        | E OF STA          | TE ED              | INEER OF    | T.Y                                     | ]  -      | <del>  </del>   |                                         |                   |
| Date '     |               |                   |                    | -           |                                         |           | <del>}</del>    |                                         |                   |
| Date       | Received      | 18:52             | 4 <del>∀ 6</del> 1 | <u> </u>    | 61 ·                                    | <b>-</b>  | <del>  </del>   |                                         |                   |
|            | 1             | ,                 |                    |             |                                         | <u> </u>  | <u> </u>        |                                         |                   |
|            |               |                   |                    |             | $\circ$                                 | <u> </u>  |                 |                                         |                   |
| File N     | · L-3         | 5613              |                    |             | Use (                                   | e         | Locatio         | n No. 19.38                             | 15.42 K           |

## WELL RECORD

| Date of Receipt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | December 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ,                              |                                                                                                                      |
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| Name of permittee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | • <del>K L Bi</del> ngha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | *                              | 1 p                                                                                                                  |
| Street or P. O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 07 East Par                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>ic</b>                      | and State Hobbs New Mexico                                                                                           |
| . Well location and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | description: The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | well is                        | located in                                                                                                           |
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| depth to water upo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | on completion,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9 feet; drillin                | g was commenced11-29                                                                                                 |
| and completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11-30-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19.54; name                    | of drilling contractor                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ; AddressB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | oz 42 Hobbe                    | N-M.; Driller's License No. WD14                                                                                     |
| 2. Principal Water-be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | aring Strata:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                                                                                                      |
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| No. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                                                                                                                      |
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| No. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15 brown                       | Weteranni                                                                                                            |
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| Casing Record of Pounds in Inches Per 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bottom,                        | for purpose of ourb                                                                                                  |
| Casing Record of Pounds in Inches Per 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bottom,                        | for purpose of surb                                                                                                  |
| Casing Record of Pounds in Inches Per 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I to be abandon ed, a          | for purpose of surb                                                                                                  |
| Casing Record of Pounds in Inches Per 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I to be abandon ed, a          | for purpose of curb                                                                                                  |
| Casing Records of Diameter Pounds in Inches Per It.  7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I to be abandon ed, a          | Type of Sace From  FOR PUTPOSE OF OURS  give location: 4, 4, 4,                                                      |
| Casing Records of Diameter Pounds in Inches Per It.  7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bottom, Range                  | Type of Sace From  FOR PUTPOSE OF OURS  give location: 4, 4, 4,                                                      |
| Casing Records of Diameter Pounds in Inches Per It.  7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bottom, Range                  | For purpose of ourse for purpose of ourse five location:  'ive location:  'i, ', ', ', ', ', ', ', ', ', ', ', ', ', |
| Casing Records of Diameter Pounds in Inches Per It.  7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bottom, Range                  | Type of Sace From  FOR PUTPOSE OF OURS  give location: 4, 4, 4,                                                      |
| Casing Records of Diameter Pounds in Inches Per It.  7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | on replaces old well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bottom, Range                  | From Purpose of ourb  for purpose of ourb  give location: 4, 4,  ; name and address of plugging co                   |

1680

### WELL RECOR

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section | 1             |             |              | (A) O          |            | 4                                            |                    |                     |             |
|---------|---------------|-------------|--------------|----------------|------------|----------------------------------------------|--------------------|---------------------|-------------|
|         | T             |             | $\neg$       |                |            |                                              | inghom             |                     |             |
|         |               |             |              |                |            |                                              |                    | State               | New Vertee  |
|         |               |             |              | -              |            |                                              |                    | State<br>1and       |             |
|         |               |             | - 1          |                |            |                                              |                    | 5and<br>5Twp_19s    |             |
|         | ╀──┼          |             |              |                |            |                                              |                    | Licen               |             |
|         |               |             |              |                |            |                                              |                    | Licen               | - •         |
|         |               |             |              |                |            |                                              |                    | State!              |             |
|         | 1             |             | A 1          | -              |            |                                              |                    | Statex              |             |
|         |               |             |              |                |            |                                              | _                  |                     | -           |
| (       | Plat of 640 a | acres)      |              | D              | us cop     | : 60 th                                      | <i>P.L.</i>        |                     | 10-del      |
|         | _             | _           |              |                |            |                                              | -                  | pth of well 12      |             |
| State w | hether wel    | ll is shall | ow o         | r artesian     | shallo     | .w                                           | Depth to wa        | ter upon complet    | ion LB feet |
| Section | 2             |             |              | PRIN           | CIPAL W/   | ATER-BEAF                                    | NING STRATA        |                     |             |
|         | Depth in      | n Feet      | Thi          | ickness in     |            |                                              | intian of Wate     | r-Bearing Formation |             |
| No.     | From          | То          |              | Feet           |            | <i>D</i> -                                   | scription of water | f-Bearing Formation | 1           |
| 1       |               | 40          |              | 30             |            |                                              |                    |                     |             |
| 2       | 4.3           | _60         |              | 12             |            |                                              |                    |                     |             |
| 3       | 31            | 90          |              | 9              |            |                                              |                    |                     |             |
| 4       | 105           | 114         | <del> </del> | 9              | WA         | terson                                       | <u> </u>           |                     |             |
|         | <del> </del>  |             | -            |                |            |                                              |                    |                     |             |
| 5       |               |             |              | 1              |            | <del></del>                                  |                    |                     |             |
| ection  | 3             |             |              |                | RECOR      | D OF CA                                      | SING               |                     |             |
| Dia     | Pounds        | Threa       |              | Dep            |            | Feet                                         | Type Shoe          | Perfor              |             |
| in.     | ft.           | in          |              | Тор            | Bottom     |                                              |                    | From                | To          |
| 14      |               | none        | <u> </u>     | 0              | 123        | 123                                          | none               | 58                  | 120         |
|         |               |             |              |                |            | <b></b>                                      | 1 1 4              | 2 1754 MART         |             |
|         |               | <del></del> |              | <del></del>    |            | <del></del>                                  | ļ                  |                     |             |
|         |               |             |              | 1              |            | 1                                            | <u> </u>           | , ,                 | 1           |
| Section | 4             |             |              | RECORE         | OF MUE     | ODING AL                                     | ID CEMENTING       |                     |             |
| Dept    | h in Feet     | Diame       |              | Tons           | No. Sa     | cks of                                       |                    |                     | ••          |
| From    |               | Hole in     | in.          | Clay           | Cem        | ent                                          |                    | Methods Used        |             |
|         |               |             |              |                |            |                                              |                    |                     |             |
|         |               |             |              |                | <u> </u>   |                                              |                    |                     |             |
|         |               |             |              |                |            |                                              |                    |                     |             |
|         | _ <u>i</u>    |             |              | <u> </u>       | <u> </u>   |                                              | -                  |                     |             |
| ection  | E             |             |              |                | PI UGG     | SING REC                                     | OPD.               |                     |             |
|         |               | - Cb-00     | <b>L</b> a., |                |            |                                              |                    | 7 N-                |             |
|         |               | •           |              |                |            |                                              |                    | License No. State   |             |
|         |               |             |              |                |            |                                              |                    | pe of roughage      |             |
|         | -             |             |              |                | ngingage o |                                              |                    | gged                |             |
|         | g method u    |             |              |                |            |                                              |                    |                     |             |
| luggmi  | g approved    | by:         |              |                |            |                                              |                    | gs were placed as   | Ioцows:     |
| -       |               |             |              | Basin Supe     | rogisor    | No                                           | Depth of Pl        | lug No. of          | Sacks Used  |
|         |               |             | 1            |                |            | 7  -                                         | +                  | <u> </u>            |             |
|         | FOR USE       | OF STAT     | E EN         | GINEER ON      | - 11       |                                              |                    |                     |             |
| Data    | Received _    | •           | MAY          | 8 195 <b>8</b> | 10 KM      | <b>I</b>                                     | +                  |                     |             |
| Date    | Vecelver -    |             |              | OFFICE         | 1/1        | <b>-</b>                                     |                    |                     |             |
|         |               | 100         | UND          | WATER SUPF     | sylade ;   | -                                            | 1                  |                     |             |
|         |               |             |              | 256, 195.41    | ·          | <u>,                                    </u> |                    |                     |             |
| File No | . 43          | 248         | 3            |                | _Use       | <u> Lu.</u>                                  | Locatio            | n No. 19. 38        | 15.412      |

Revised June 1972

Section 1. GENERAL INFORMATION

rish in Mich. Lon

| Section 2. PRINCIPAL WATER-BEARING STRATA   Section 18   Section 2. PRINCIPAL WATER-BEARING STRATA   Section 2. PRINCIPAL WATER-BEARING STRATA   Section 3. PRECORD OF CASING   Section 4. RECORD OF MUDDING AND CEMENTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (A) Owner of<br>Street or             | Does Office A       | adama Star    | Route       | 8, Box '       | 70     |            | Own                                    | er's Well No. |         |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------|---------------|-------------|----------------|--------|------------|----------------------------------------|---------------|---------|-------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                     |                     |               |             |                |        | is located | in the:                                |               |         |                                     |
| c. Lot No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |                     |               |             |                |        |            |                                        | 38            | 3E      | NWPW                                |
| c. Lot No of Block No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |                     |               |             |                |        | _          |                                        | _             |         |                                     |
| d. Xe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |                     | •             |             |                |        |            |                                        |               |         |                                     |
| Drilling Contractor   Abbott   Bros.   License No.   WD-46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | c. Lot N<br>Subdiv                    | o<br>vision, record | of Block No.  | ea          | of the         | County | ·. ·       |                                        |               |         |                                     |
| Address P.O. Box 637, Robbs, New Mexico 88240    Description of land surface or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |             |                | .M. Co | ordinate   |                                        |               |         |                                     |
| Section 3. RECORD OF CASING   Section 4. RECORD OF MUDDING AND CEMENTING   Depth in Feet   Hole   Sacks   Of Cement   Method of Placement   Depth in Feet   Diameter   Of Mud   Depth in Feet   Diameter   Of Mud   Of Cement   Method of Placement   Depth in Feet   Diameter   Of Mud   Of Cement   Method of Placement   Depth in Feet   Diameter   Of Mud   Of Cement   Method of Placement   Depth in Feet   Depth in F   | B) Drilling C                         | Contractor          | Abbott Br     | os.         |                |        |            | License No                             | WD-46         |         | ··· ··· ··· ··· ··· ··· ··· ··· ··· |
| Section 2. PRINCIPAL WATER-BEARING STRATA   Depth in Feet   Thickness in Feet   Description of Water-Bearing Formation   Estimated Yield (gallons per minute)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Address P.                            | O. Box              | 637, Hobb     | s, New      | Mexico         | 88     | 3240       |                                        |               |         |                                     |
| Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per minute)  Section 3. RECORD OF CASING  Diameter Pounds Depth in Feet Top Bottom (feet) Type of Shoe Perforations (finches) Per foot Per in. Top Bottom (feet) Type of Shoe Promised Top Bottom Top Bottom Top Section 4. RECORD OF MUDDING AND CEMENTING  Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Mugging Contractor Godfess Mugging Contractor Godfess Mugging Contractor Godfess Mugging Method Mugging Contractor Godfess State Engineer Representative FOR USE OF STATE ENGINEER ONLY  State Engineer Representative FOR USE OF STATE ENGINEER ONLY  Section 5. PLUGGING RECORD FWL Depth in Feet Cabic Feet Mugging approved by:  FOR USE OF STATE ENGINEER ONLY  FOR USE OF STATE ENGINEER ONLY  FOR USE OF STATE ENGINEER ONLY  FOR USE OF STATE ENGINEER ONLY  FOR USE OF STATE ENGINEER ONLY  FOR USE OF STATE ENGINEER ONLY  FOR USE OF STATE ENGINEER ONLY  FOR USE OF STATE ENGINEER ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drilling Began .                      | 9/16/8              | <u>0</u> Comp | leted       | 9/17/80        | _ Турс | e tools    | Cable                                  | Size of       | hole_   | 8in.                                |
| Section 2. PRINCIPAL WATER-BEARING STRATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Elevation of lai                      | nd surface or       |               |             | at we          | 11 is  |            | ft. Total dept                         | h of well     | 118     | ft.                                 |
| Section 2. PRINCIPAL WATER-BEARING STRATA   Depth in Feet   Thickness in Feet   Description of Water-Bearing Formation   Estimated Yield (gallons per minute)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |                     |               |             |                |        |            |                                        |               |         |                                     |
| Depth in Feet   Thickness in Feet   Description of Water-Bearing Formation   Estimated Yield (gallons per minute)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |                     |               |             |                |        |            |                                        |               | -       |                                     |
| Section 3. RECORD OF CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Depth                                 | in Feet             | Thickness     |             |                |        |            |                                        |               |         |                                     |
| Section 3. RECORD OF CASING  Diameter (inches) Pounds (inches) per foot per in.  6 5/8 19 Welded 0 118 118 None 78 118  Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole From To Diameter of Mud Of Cement Method of Placement  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 6. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Diameter of Mud Of Cement Method of Placement  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 6. PLUGGING RECORD  Section 7. PLUGGING RECORD  Section 8. PLUGGING RECORD  Section 8. PLUGGING RECORD  Section 9. PLUGGING RECORD  Section 9. PLUGGING RECORD  Section 9. PLUGGING RECORD  Section 9. PLUGGING RECORD  Section 9. PLUGGING RECORD  Section 9. PLUGGING RECORD  FOR USE OF STATE ENGINEER ONLY  Output Depth in Feet Cubic Feet of Cement of Cement Diameter Of Cement Diameter Of Cement Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diame | From                                  | То                  | in Feet       |             | Description of |        |            |                                        | (gallon       | s per n | inute)                              |
| Diameter (inches) per foot per in. Top Bottom (feet) Type of Shoe From To  6 5/8 19 Welded 0 118 118 None 78 118  Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter of Mud of Cement Method of Placement  Section 5. PLUGGING RECORD  Plugging Contractor Address No. Depth in Feet Original Method Original Plugged No. Depth in Feet Original Method Original Plugged No. Depth in Feet Original Method Original Plugging approved by:  State Engineer Representative 10 No. Top Bottom Original Plugging Address No. State Engineer Representative 11 No. Top Bottom Original Plugging Address No. State Engineer Representative 12 No. No. No. No. No. No. No. No. No. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60                                    | 118                 | 58            | Sa          | nd             |        |            | ······································ |               |         |                                     |
| Diameter (inches) per foot per in. Top Bottom (feet) Type of Shoe From To  6 5/8 19 Welded 0 118 118 None 78 118  Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter of Mud of Cement Method of Placement  Section 5. PLUGGING RECORD  Plugging Contractor Address No. Depth in Feet Original Method Original Plugged No. Depth in Feet Original Method Original Plugged No. Depth in Feet Original Method Original Plugging approved by:  State Engineer Representative 10 No. Top Bottom Original Plugging Address No. State Engineer Representative 11 No. Top Bottom Original Plugging Address No. State Engineer Representative 12 No. No. No. No. No. No. No. No. No. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |             |                |        |            |                                        |               |         |                                     |
| Diameter (inches) per foot per in. Top Bottom (feet) Type of Shoe From To  6 5/8 19 Welded 0 118 118 None 78 118  Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter of Mud of Cement Method of Placement  Section 5. PLUGGING RECORD  Plugging Contractor Address No. Depth in Feet Original Method Original Plugged No. Depth in Feet Original Method Original Plugged No. Depth in Feet Original Method Original Plugging approved by:  State Engineer Representative 10 No. Top Bottom Original Plugging Address No. State Engineer Representative 11 No. Top Bottom Original Plugging Address No. State Engineer Representative 12 No. No. No. No. No. No. No. No. No. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |             |                |        |            |                                        |               |         |                                     |
| Diameter (inches) per foot per in. Threads per foot per in. Top Bottom (feet) Type of Shoe From To  6 5/8 19 Welded 0 118 118 None 78 118  Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter of Mud of Cement Method of Placement  Section 5. PLUGGING RECORD  Plugging Contractor  Address No. Depth in Feet Cubic Feet of Cement No. Top Bottom of Cement  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  Section 5. PLUGGING RECORD  FOR USE OF STATE ENGINEER ONLY  Output Diameter No. Feet Cubic Feet of Cement No. Top Bottom of Cement No. Top Bottom of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bottom Of Cement No. Top Bo |                                       |                     |               |             |                |        |            |                                        |               |         |                                     |
| Section 4. RECORD OF MUDDING AND CEMENTING   Depth in Feet   Diameter   Of Mud   Of Cement   Method of Placement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |                     |               | Section     | on 3. RECORD   | OF C   | ASING      |                                        |               |         |                                     |
| Section 4. RECORD OF MUDDING AND CEMENTING   Depth in Feet   Hole   Diameter   Of Mud   Of Cement   Method of Placement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |                     |               |             | <del></del>    |        |            | Type of Sh                             | ioe Fr        |         |                                     |
| Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Diameter of Mud of Cement Method of Placement  Section 5. PLUGGING RECORD  Plugging Contractor  Address No. Depth in Feet Cubic Feet of Cement  Plugging Method Top Bottom of Cement  Plugging approved by:  State Engineer Representative  FOR USE OF STATE ENGINEER ONLY  Place Received September 19, 1980  Quad FWL FSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.5/8                                 | 10                  | heblew        |             |                | 11     | 8          | None                                   |               |         |                                     |
| Section 4. RECORD OF MUDDING AND CEMENTING    Depth in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0 )/0                                 | <u> </u>            | Werded        |             | 110            |        |            | None                                   |               |         | 110                                 |
| Depth in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |                     |               |             |                |        |            |                                        |               |         |                                     |
| Depth in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |                     |               | - 4 DECO    | DD OF WIDD     | I      | ND CEN     | ENTING                                 |               |         |                                     |
| Section 5. PLUGGING RECORD  Plugging Contractor Address Plugging Method Date Well Plugged State Engineer Representative  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  Section 5. PLUGGING RECORD  No.  Depth in Feet Cubic Feet Of Cement  1 2 3 4  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY  Output  Description of Cement  FOR USE OF STATE ENGINEER ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | in Feet             | Hole          | Sac         | ks Ci          | ubic F | eet        |                                        | od of Placem  | nent    | ·                                   |
| Plugging Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | From                                  | То                  | Diameter      | of M        | ud of          | Ceme   | ent        |                                        |               |         |                                     |
| Plugging Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                     |               |             |                |        |            | ····                                   |               |         |                                     |
| Plugging Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | · · · · · · · · · · · · · · · · · · · |                     |               |             |                |        |            | <del> </del>                           |               |         |                                     |
| Plugging Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                     |               |             |                |        |            |                                        |               |         |                                     |
| Plugging Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                     |               | Section     | on S PLUGGIN   | IC RF  | CORD       |                                        |               |         |                                     |
| Plugging Mcthod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Plugging Contra                       | actor               |               |             |                |        | COME       |                                        |               |         |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |             |                |        | No.        |                                        |               |         |                                     |
| State Engineer Representative 3 4 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                     |                     |               |             |                |        | 1          | 100                                    | Bottom        | OI .    | Cement                              |
| FOR USE OF STATE ENGINEER ONLY  ate Received September 19, 1980  QuadFWLFSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | lugging approv                        | red by:             |               |             |                |        |            |                                        |               | ļ       |                                     |
| ate Received September 19, 1980  QuadFWLFSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |                     | State Engi    | neer Repres | entative       |        |            |                                        |               |         |                                     |
| Quad FWL FSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | _                                     |                     |               |             | OF STATE EN    | IGINE  | ER ONL     | Y                                      |               |         |                                     |
| 19352 DOM 10.20.15.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ate Received                          | Septembe            |               |             | Quad           |        |            | FWL                                    |               | FSL.    |                                     |
| File No. L-8352 Use DOM. Location No. 19.38.15.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | File No                               | -8352               | 1             |             | Use DOM        | l      |            | Location No. 1                         | 9.38.15.4     | 4       |                                     |

WELL RECOND Section 1. CERAL INFORMATION Joe Tarbet ..... Owner's Well No. . (A) Owner of well \_ Rt.4, Box 333A Street or Post Office Address Seminole, Texas 79360 City and State \_\_\_\_ Well was drilled under Permit No. L-10, 138 \_\_\_\_\_ and is located in the: a. \_\_\_\_\_ 1/4 \_\_\_\_ 1/4 \_\_\_ SE 1/4 of Section 14 \_\_\_\_\_ Township 19-S \_\_\_\_ Range 38E \_\_\_\_\_ N.M.P.M. b. Tract No.\_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_ \_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_ orded in \_\_\_\_ Lea \_\_\_ County. c. Lot No.\_\_\_ Subdivision, recorded in \_\_\_\_\_ feet, Y=\_\_\_\_\_feet, N.M. Coordinate System\_\_\_ (B) Drilling Contractor Abbott Bros. Drilling License No. WD-46 P.O. Box 637, Hobbs, New Mexico 88240 Drilling Began Dec. 9, 1990 Completed Dec. 15, 1990 Type tools Cable Tool Size of hole 16 in. at well is ft. Total depth of well 170 ft. Elevation of land surface or \_\_\_\_ Depth to water upon completion of well 60 ft. Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness Estimated Yield Description of Water-Bearing Formation in Feet (gallons per minute) From To 166 106 Sand & etc 60 Section 3. RECORD OF CASING Depth in Feet Pounds Perforations Diameter Threads Length Type of Shoe (inches) per foot per in. Bottom (feet) Тор From To NONE 171 171 171 37 Welded 0 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Cubic Feet Sacks Method of Placement Diameter of Mud of Cement From Section 5. PLUGGING RECORD Plugging Contractor \_\_\_ Address Depth in Feet Cubic Feet Plugging Method \_ Bottom of Cement Date Well Plugged\_ Plugging approved by: 3 State Engineer Representative FOR USE OF STATE ENGINEER ONLY Date Received July 19, 1991 Quad \_\_\_\_\_ FWL \_\_\_\_ FSL\_\_\_\_

Quad FWL FSL FSL Use IRR Location No. 19.38.14.44333

File No. L-10,138





### Section 1. GENERAL INFORMATION

| (A) Owner of Street or   | f wellWa.        | lter W. Kr       | ug DBA V<br>1960                      | Vallen Pr           | oductions               | Own                | er's Well No     |                         |
|--------------------------|------------------|------------------|---------------------------------------|---------------------|-------------------------|--------------------|------------------|-------------------------|
| City and                 | StateM1          | dland, Tex       | as 7970                               | 02                  |                         |                    |                  |                         |
|                          | d under Permit   |                  |                                       |                     |                         |                    |                  | _                       |
|                          |                  |                  |                                       |                     |                         | 19-S               |                  |                         |
|                          |                  |                  |                                       |                     |                         |                    |                  |                         |
|                          | vision, recorde  |                  |                                       |                     |                         |                    |                  |                         |
|                          |                  |                  |                                       | feet, I             | N.M. Coordina           | te System          |                  | Zone in Grant.          |
|                          |                  |                  |                                       |                     |                         | License No         | WD-208           |                         |
| Address                  |                  | P. O. Box        | c 74 Oi                               | 1 Center,           | New Mexi                | co 88266           |                  |                         |
| Drilling Began           | Jan 10, 19       | 980 Com          | pleted                                | <del>Jan. 12,</del> | 19BOs tools             | Spudder            | Size of I        | nole 10 in.             |
| Elevation of la          | and surface or _ |                  |                                       | at w                | ell is                  | ft. Total dept     | h of well        | 125ft.                  |
| Completed we             | ell is 🔲 s       | hallow 🔲 a       | rtesian.                              |                     | Depth to wa             | ter upon completic | on of well       | 80 ft.                  |
| Denti                    | n in Feet        | Sec<br>Thickness |                                       | CIPAL WAT           | ER-BEARING              | STRATA             | Estim            | ated Yield              |
| From                     | То               | in Feet          | 1                                     | Description o       | f Water-Bearin          | g Formation        |                  | per minute)             |
| 95                       | 120              | 25               | Wa                                    | terXXXXXX           | (Sand.                  |                    |                  |                         |
|                          | -                |                  |                                       |                     |                         |                    |                  |                         |
|                          |                  | -                | <u> </u>                              |                     |                         | A =                |                  |                         |
|                          | <u> </u>         | <u> </u>         |                                       |                     |                         |                    |                  |                         |
| Diameter                 | Pounds           | Threads          |                                       | in Feet             | D OF CASING<br>Length   | T                  |                  | Perforations            |
| (inches)                 | per foot         | per in.          | Тор                                   | Bottom              | - /s                    | Type of St         | roe Fro          |                         |
| 6 5                      | /B weld          | led.             | 0                                     | 125                 | 125                     | none               | 10               | 5 121                   |
|                          |                  |                  |                                       |                     |                         |                    |                  |                         |
|                          |                  | <del></del>      | on 4. RECO                            |                     | DING AND C              | EMENTING           |                  |                         |
| From                     | To To            | Hole<br>Diameter | Saci<br>of M                          | -                   | Cubic Feet<br>of Cement | Metl               | nod of Placem    | ent                     |
|                          |                  |                  |                                       |                     |                         |                    | · · ·            |                         |
|                          |                  |                  |                                       |                     |                         |                    | <del></del>      |                         |
|                          |                  | .1               | L                                     | - 6 PLUCCI          | INC DECORD              |                    |                  |                         |
| •                        | tractor          |                  |                                       | in 5. PLUGG         | ING RECORD              |                    |                  |                         |
| Address<br>Plugging Meth | 10d              |                  |                                       |                     | No                      | Depth i            | n Feet<br>Bottom | Cubic Feet<br>of Cement |
| Date Well Plu            | gged             |                  |                                       |                     |                         |                    | Dottom           | or comen                |
| Plugging appr            | oved by:         | State Eng        | ineer Repres                          | entative            |                         |                    |                  |                         |
|                          |                  | 2.0.0 2.18       | · · · · · · · · · · · · · · · · · · · |                     |                         |                    |                  |                         |
| Date Received            | April 21         | , 1980           | FOR USE                               |                     | ENGINE <b>ER</b> 0      | NLY<br>FWL         |                  | FSL                     |
| File No                  | L-8250           |                  |                                       |                     |                         | Location No        |                  |                         |

### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| ection 1 | ny Decin    | n in and     | Section 5 ne                     | _                                   |              | Canatraa                                         | tion Compar        | \ <del>U</del>                          |
|----------|-------------|--------------|----------------------------------|-------------------------------------|--------------|--------------------------------------------------|--------------------|-----------------------------------------|
|          |             |              | 1 ' '                            |                                     |              | 545                                              |                    | ···                                     |
| Ì        | 1           | Ì            |                                  |                                     |              |                                                  | State _            | lew Mexico                              |
|          |             |              | City                             | - 4-:11-2                           | J            | -24 Nr. T364                                     | g State            | i is located in th                      |
| ļ        |             |              |                                  | NN 14                               | 9 W 1        | 4 of Section 31                                  | Twp. 19 S          | Rge 38 B                                |
|          |             |              |                                  |                                     |              |                                                  | iito Lice          | nse No. WD 99                           |
| 1        | 1           |              |                                  | nd Number.                          |              |                                                  |                    |                                         |
|          |             |              | City                             | Hobb <b>s</b>                       |              |                                                  | State _1           | low Mexico                              |
|          |             |              | Drilling                         | was comm                            | enced_A      | usust 26                                         |                    | 19.7.7                                  |
|          |             |              | Drilling                         | was comple                          | etedA        | ugust 28                                         |                    | 19 57                                   |
|          | at of 640   | -            |                                  | , ,                                 |              | m i                                              |                    | 20                                      |
| levation | at top o    | of casing i  | n feet above                     | sea level                           | OW           | Total de                                         | oth of well 1      | tion 50                                 |
| tate wn  | etner we    | H 12 SUBII   |                                  |                                     |              | ,                                                | ter upon comple    | edon 29                                 |
| ection 2 | <del></del> |              |                                  |                                     | ATER-BEAF    | ING STRATA                                       |                    | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| No       | Depth i     | n Feet<br>To | Thickness in<br>Feet             |                                     | De           | scription of Water                               | -Bearing Formation | an                                      |
| 1        | 0.5         | 100          | 25                               | P-3                                 |              |                                                  |                    | <del></del>                             |
| 2        | 85          | 120          | 35                               | Rod                                 | and          |                                                  |                    |                                         |
|          |             |              |                                  |                                     |              |                                                  |                    |                                         |
| 3        |             |              |                                  |                                     |              |                                                  |                    |                                         |
| 4        |             |              | <u> </u>                         |                                     |              |                                                  |                    |                                         |
| 5        |             |              | <u> </u>                         | <u> </u>                            |              |                                                  |                    |                                         |
| ection 3 |             |              |                                  | RECOR                               | RD OF CA     | SING                                             |                    |                                         |
| Dia      | Pounds      |              |                                  | Depth                               | Feet         | Type Shoe                                        |                    | orations                                |
| in.      | ft.         | . in         | <del></del>                      | Bottom                              | 3.20         |                                                  | From               | 120                                     |
| 54       | 12_         | nor          | 10 0                             | 120                                 | 120          | rone                                             | 70                 | 120                                     |
|          |             |              |                                  | -                                   | <del> </del> |                                                  |                    |                                         |
|          |             | +            |                                  |                                     | <del></del>  | <del></del>                                      | ļ                  | -                                       |
|          |             |              |                                  | <u>'</u>                            |              |                                                  |                    | 1                                       |
| ection 4 |             |              | RECO                             | RD OF MUI                           | DDING A      | ND CEMENTING                                     |                    |                                         |
| Depth    | in Feet     | Diame        |                                  |                                     | icks of      |                                                  | Methods Used       |                                         |
| From     | То          | Hole in      | n in. Clay                       | Cen                                 | nent         |                                                  |                    |                                         |
|          |             |              |                                  |                                     |              |                                                  |                    |                                         |
|          |             | ,            |                                  |                                     |              |                                                  |                    |                                         |
|          |             |              |                                  |                                     |              | · · · · · · · · · · · · · · · · · · ·            |                    |                                         |
|          | <u> </u>    |              | <u> </u>                         |                                     |              | <del></del>                                      |                    | ·····                                   |
| ection 5 |             |              |                                  | PLUGG                               | SING REC     | ORD                                              |                    |                                         |
| ame of   | Plugging    | Contrac      | tor                              |                                     |              |                                                  | License No         | )                                       |
|          |             | -            |                                  |                                     |              |                                                  |                    |                                         |
|          |             |              |                                  |                                     | -            |                                                  |                    |                                         |
|          | •           |              |                                  |                                     |              |                                                  |                    | 19                                      |
|          | approved    |              |                                  |                                     |              |                                                  | gs were placed a   |                                         |
| -00- 0   |             | •            |                                  |                                     | Γ-           | Depth of P                                       |                    |                                         |
|          |             | -            | Basin                            | upervisor                           | No           | ), }                                             | No. o              | f Sacks Used                            |
|          | FOR HE      | COT STA      | TE ENGINEER                      | Oly -                               | 7            |                                                  |                    |                                         |
| •        | FUR US.     | - 1          |                                  | 717-                                |              |                                                  |                    |                                         |
| Date R   | eceived .   |              | SIP 3 195                        | /                                   | _            | <del>                                     </del> |                    |                                         |
|          |             |              | OFFICE                           |                                     | -            | <del>-  </del>                                   |                    |                                         |
|          |             |              | ND WATER S''PE<br>SWELL, NEW AND |                                     | 1 '-         |                                                  | <del></del>        |                                         |
|          | / -         | ,            |                                  | ر ـــــــــــــــــــــــــــــــــ | , J          |                                                  | , -                | C                                       |
| ile No.  | ムー3         | 658          |                                  | Use                                 | Lom          | Locatio                                          | n No. 1930         | 1 <u>/4.3/D</u>                         |



# WELL RECORD

|                                                             |                            |                                     |                                       |                            | *************************************** | :                                             |            | & Er          | larg                                    | اسرا<br>ed   | ;            |
|-------------------------------------------------------------|----------------------------|-------------------------------------|---------------------------------------|----------------------------|-----------------------------------------|-----------------------------------------------|------------|---------------|-----------------------------------------|--------------|--------------|
| Name of                                                     | permittee,                 | J. A.                               | Selman                                |                            | ·                                       |                                               |            |               |                                         | <del></del>  | ····         |
| Street or P. C                                              |                            |                                     |                                       |                            |                                         |                                               |            | -             |                                         |              |              |
| 1. Well locat                                               | ion and d                  | lescription:                        | The Sha                               | or artesian)               | all is locat                            | ed in .                                       | -1111      | 5/2           | <u>-</u> %, -                           | 靓            | - 5          |
| NE                                                          |                            |                                     |                                       |                            |                                         |                                               |            |               |                                         |              | (NDAPH       |
|                                                             |                            | Section                             |                                       |                            |                                         |                                               |            | ٠.            |                                         |              |              |
|                                                             |                            | evel,                               |                                       |                            |                                         |                                               |            | •             |                                         |              |              |
| depth to                                                    | water upor                 | completion,                         | 155                                   | feet;                      | drilling was                            | comm                                          | nenced     | Apri          | 1 10                                    |              | 1            |
| and comp                                                    | leted                      | April 13                            |                                       | , 195.? ,                  | ame of dr                               | illing ·c                                     | ontract    | or <u>').</u> | R. H                                    | isalo        | white        |
|                                                             | Box                        | .56_; Ad                            | dress,                                | /lubbs,                    | New "ex                                 | ico                                           | ; Dri      | ller's Lic    | ense N                                  | <u>. 14</u>  | 99_          |
| 2. Principal                                                |                            |                                     |                                       |                            | •••<br>• .                              |                                               | •          |               |                                         |              |              |
| •                                                           |                            | in Feet                             |                                       | Thickness                  |                                         | Descr                                         | ription of | Water-ber     | uring Fo                                | rmation      |              |
| No. 1                                                       | From                       | To                                  | ·                                     |                            | <del> `</del>                           |                                               |            |               |                                         |              |              |
| No. 1                                                       | 65                         | 95                                  |                                       | 20                         | ·                                       | Rod                                           | ~and       | Fine          |                                         |              |              |
| No. 2                                                       | 88                         | 125                                 |                                       | 37                         |                                         | Red                                           | Sand       | Cours         | 9                                       |              |              |
| No. 3                                                       |                            |                                     |                                       |                            |                                         |                                               |            | !             |                                         |              |              |
| No. 4                                                       |                            |                                     |                                       |                            |                                         | •                                             | _          | 1             |                                         |              |              |
| No. 5                                                       |                            |                                     |                                       |                            |                                         |                                               |            |               |                                         |              |              |
| 8. Casing Re                                                | cord:                      |                                     |                                       |                            | <i>y</i> •                              | , : :.                                        |            |               | • • • • • • • • • • • • • • • • • • • • |              |              |
| 3. Casing Re                                                | cord:<br>Pounds<br>per ft. | Threads<br>per inch                 | Depth of (                            | haing or Lin<br>Bottom     |                                         | , <u>, , , , , , , , , , , , , , , , , , </u> | Type of    | !             | , ' <sub>**</sub> ,                     | Perio<br>rom | ration<br>To |
| Diameter                                                    | Pounds                     |                                     | _                                     |                            | er Feet of<br>Casing                    |                                               | ·          | !             | , , , , , , , , , , , , , , , , , , ,   | Perio        |              |
| Diameter<br>in inches                                       | Pounds<br>per ft.          | per inch                            | Top                                   |                            | er Feet of                              |                                               | ·          | !             | P                                       | rom '        | To           |
| Diameter<br>in inches                                       | Pounds<br>per ft.          | per inch                            | Top                                   |                            | er Feet of<br>Casing                    |                                               | ·          | !             | P                                       | rom '        |              |
| Diameter<br>in inches                                       | Pounds<br>per ft.          | per inch                            | Top                                   |                            | er Feet of<br>Casing                    |                                               | ·          | ;<br>;        | P                                       | rom '        | To           |
| Diameter<br>in inches                                       | Pounds<br>per ft.          | per inch                            | Top                                   |                            | er Feet of<br>Casing                    |                                               | ·          | ;<br>;        | P                                       | rom '        | To           |
| Diameter<br>in inches                                       | Pounds<br>per ft.          | per inch                            | Top                                   |                            | er Feet of<br>Casing                    |                                               | ·          | ;<br>;        | P                                       | rom '        | To           |
| Diameter<br>in inches                                       | Pounds<br>per ft.<br>30    | lione                               | 0                                     |                            | Foot of Caning                          |                                               | Type of    | Sho           | P                                       | rom '        | 10           |
| Diameter to technology 16                                   | Pounds per ft.  30         | lione                               | O O O O O O O O O O O O O O O O O O O | Bottom 3 be abando         | Foot of Caning  3  ned, give            | location                                      | Type of    | Sho           |                                         |              | 70           |
| Diameter to technology 16                                   | Pounds per ft.  30         | per meh                             | O O O O O O O O O O O O O O O O O O O | Bottom  3  be abando  Rang | Foot of Caning  3  ned, give            | location                                      | Type of    | Show          |                                         |              | 70           |
| Diameter to technology 16                                   | Pounds per ft.  30         | per meh                             | O O O O O O O O O O O O O O O O O O O | Bottom  3  be abando  Rang | Foot of Caning  3  ned, give            | location                                      | Type of    | Show          |                                         |              | 70           |
| Diameter to technology 16                                   | Pounds per ft.  30         | per meh                             | O O O O O O O O O O O O O O O O O O O | Bottom  3  be abando  Rang | Foot of Caning  3  ned, give            | location                                      | Type of    | Show          |                                         |              | 70           |
| Diameter to technology 16                                   | Pounds per ft.  30         | per meh                             | O O O O O O O O O O O O O O O O O O O | Bottom  3  be abando  Rang | Poot of Caning  3  ned, give            | location                                      | Type of    | Show          | se of F                                 | ¼.           | 70           |
| Diameter ta taches  16  16  If above of Section  date of pi | Pounds per ft.  30         | per inch  !ions  ions  n replaces o | O O O O O O O O O O O O O O O O O O O | be abando Rang             | Poot of Caning  3  ned, give            | location                                      | Type of    | Show          | se of F                                 | ¼.           | 70           |
| Diameter ta taches  16  16  If above of Section             | Pounds per ft.  30         | per inch  !ions  ions  n replaces o | O O O O O O O O O O O O O O O O O O O | be abando Rang             | Poot of Caning  3  ned, give            | location                                      | Type of    | Show          | se of F                                 | ¼.           | 70           |

DE Z VE ILL ON

STATE ENGINEER OFFICE

WERECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section 1 | 1               |             |                 | (A) Oums            | ar of well                                        | James          | A. Selman          |                  |                                             |
|-----------|-----------------|-------------|-----------------|---------------------|---------------------------------------------------|----------------|--------------------|------------------|---------------------------------------------|
|           |                 |             |                 | Street and          | Number                                            | Star R         | oute A.            |                  |                                             |
|           |                 |             | - 1.            | City                | 14mm                                              |                | Hob                | bg. State        | New Mexico                                  |
|           | <del>  -</del>  |             | -1              | Well was            | drilled ur                                        | der Pern       | No.L-1021          | - Purarken       | New Mexico<br>Sup.<br>and is located in the |
| }         | 1               |             | Ī               | NE 14               | NB 4                                              | NE             | of Section 14      | Twp. 19          | )S Rge 38E                                  |
| <u> </u>  | <del>  -</del>  |             |                 | (B) Drilli          | ing Contra                                        | actor 0.       | R. Musslew         | hite Li          | Rge 38E<br>icense No.WD99                   |
|           |                 |             |                 | Street and          | Number.                                           | Box            | 56                 |                  |                                             |
| <u> </u>  | <del> </del> }- |             |                 | City                |                                                   |                | Hobbs,             | State            | New Mexico                                  |
| -         | 1               |             | 1               | Drilling v          | vas comm                                          | enced          | eb. 9,             |                  | 19.57                                       |
| <u></u>   |                 |             |                 | Drilling w          | as comple                                         | eted F         | eb 22,             |                  | 19 57                                       |
| (I        | Plat of 640     | acres)      |                 |                     |                                                   |                |                    |                  |                                             |
| Elevatio  | n at top o      | of casing i | n fee           | t above sea         | a levelShells                                     | ` <u>`</u>     | Total de           | pth of well      | 75                                          |
| State wh  | nether we       | ll is shall | 7 <b>0M 0</b> 3 | or artesian         |                                                   | · <del>M</del> | Depth to wa        | ter upon comp    | pletion /2                                  |
| Section : |                 |             |                 |                     | CIPAL WA                                          |                | ING STRATA         |                  |                                             |
| No.       | Depth :         | in Feet     | Thi             | ickness in<br>Feet  | ŀ                                                 | Der            | scription of Water | r-Bearing Forma  | ition                                       |
| 1         | 85              | 100         | +               |                     | Dad a                                             |                |                    |                  |                                             |
|           | 120             |             | ↓               | 15                  | Red 8                                             | and            | - <del></del>      |                  |                                             |
| [         |                 | 135         | —               | 15                  | <del></del>                                       |                |                    |                  |                                             |
| 3         | ·!              | <u> </u>    |                 |                     | l                                                 |                | ·                  |                  |                                             |
| 4         | ·               |             |                 |                     | (                                                 |                |                    |                  |                                             |
| 5         | ·               |             | <u> </u>        |                     | Ī                                                 |                |                    |                  |                                             |
| Section   | 3               |             |                 |                     | RECOR                                             | RD OF CAS      | SING               | -                |                                             |
| Dia       | Pounds          |             |                 | Dep                 |                                                   | Feet           | Type Shoe          |                  | eriorations                                 |
| in.       | ft.             | in          |                 | Top                 | Bottom                                            |                | -                  | From             | To                                          |
| 14        | 18              | 110         | ne              | 0                   | 168                                               | 168            | none               | 70,              | 168                                         |
|           | -               |             |                 | <b> </b>            | <del> </del>                                      | <del> </del>   |                    |                  |                                             |
| ···       | <del> </del>    |             |                 | 1                   | <del> </del> !                                    | <del> </del>   | <del> </del>       | <del> </del>     |                                             |
|           | <u> </u>        |             |                 | <u> </u>            | <u> </u>                                          | <u></u>        |                    | <u> </u>         |                                             |
| Section 4 | 4               |             |                 | RECOR               | D OF MUI                                          | ODING AN       | ID CEMENTING       |                  | •                                           |
|           | h in Feet       | Diame       | eter            | Tons                | No. Sa                                            | icks of        |                    | Production Tiens | -                                           |
| From      | То              | Hole in     | n in.           | Clay                | Cem                                               | ient           |                    | Methods Used     |                                             |
|           |                 |             |                 |                     |                                                   |                |                    |                  |                                             |
|           |                 |             |                 |                     | T                                                 |                |                    |                  |                                             |
|           |                 |             |                 |                     |                                                   |                |                    |                  |                                             |
|           |                 |             |                 |                     | T                                                 |                |                    |                  |                                             |
| ~         | -               |             |                 |                     |                                                   |                |                    |                  |                                             |
| Section ! |                 | <b>-</b> .  |                 |                     | PLUGG                                             |                |                    | =                |                                             |
|           |                 | g Contrac   | :tor            | · ·                 | <del>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; </del> |                |                    |                  | No                                          |
|           | nd Numb         | e e         |                 |                     |                                                   | City           |                    |                  |                                             |
|           | •               |             |                 | •                   |                                                   |                | Ty                 |                  |                                             |
| -         | •               |             | <del></del>     |                     | ***************************************           |                |                    |                  | 19                                          |
| Plugging  | g approve       | d by:       |                 |                     |                                                   | ·              | Cement Flug        | gs were placed   | as follows:                                 |
| ·         |                 | •••         |                 | - Basin Sup         | ervisor                                           | No.            | Depth of P         | To No.           | o. of Sacks Used                            |
| ٠.        | FOR US          | E OF STA    | TE E            | ngineer of          | NLY                                               | 7 [            |                    |                  |                                             |
|           |                 |             | MAX             | 7 1957              | 7                                                 | '              | <del> </del>       |                  |                                             |
| Date      | Received        |             | 1717            |                     | -                                                 | -              |                    |                  |                                             |
|           |                 | l can:      | <b>ுபு</b> ந்   | OFFICE<br>(WALD 197 | rent i                                            | <u> </u>       | <u> </u>           |                  | لننسب                                       |
| -         |                 |             | ag:3//          | MAL AND MIN         | 100 J                                             | <b>^</b>       |                    | 4                |                                             |
| File No   | 1-1             | 021-5       | Enle            | <u>'===</u>         | Use                                               | Jrs.           | Locatic            | on No. 19.3      | 8.14.222                                    |



File No.

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, (P.O. Box 1079) Santa Fe, New Mexico, unless the well is situated in the Roswell Artesian Basin, in which case it should be filed in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

| Sec. 1                             | `                      |          |                 |                   | •               |               | 2                   |                      |
|------------------------------------|------------------------|----------|-----------------|-------------------|-----------------|---------------|---------------------|----------------------|
|                                    |                        | : Own    | er of wel       | u Fra             | rek             | Le            | lina                | W                    |
| NW                                 | N F                    | 1        | et and Nu       |                   | 9               | <b>.</b>      |                     |                      |
|                                    |                        | <b>!</b> |                 | H                 | Als             | 19            | Me                  | W.                   |
|                                    |                        |          |                 | led under F       | ermit No.       | 1:3           | 45                  | and                  |
|                                    |                        |          |                 |                   |                 |               |                     | of Section . /4      |
| w                                  | SF                     | ,        | nship           | 10                |                 | Range 🥖       | 38                  |                      |
|                                    |                        |          |                 | ractor            | ///             | Lee           | مديدك               | 10                   |
| 7 7                                |                        |          |                 | mber              | <u> </u>        | 8             |                     |                      |
| (Plat of 64<br>Locate Well         |                        |          |                 |                   |                 | ,             | ··········          |                      |
| Drilling was commer                |                        |          | Office .        | 9.7. Drillin      |                 | ر             | a //                | 4 10 67              |
| Elevation at top of ca             |                        |          |                 | •                 | ig was con      | ibiesed ***   | · W . C             | R 18 . J J.          |
| State whether well i               | _                      |          | _               |                   |                 |               |                     |                      |
| Total depth of well .              | ,                      | •        |                 |                   | F               |               | • • • • • • • • • • |                      |
| Sec. 2                             | , <b>4</b> . <b></b> , |          |                 | ATER-BEAR         | ING STRA        | LTA           |                     |                      |
| No. 1, from . 7.2.                 | to . 8.4               |          |                 |                   |                 |               | anie                | dand                 |
| No. 2, from 8.7.                   |                        |          |                 |                   |                 |               | ,                   | , ,                  |
| No. 3, from                        |                        |          |                 |                   |                 |               |                     |                      |
| No. 4, from                        |                        |          |                 |                   |                 |               |                     |                      |
| No. 5 from                         | to                     | ,        | Thicknes        | s in feet         |                 | , Formation   | 1                   |                      |
| Sec. 3                             |                        |          | •               | RD OF CA          |                 |               |                     |                      |
| DIAMETER POUND<br>IN INCHES PER FO |                        |          | E OF<br>ACTURER | FEET OF<br>CASING | TYPE OF<br>SHOE | PERFO         | RATED               | PURPOSE              |
| 1500 ?                             |                        | ,        |                 | 120               |                 | 10            | 120                 |                      |
|                                    |                        |          |                 |                   |                 |               |                     |                      |
|                                    |                        |          |                 |                   |                 |               |                     |                      |
|                                    |                        |          |                 |                   | . ,             |               | -                   |                      |
| Sec. 4                             |                        | REC      | CORD OF         | MUDDING           | AND CEN         | MENTING       |                     | ·                    |
| DIAMETER OF<br>HOLE IN INCHES      | NUMBER OF S            |          | M               | ETHODS US         | ED              | SPECIFIC OF M |                     | TONS OF<br>CLAY USED |
| <del></del>                        |                        |          |                 |                   |                 | <del></del>   |                     |                      |
|                                    |                        |          |                 |                   |                 | <del></del>   | <del>,</del>        | <del> </del>         |
|                                    |                        |          |                 |                   |                 |               |                     | ļ                    |
|                                    |                        |          |                 |                   |                 |               |                     |                      |
|                                    |                        | <u> </u> |                 |                   |                 |               |                     |                      |
| Sec. 5                             |                        |          |                 | RECORD            |                 |               |                     |                      |
| Well is located in th              | /                      |          |                 |                   |                 |               | _                   | •                    |
| Range                              | • =                    |          |                 |                   |                 |               |                     |                      |
| Tons of clay used                  |                        |          |                 |                   | -               |               |                     |                      |
|                                    |                        |          |                 |                   |                 |               |                     | ell Supervisor       |
| Cement plugs were p                |                        |          |                 |                   | .wssme ab       | proved by r   | ii scapaii VI       | en Supervisor        |
| No. 1 was placed at                |                        |          | ,               | feet Numb         | er of sacks     | of cement     | used                | ·                    |
| No. 2 was placed a                 |                        |          |                 |                   |                 |               |                     |                      |
| No. 3 was placed at                |                        |          |                 |                   |                 |               |                     |                      |
| No. 4 was placed at                | •                      |          |                 |                   |                 |               |                     | •                    |
| No. 5 was placed at                | •                      |          |                 | foot Numb         | or of each      |               |                     |                      |

### Section 1. GENERAL INFORMATION

| S           | treet or            | Post Office A         | Cap                  | . Box 15      | 60                |            |              | Ow                      | ner's Well l | No          |                   |
|-------------|---------------------|-----------------------|----------------------|---------------|-------------------|------------|--------------|-------------------------|--------------|-------------|-------------------|
| C           | City and            | State                 | Hobl                 | s. New        | Mexico            | 882        | 40           |                         |              | <del></del> |                   |
| Well wa     | as drille           | d under Permit        | NoL-10               | .011          |                   | and i      | s located    | in the:                 |              |             |                   |
|             |                     |                       |                      |               |                   |            | •            | 198 R                   |              |             |                   |
| ь           | , Tract             | No                    | of Map No            | ·             | of t              | the        |              |                         |              |             |                   |
| c           | . Lot N<br>Subdi    | lo<br>vision, recorde | of Block No.         | Lea           | of t              | county.    |              | <del></del>             | <del></del>  | ·           | <del></del>       |
| đ           |                     |                       |                      |               | feet,             | N.M. Coo   | ordinate S   | System                  |              |             | Zone in<br>Grant. |
| (B) I       | _                   |                       |                      |               |                   |            |              | _ License No            | WD-4         | 6           |                   |
| Addres      | i <b>š</b>          | P.O. Box              | 637, Robi            | bs, Nev       | Mexico            | 882        | 40           | ·                       |              |             |                   |
| Drilling    | g Began             | 6/13/88               | Com                  | pleted 6/     | 15/88             | Туре       | tools        | Cable                   | Size         | of hole_    | 10 in.            |
| Elevati     | on of la            | nd surface or .       |                      |               | at w              | vell is    |              | _ ft. Total dep         | th of well_  | 140         | ft.               |
| Comple      | eted wel            | llis 🖾 s              | shallow 🗀            | artesian.     |                   | Dep th     | to water     | upon completic          | on of well . | 60          | ft.               |
|             |                     |                       | Sec                  | tion 2. PRIN  | CIPAL WAT         | ER-BEA     | RING ST      | RATA                    |              |             |                   |
| F           | Depth               | in Feet<br>To         | Thickness<br>in Feet | 3 1           | Description o     | of Water-I | Bearing F    | ormation                |              | stimated l  |                   |
|             | 0                   | 135                   | 75                   | Sau           |                   |            |              |                         |              |             | _                 |
|             |                     |                       |                      |               |                   |            |              |                         |              |             | _                 |
|             |                     |                       |                      |               |                   |            |              |                         |              |             |                   |
|             |                     |                       | <del> </del>         |               |                   |            |              |                         |              |             |                   |
| <b>L</b>    |                     | <u></u>               | <u>.l</u>            | Sectio        | n 3. RECOR        | D OF CA    | SING         | ·· <del>·········</del> | <u> </u>     |             |                   |
|             | meter<br>ches)      | Pounds<br>per foot    | Threads per in.      | Depth         | in Feet<br>Bottom | Le         | ngth<br>eet) | Type of Sl              | 10e          |             | ations<br>To      |
|             |                     |                       |                      | Тор           |                   |            |              |                         |              | From        |                   |
| 7           |                     | 22                    | Welded               | 0             | 141               | 19         | 1            |                         |              | _75         | 140               |
| -           |                     |                       | +                    |               |                   |            |              | <del></del>             |              |             |                   |
| L           | <del></del>         | L                     |                      | in 4 DECO     | DD OF MUD         | DING       | ND CEM       | ENTING                  |              |             | [                 |
|             |                     | in Feet               | Hole                 | ion 4. RECO   | cs.               | Cubic Fe   | et           |                         | nod of Pla   | cement      |                   |
| F1          | rom                 | То                    | Diameter             | of M          | ua                | of Ceme    | nt           |                         |              |             |                   |
|             | <del>-, . ,</del> - |                       |                      | -             |                   |            |              |                         |              |             |                   |
|             |                     |                       | -                    | <del> </del>  |                   |            |              |                         |              |             |                   |
| L           |                     | <u> </u>              | <u> </u>             |               |                   |            | !_           |                         |              |             |                   |
|             |                     |                       |                      |               | on 5. PLUGG       | ING REC    | CORD         |                         |              |             |                   |
|             | -                   |                       |                      |               |                   |            |              | Depth i                 | n Feet       | Cu          | bic Feet          |
|             | -                   |                       |                      |               |                   |            | No.          | Тор                     | Bottom       |             | Cement            |
| Pluggin     | g appro             | ved by:               |                      |               |                   |            | 2            |                         |              |             |                   |
| <del></del> |                     |                       | State Eng            | gineer Repres | entative          |            | 4            |                         |              |             |                   |
| Data P      | eceived             |                       |                      | FOR USE       | OF STATE          | ENGINE     | ER ONL       | Y                       |              |             |                   |
| Jait K      | CCGIAGG             | June 22               | . <b>,</b> 1988      |               | Qu                | ad         |              | FWL                     |              | FSL         |                   |

DOMESTIC Location No.

L-10,011

19.38.14.1110

### MEMORANDUM OF MEETING OR CONVERSATION

| ▼ Telephone Personal                                     | Time 8:45 A  | m        | Date 2       | -19-96    |                |
|----------------------------------------------------------|--------------|----------|--------------|-----------|----------------|
| Originating Party                                        |              |          | <u>Other</u> | Parties_  |                |
| WES Root - consultar                                     | nt for       | Pat      | Sanche       | 2 - UCT   | >.             |
| Pate Trucking, 392-6                                     |              |          |              |           |                |
| Subject Discharge PLAN                                   | 6W-20        | 1 -      | Things       | the t     | need to        |
| be addressed and                                         | commit       | ted t    | <i>O</i> .   | ·         |                |
| · · ·                                                    |              |          |              |           |                |
| Discussion () AST'S r                                    | equire 1     | 33%      | 2ndry        | conta     | inment,        |
| Saddle Tanks only regu                                   | ive Pad      | curb.    | (S) /        | Sampling  | rof            |
| the 2 wtn. Wells                                         |              |          |              |           |                |
| plugging of the Northan                                  | Well. (3)    | Canti    | ngency       | PLAN      | needs to       |
| address WKCC 1-203                                       | spill veport | ing /    | NNOCD        | Rule 1    | 16 - contact   |
| the Hobbs District at 3                                  | •            | //       |              |           |                |
| 4) If fish Pond is                                       |              |          |              |           |                |
| be sampled annually +                                    | for WKCC     | 3103.    | A.B.C. an    | nd Bern   | ned.           |
| (5) A time line to                                       | er inves     | tigati.  | ng the       | elosn     | re of          |
| the class I wells                                        | - sample     | for      | BTEX, TPH    | t, & Haz. | const./charac. |
| the class II. wells  Conclusions or Agreements 6. Will   | 11 submit    | a +      | incline.     | to prop   | pose when      |
| the washout sump will                                    | be con       | structeo | 1- mus       | 1 meet    | ap             |
| the washout snow will buildelines - submit constructions | ction diagr  | ram fo   | or oct       | o apprei  | al-sute Fe,    |
| Mr. Root will co                                         | nll back     | wedi     | nesday 2     | 2,21,96   | to contium     |
| commitments - will the                                   | file ru      | 133045.  |              |           |                |
| Distribution File.                                       | Si           | and C    | stings       | 11 D      |                |
|                                                          | l            |          |              |           |                |

# ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

| Thereby acknowledge was to be                                             | check No dated 2/5/96       |
|---------------------------------------------------------------------------|-----------------------------|
| • /                                                                       | in the amount of \$ $50.00$ |
| from Bruton Suc                                                           | In the amount of \$ 30.00   |
| for Pate Trucking - Ho                                                    | bls 6w-236                  |
| Submitted by:                                                             | Date:                       |
| Submitted to ASD by:                                                      | Date: 3/25/96               |
| Received in ASD by:                                                       | Herrera Date: 3-29-96       |
| Filing Fee X New Facil:                                                   | ty Renewal                  |
| Modification other                                                        |                             |
| Organization Code 521.07                                                  | Applicable FY 96            |
| To be deposited in the Water Qua                                          | lity Management Fund.       |
| Full Payment or Annu                                                      | al Increment                |
|                                                                           | •                           |
|                                                                           |                             |
| BRUTON SERVICE CO. INC. P. O. BOX 1136 806-592-2981 DENVER CITY, TX 79323 | -96<br>                     |
| PAY TO THE NMED Wals                                                      | holty Mand \$ 50 00         |

Western Commerce Bank District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 District IV - (505) 827-7131

# New Mexico Energy Merals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Submit Original Plus 1 Copy to Santa Fe 1 Copy to appropriate

Revised 8/8/95

District Office

Gw-236

### No. O ...

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES (Refer to the OCD Guidelines for assistance in completing the application) Renewal Modification X New Service Company OIL AND GAS EXCLORATION 1. Pate IRUCKING COMPANY, INC 2. South Eunice Highway, Hobbs, New Mexico 88240 3800 Contact Person: Mr. GARY Reid GENERAL MANAGER Phone: 505-392-8844 Township 7/95 Range R38E /4VSection 3. Submit large scale topographic map showing exact location. Attach the name and address of the landowner of the facility site. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility. 5. 6. Attach a description of all materials stored or used at the facility. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste 7. water must be included. Attach a description of current liquid and solid waste collection/treatment/disposal procedures. 8. 9. Attach a description of proposed modifications to existing collection/treatment/disposal systems. 10. Attach a routine inspection and maintenance plan to ensure permit compliance. 11. Attach a contringency plan for reporting and clean-up of spills or releases. 12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included. 13. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders. 14. CERTIFICATION I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

RECEWED

FEB 0 9 1996

Environmental Bureau
Oil Conservation Division



#### **NOTICE OF PUBLICATION**

FEB - 7 1996 2*059* USFWS - NMESSC

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-236) - Pate Trucking Company, Inc., Mr. Gary Reid, (505)-392-8844, 3800 South Eunice HWY., Hobbs, NM, 88240, has submitted a Discharge Plan Application for their Hobbs facility located in the NW/4 NW/4, Section 14, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico. Any planned discharges or incidental wastes will be collected in a closed top receptacle and disposed of at an OCD approved facility. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 55 feet with a total dissolved solids concentration of approximately 170 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 2nd day of February, 1996.

| STATE OF NEW MEXICO                                                                                          |
|--------------------------------------------------------------------------------------------------------------|
| NO EFFECT FINDING OH CONSERVATION DIVISION                                                                   |
| The described action will have no effect on listed species, wetlands, or other important wildlife resources. |
| Date SEAL February 13, 1996 WILLIAM J. LEMAY, Director                                                       |
| Consultation # GW960CD-1 WIL/pws                                                                             |
| U.S. FISH and WILDLIFE SERVICE                                                                               |
| NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE ALBUQUERQUE, NEW MEXICO                                          |

### Affidavit of Publication

| STATE | OF | NEW | MEXICO | ) |   |
|-------|----|-----|--------|---|---|
|       |    |     |        | ) | s |

COUNTY OF LEA

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

| State of New Mexico.                                                                                      |
|-----------------------------------------------------------------------------------------------------------|
| That the notice which is hereto attached, entitled                                                        |
| Notice Of Publication                                                                                     |
|                                                                                                           |
|                                                                                                           |
| закхак Бългания холи                                                                                      |
|                                                                                                           |
| COMPRESENTATIONS, was published in a regular and                                                          |
| entire issue of THE LOVINGTON DAILY LEADER and                                                            |
| not in any supplement thereof, Sheenest was an any supplement thereof, Sheenest was a supplement thereof. |
| BENNEXX AND SERVING X NO. (1) day                                                                         |
| มะพระสมราชสมราชสมราชสมราช beginning with the issue of                                                     |
| February 8 19 96                                                                                          |
| and ending with the issue of                                                                              |
| February 8 96 19                                                                                          |
| And that the cost of publishing said notice is the                                                        |
|                                                                                                           |
| sum of \$                                                                                                 |
| which sum has been (Paid) (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX                                           |
| Pipe Clemens                                                                                              |
| Subscribed and sworn to before me this                                                                    |
| day of February , 19 96                                                                                   |
| Notary Public Lea County, New Mexico                                                                      |

Sept. 28

My Commission Expires

LEGAL NOTICE
NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND
NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505)827-7131:

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If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of the State of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 2nd day of February, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY, Director
WJL/pws

SEAL

Published in the Lovington Daily Leader February 8, 1996.

#### AFFIDAVIT OF PUBLICATION

No. 35887

STATE OF NEW MEXICO County of San Juan:

ROBERT LOVETT being duly sworn says: That he is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Monday, February 12, 1996

and the cost of publication is: \$61.02

ON 1999 DERT LOVETT

appeared before me, whom I know personally to be the person who signed the

above document.

ly Commission Expires March 21, 1998

#### COPY OF PUBLICATION

### Legals



#### NOTICE OF PUBLICATION

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following-discharge plan application has been submitted to the Director of the Oil Conservation-Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

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New Mexico. Any planned discharges or incidental wastes will be collected in a closed top recen-

tacle and disposed of at an OCD approved facility. Groundwater most likely to be affected by a

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person. Requests for a public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on the information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 2nd day of February, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

/s/William J. LeMay WILLIAM J. LEMAY, Director

WJL/pws

SEAL

Legal No. 35887 published in The Daily Times, Farmington, New Mexico on Monday, February 12, 1996.

# The Santa Fe New Mexican

NEW MEXICO OIL CONSERVATION

ATTN: SALLY MARTINEZ

P.O. BOX 6429

SANTA FE, N.M. 87505-6429

AD NUMBER:466631

ACCOUNT: 56689

LEGAL NO: 59059

P.O. #96199002997

BECEIVED

FEB 1 6 1996

Environmental Bureau Oil Conservation Division

| 162         | LINES once | at  | \$_64.~80 |         |
|-------------|------------|-----|-----------|---------|
| Affidavits: |            |     | 5.25      | 1       |
| Tax:        |            | ··· | 4.38      | · · · · |
| Total:      |            |     | \$ 74.43  | ٠.      |

Energy, Minerals and Natural Resources Department Oil Conservation Division

rerested person. Requests I

(GW-236) - Pate Trucking for a public hearing shall set
Company, Inc., Mr. Gary
Reid, (505)-392-8844, 3800
South Eunice HWY., Hobbs,
NM, 88240, has submitted a
Discharge Plan Application
for their Hobbs facility in for their Hobbs facility lofor the nw/4 NW/4, Section 14, Township 19 South,
Range 38 East, NMPM, Lea
float disapprove the proposed
County, New Mexico. Any
planned discharges or incifor their hobbs facility lofor number of their hobbs facility lofor their hobbs facility life in public hearing
planned discharges or incifor their hobbs facility life in public hearing
planned discharges or incifor their hobbs facility lofor their Hobb fected by a spill, leak, or acci-submitted at the hearing. dental discharge to the surface is at a depth of approxi-GIVEN under the Seal of face is at a depth of approxi-GIVEN under the Seal of mately 55 feet with a total New Mexico Oil Conservadissolved solids concentration Commission at Santa Fe, tion of approximately 170 New Mexico, on this 2nd of mg/L. The discharge plan February, 1996. addresses how spills, leaks, STATE OF NEW MEXICO and other accidental discharges to the surface will be SION WILLIAM J. LEMAY, Director

Any interested person may Legal #59059 obtain further information Pub. February 9, 1996

NOTICE OF PUBLICATION from the Oil Conservation Division and may submit writ-STATE OF NEW MEXICO ten comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Mon-8:00 a.m. and 4:00 p.m., MonNotice is hereby given that day through Friday. Prior to
pursuant to New Mexico Water Quality Control Commission Regulations, the followconservation Division shall
ing discharge plan application, the Director of the Oil
ing discharge plan application has been submitted to after the date of publication
the Director of the Oil Conservation Division, 2040 of this notice during which
South Pacheco Santa Fo comments may be submitted South Pacheco, Santa Fe, to him and a public hearing New Mexico, 87505, Telemay be requested by any interested person. Requests

dental wastes will be col- is held, the director will ap-lected in a closed top receptawater most likely to be af-plication and information

#### AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO COUNTY OF SANTA FE

| the above address between                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oil Conservation Division 8:00 a.m. and 4:00 p.m., Mon-                                                    | I, BETSY PERNER being first duly sworn declare and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| attraction in the day through Friday. Prior to                                                             | say that I am Legal Advertising Representative of THE SANTA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Notice is hereby given that day in rough Filedy. File to                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pursuant to New Mexico Wa-charge plan or its modifica-                                                     | FE NEW MEXICAN, a daily news paper published in the English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ter Quality Control Commis-tion, the Director of the Oil                                                   | language, and having a general circulation in the Counties of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| sion Regulations, the follow-Conservation Division shall                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ing discharge plan applica-                                                                                | Santa Fe and Los Alamos, State of New Mexico and being a News                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| tion has been submitted to after the date of nublication                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| the Director of the Oil Coll of this notice during which                                                   | paper duly qualified to publish legal notices and advertise-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ser Validi Division, 2040 comments may be submitted                                                        | ments under the provisions of Chapter 167 on Session Laws of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 300111 Facheco, Salita Fe, to him and a public hearing                                                     | 1937; that the publication $\#^{59059}$ a copy of which is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| New Mexico, 8/505, Tele-                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| phone (505) 827-7131: terested person. Requests                                                            | hereto attached was published in said newspaper once each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| for a public hearing shall set                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (GW-230) - Fale Hocking forth the reasons why a hear-                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Company, Inc., Mr. Gary ing shall be held A hearing                                                        | tice was published in the newspaper proper and not in any                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| RPIG. 15051-397-8844. 3800                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| South Eunice HWT., Hopps, termines there is significant                                                    | supplement; the first publication being on the 9th day of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NM, 88240, has submitted a public interest                                                                 | FEBRUARY 1996 and that the undersigned has personal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| for their Hobbs facility lo-                                                                               | knowledge of the matter and things set forth in this affida-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| cated in the NW/4 NW/4, Sec-                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| tion 14, Township 19 South, the Director will approve the Range 38 East, NMPM, Lea disapprove the proposed | 1st Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Marke |
| County, New Mexico. Any plan based on information                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| planned discharges or inci-available. If a public hearing                                                  | LEGAL ADVERTISEMENT REPRESENTATIVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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<u>District I</u> - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 **District II** - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 District IV - (505) 827-7131

### New Mexico Energy N herals and Natural Resources Deartment Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505

(505) 827-7131

Revised 8/8/95

Submit Original Plus I Copy to Santa Fe 1 Copy to appropriate District Office

### DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES

|   | (Refer to the OCD Guidelines for assistance in completing the application)                                                             |
|---|----------------------------------------------------------------------------------------------------------------------------------------|
|   | New Renewal Modification                                                                                                               |
|   | Type: OIL AND GAS ExploRation Service Company                                                                                          |
|   | Operator: Pate Trucking Company, Inc.                                                                                                  |
|   | Address: 3800 South Eunice Highway, Hobbs, New Mexico 88240                                                                            |
|   | Contact Person: Mr. GARY Reid GENERAL MANAGER Phone: 505-392-8844                                                                      |
|   | Location: NW 14 NW 14 Section 14 Township 7/95 Range R 38E  Submit large scale topographic map showing exact location.                 |
|   | Attach the name and address of the landowner of the facility site.                                                                     |
| • | Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility             |
|   | Attach a description of all materials stored or used at the facility.                                                                  |
| • | Attach a description of present sources of effluent and waste solids. Average quality and daily volume of wast water must be included. |
|   | Attach a description of current liquid and solid waste collection/treatment/disposal procedures.                                       |
|   | Attach a description of proposed modifications to existing collection/treatment/disposal systems.                                      |
|   | Attach a routine inspection and maintenance plan to ensure permit compliance.                                                          |
|   | Attach a contringency plan for reporting and clean-up of spills or releases.                                                           |
| - | Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included                     |
|   | Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulation and/or orders.            |
|   | CERTIFICATION                                                                                                                          |
|   | I hereby certify that the information submitted with this application is true and correct to the best of my knowledg and belief.       |
|   | Name: GARY D. REID Title: Gren-Mgr.                                                                                                    |
|   | Name: GARY D. REID Title: Gren - Mgr.  Signature: House & - Reid Date: 2-1-96                                                          |
|   | RECENED                                                                                                                                |

FEB 0 9 1996

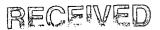
Environmental Bureau Oil Conservation Division

# **DISCHARGE PLAN**

### prepared for

### Pate Trucking Company, Inc.

for the facility located at 3800 South Eunice Highway Hobbs, New Mexico 88240



FEB 0 9 1996

Environmental Bureau
Oil Conservation Division

Prepared by:

F. Wesley Root

3624 West Casa Verde Hobbs, New Mexico 88241 (505) 392-8844

February 7, 1996

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#### I. **Type of Operation**

Pate Trucking Company, Inc. is an Oil and Gas Service Company that provides transport services to clients in the oilfield. The facility is located on Highway 18 approximately 1.5 miles south of the corporate boundary of the city of Hobbs, New Mexico.

The major purpose of the facility is to provide an equipment yard, office, routine maintance building, and chemical storage area for Pate Trucking Company, Inc. No non-domestic wastes are disposed of at the facility. The only domestic wastes discharged to the environment at the site is effuent from the office septic system.

The normal hours of operation are 7:00 AM to 5:00 PM Monday through Friday. The facility is fenced and secured during hours when company personnel are not present.

#### II. Name of Operator or Legally Responsible Party and Local Representive

Operator:

Pate Trucking Company, Inc.

3800 South Eunice Highway Hobbs New Mexico 88240 Telephone: 505-392-8844

Responsible Party:

Same as above

Local Representives: Mr. Gary Reid - General Manager

Mr. Mark Mead - Vice President Mr. Mike Harvey - Sale Manager Mr. Allen Hodge - Safety Officer

#### III. Location of Potential Discharge

The facility is located in the Northwest Quarter of the Northwest Quarter of Southwest Quarter of Section 14, Township 19 South, Range 38 East, N.M.P.M., Lea County, New Mexico (Figure 1, Appendix A).

#### IV. Landowners

Currently, Pate Trucking Company, Inc. is leasing the facility. The landowner of record

is:

Mr. Darrell Compton

1401 North Avenue D Denver City, Texas 79323 Telephone: 806-592-7006

#### V. **Facility Description**

The facility is situated on approximately seven acres of land. A diagram of the facility including facility/property boundaries, fences, pits, berms, tanks, locations of discharges, storage facilities, disposal facilities, processing facilities, and other relevant areas is shown in Figure 2, Appendix A. The facility consists of the following:

- An office building
- A maintance/shop building
- One abandoned non-registered water well
- One active non-registered water well
- An abandoned concrete wash pad with sump
- Two abandoned leech fields (Class V injection wells)
- An active underground septic system
- An above ground diesel storage tank
- An above ground used oil storage tank
- An above ground liquid petroleum gas (LPG) storage tank
- An above ground KCL storage tank
- An unlined fish pond
- A drum storage area with an impermeable surface
- An equipment storage yard

All storage tanks at the facility are above ground (AST) and constructed of either fiberglass or carbon steel. The storage tanks are used to store wastes (used oil), chemicals (KCL water), and fuels (diesel and LPG) and are surrounded by secondary containment areas. Secondary containment is provided by plastic lined earthern dikes. All secondary containment areas have the capacity to hold at least 110% of the volume of the tank within the containment area. There are no drains or underground piping associated with these areas. Should an accumulation of fluids/rainfall occur with in the confinds of the containment areas, the contents are inspected and characterized in arrordance with state and Federal regulations prior to discharge/disposal.

The abandoned concrete wash pad with sump and the two abandoned leech fields (Class V injection wells) were abandoned prior to and have not been used since Pate Trucking took over the facility in September 1995. A proposed work plan to close the two abandoned leech fields in accordance with Unlined Surface Impoundment Closure Guidlines published by the NMOCD is currently being developed for NMOCD approval.

The drum storage area consists of a concrete pad (former wash pad) that is dedicated for the temporary storage of chemical drums which contain various chemicals used in the oilfield during well workover and completion operations. Chemicals are stored at the area for short periods of time (typically 1 to 7 days) prior to transport to the job site by Pate Trucking personnel.

The abandoned water well is enclosed in a metal shed and sequred by a padlock. The active water well is enclosed in a metal shed and used to supply water for the office septic system.

The unlined fish pond was constructed for decorative purposes only and is surrounded by an eathern berm to prevent the inflow of any stormwater runoff from the facility.

The active leach field ajacent to the office building is used to despose of domestic sewage generated from Office bathrooms. No other waste streams are mixed with sewage

### VI. Materials Stored or Used at the Facility

| Table I<br>Materials Stored or Used at the Hobbs, New Mexico Facility<br>Pate Trucking Company, Inc. |                                                    |                    |                     |                  |  |  |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------|---------------------|------------------|--|--|
| Category per NM                                                                                      | IOCD Discharge Plan Guidelines                     |                    |                     |                  |  |  |
| Material Stored                                                                                      | General Composition                                | Solid or<br>Liquid | Container<br>Type   | Volume<br>Stored |  |  |
| Category 1. Drill                                                                                    | ing Fluids                                         |                    |                     |                  |  |  |
| Not applicable                                                                                       | None                                               | None               | None                | None             |  |  |
| Category 2. Brin                                                                                     | es (KCL, NaCl, etc.)                               |                    | •                   |                  |  |  |
| Claytrol-TCS                                                                                         | Quaternary ammonium compound                       | solid              | lined paper         | 40 sacks         |  |  |
| KCL water                                                                                            |                                                    | Liquid             | AST                 | 250 bbls         |  |  |
| Category 3. Acid                                                                                     | ls/Caustics (MSDS provided in Ap                   | pendix 1)          |                     |                  |  |  |
| Not applicable                                                                                       | None                                               | None               | None                | None             |  |  |
| Category 4. Dete                                                                                     | ergents/soaps                                      |                    |                     |                  |  |  |
| Chemex Super<br>Foamer -A                                                                            | Ammonium salt of sulfated liner alcohol ethoxylate | Liquid             | 55-gal drum         | 1 drum           |  |  |
| Category 5. Solv                                                                                     | ents and degreasers (MSDS provid                   | led in Appe        | endix 1)            |                  |  |  |
| Mineral Spirits                                                                                      | Petroleum Distillates                              | Liquid             |                     | 5 gallons        |  |  |
| Kerosene                                                                                             | Petroleum Distillates                              | Liquid             |                     | 5 gallons        |  |  |
| Category 6. Para                                                                                     | fin Treatment/Emulsion Breakers                    | (MSDS pro          | vide in Apper       | ıdix 1)          |  |  |
| Paratrol X-10                                                                                        | Parafin solvent blend                              | Liquid             | Drum                | *                |  |  |
| AKA Surfac -10                                                                                       | Surfactant blend                                   | Liquid             | Drum                | *                |  |  |
| Category 7. Bioc                                                                                     | ides (MSDS provided in Appendix                    | (1)                |                     |                  |  |  |
| Not applicable                                                                                       | None                                               | None               | None                | None             |  |  |
| Category 8. Othe                                                                                     | rs                                                 |                    |                     |                  |  |  |
| HD-5 Propane                                                                                         | Propane, ethane, propylene                         | Liquid             | AST                 | 1000 gal         |  |  |
| No. 2 Diesel Fuel                                                                                    | Light hydrocarbon distillates                      | Liquid             | AST                 | 1000 gal         |  |  |
| Fleet Heavy<br>Duty Motor Oil                                                                        | Solvent refined hydrocarbon distillates            | Liquid             | 1 gallon<br>plastic | 24 gal           |  |  |
| Antifreeze                                                                                           | Inhibited Ethylene Glycol                          | Liquid             | Drum                | 55 gal           |  |  |
| * The volume of chen                                                                                 | nical drums temporally stored prior to transp      | oort will vary l   | oy job.             | -                |  |  |

### VII. Sources and Quantities of Effluent and Waste Solids Generated at the Facility

| Sources and Quantities of Efflue                                                                                                                                        | Table :                  |                                  | nhhs New Mexica Facility       |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|--------------------------------|--|--|--|
| 30urces and Quantities of Linus                                                                                                                                         | Pate Trucking Co         |                                  | DDS, IVEW PHEXICO PACHEY       |  |  |  |
| Category per NMOCD Discharge P                                                                                                                                          | lan Guidelines           |                                  |                                |  |  |  |
| Effluent Type                                                                                                                                                           | Volume Generated         | Additive Type                    | Additive Volume                |  |  |  |
| Category 1. Truck Wastes (Origina                                                                                                                                       | l Contents Trucked)      | )                                |                                |  |  |  |
| Not applicable                                                                                                                                                          | None                     | None                             | None                           |  |  |  |
| Category 2. Truck, Tank, and Drui                                                                                                                                       |                          |                                  |                                |  |  |  |
| Oil/water emulsion generated from cleaning of truck tanks *                                                                                                             | 20 bbls/month            | Residues of KCL water, crude oil | 10 gal/month                   |  |  |  |
| Category 3. Steam Cleaning of Par                                                                                                                                       | ts, Equipment Tank       | is                               |                                |  |  |  |
| Not applicable                                                                                                                                                          | None                     | None                             | None                           |  |  |  |
| Category 4. Solvent/Degreaser Use                                                                                                                                       |                          |                                  |                                |  |  |  |
| Sediment residue generated from cleaning small tools/parts                                                                                                              | 0.2 gal/month            | None                             | None                           |  |  |  |
| Category 5. Spent Acids or caustics                                                                                                                                     | s, or Completion Flu     | ıids                             |                                |  |  |  |
| Not applicable                                                                                                                                                          | None                     | None                             | None                           |  |  |  |
| Category 6. Waste Slop Oil                                                                                                                                              |                          |                                  |                                |  |  |  |
| Not applicable                                                                                                                                                          | None                     | None                             | None                           |  |  |  |
| Category 7. Waste Lubrication and                                                                                                                                       | Motor Oils               |                                  |                                |  |  |  |
| Used motor oils from company vehicles                                                                                                                                   | 55 gal/month             | None                             | None                           |  |  |  |
| Category 8. Oil Filters                                                                                                                                                 |                          |                                  |                                |  |  |  |
| Used oil filters from company vehicles                                                                                                                                  | 30 filters/month         | None                             | None                           |  |  |  |
| Category 9. Solids and Sludges from                                                                                                                                     | m Tanks                  |                                  |                                |  |  |  |
| Sediment residue generated from cleaning of truck tanks *                                                                                                               | 1 bbl/month              | None                             | None                           |  |  |  |
| Category 10. Painting Wastes                                                                                                                                            |                          |                                  |                                |  |  |  |
| Various types of non-lead base paints and hydrocarbon based thinners                                                                                                    | 1 gal/year               | None                             | None                           |  |  |  |
| Category 11. Sewage                                                                                                                                                     |                          |                                  |                                |  |  |  |
| Domestic sewage generated from Office. No other waste streams are mixed with sewage                                                                                     | 50 gal/day               | None                             | None                           |  |  |  |
| Category 12. Other Waste Liquids                                                                                                                                        |                          |                                  |                                |  |  |  |
| Not Applicable                                                                                                                                                          | None                     | None                             | None                           |  |  |  |
| Category 13. Other Waste Solids                                                                                                                                         |                          |                                  |                                |  |  |  |
| Industrial solid waste - office trash, paper, plastic, etc.                                                                                                             | 150 lb/month             | None                             | None                           |  |  |  |
| Spent automotive batteries **                                                                                                                                           | 6 batteries/yr           | lead, acid                       | Unknown                        |  |  |  |
| <ul> <li>Tank truck cleaning operations are performed<br/>generated from these operations disposed o</li> <li>** Used batteries are exchanged for new batter</li> </ul> | of at the NMOCD permitte | d facility.                      | ate, residues, and solid waste |  |  |  |

# VIII. <u>Description of Current Liquid and Solid Wase Collection/Storage/Disposal Procedures</u>

- 1. <u>Truck Wastes (Original Contents Trucked)</u> -Not applicable
- 2. Truck, Tank, and Drum Washing No washing of vehicles, tanks, or drums is currently performed at the Pate Trucking facility. All exterior washing of equipment and vehicles is performed at offsite commerical facilities. Chemical drums present at the facility typically belong to a client/chemical service company and are temporarly stored on a concrete pad one to seven days prior to transport to the job site. The Pate Trucking provides storage/transport service only. The client/chemical service company is responsible for the application of the chemical at the job site and the collection, storage, and disposal of any wastes generated.
- 3. <u>Steam Cleaning of Parts, Equipment, or Tanks</u> No steam cleaning of parts, equipment, or tanks is currently performed at the Pate Trucking facility. Periodic cleaning and inspection of tank interiors is performed offsite by commercial facilities equiped for these services.
- 4. <u>Solvent/Degreaser Use</u> Solvent/degreaser use at the facility is restricted to a small parts cleaning unit located in the shop building. This unit is a closed loop system which recirculates the solvent. No wastes generated by the unit are disposed of at the facility.
- 5. Spent Acids or caustics, or Completion Fluids Not applicable
- 6. <u>Waste Slop Oil</u> Not applicable
- 7. Waste Lubrication and Motor Oils Waste oil from vehicle maintance operations performed onsite by Pate Trucking personnel is collected and stored in a labelled above-ground storage tank. The AST is enclosed within a lined secondary containment The stored oil is periodicly removed (approximately every 90 days) for reclaiming by a permitted used oil recycler. All reclaimed oil is manifested prior to transport.
- 8. <u>Oil Filters</u> Oil filters removed during vehicle maintance are drained of excess oil and stored in the waste bin behind the office pending transport and disposal at the municipal landfill by a commercial waste management company.
- 9. <u>Solids and Sludges from Tanks</u> No washing of vehicles, tanks, or drums is currently performed at the Pate Trucking facility. All tank truck cleaning operations are performed at an offsite commercial facility (Parabo Disposal Facility). The rinseate, residues, and solid waste generated from these operations is disposed of at the NMOCD permitted facility

- 10. <u>Painting Wastes</u> Painting of tanks, vehicles, and equipment is performed off-site by commerical facilities. Any painting wastes generated by occasional touch-up work performed by Pate Trucking personnel are allowed to dry and the solids stored in the waste bin behind the office pending transport and disposal at the municipal landfill by a commerical waste management company.
- 11. <u>Sewage</u> Domestic sewage from the Pate Trucking office is discharged through the active septic system located north of the office building. No other waste streams are mixed with the sewage.
- 12. Other Waste Liquids Not applicable
- 13. Other Waste Solids Industrial solid waste consisting of general refuse (office trash, paper, plastic, etc.) is stored in the waste bin behind the office pending transport and disposal at the municipal landfill by a commercial waste management company.

### IX. Proposed Modifications

- 1. Verify that all lines that could permit effluent to enter two abandoned leach systems (Class V. injection wells) are plugged. Sample soils, remove leach systems and close in accordance with NMOCD unlined surface impoundment closure guidelines. Closure operations will follow a work plan that has been submitted to and approved by the NMOCD prior to initiating closure.
- 2. Develop a written procedure to perform an annual inspection of the below grade sump in the maintance building. The procedure will include cleaning, testing, disposal of any waste generated, inspection, and documentation of findings.

### X. Inspection, Maintenance, and Reporting

Chemical and waste storage area facilities are visually inspected routinely (daily) for leaks, corrosion or integrity problems; accumulated liguids in containment areas; improper labeling and storage practices; and open or deteriorated containers. Each storage area (except for the temporary drum storage area) is enclosed with in a plastic lined earthen berm, isolated from other potential waste streams, and contains no buried piping.

Normal maintance of the material storage facilities is performed by facility personnel under supervision of the General Manager. Routine maintenance includes inspection of storage areas, remediation of minor spills resulting from normal site operations which pose no threat to personnel and the repair of leaking fittings or valves.

The manager or Emergency Coordinator will determine which activities can be performed by facility personnel and which need to be contracted out due to the potential hazards involved.

Inspection and maintenance records are maintained in the Pate Trucking office which include inspection dates, results, actions taken, and modifications or repairs performed.

### XI. Spill/Leak Prevention and Reporting Procedures (Contingency Plans)

The current contingency plan is presented in Appendix C.

### XII. Site Characteristics

#### 1. <u>Surface Bodies of Water and Water Wells</u>

A field survey of the facility and surrounding area identified no bodies of water or streams, or other watercourses within one mile of the Pate Trucking facility, other than the on-site fish pond (which does not contain water at this time). A storm water drainage basin operated by the city of Hobbs (which does not contain water at this time) is located approximately 3/4 of a mile north-northwest of the facility. The drainage basin is located in an upgradient position relative to the facility. No groundwater discharge sites (seeps, springs, marshes, or swamps) were identified with in one mile of the facility.

Approximately 13 water wells were identified within a 1/4 mile radius and 41 wells were identified with in an one mile radius of the facility during a review of the water well completion files at the New Mexico State Engineers Office (NMSEO) in Roswell, New Mexico. According to the well records submitted to the NMSEO, the well depths for the area ranged from approximately 70 feet to 170 feet. Static water levels reported at the time the wells were completed ranged from 32 feet to 80 feet below ground surface. The wells are completed in the Ogallala Formation (primary water producing zone in the site area). The data obtained from the NMSEO is presented in Tables 3 and 4.

### 2. Water Quality

Water quality within the High Plains Aquifer in the site area is controlled by the composition of the recharge from rainfall and leakage from adjacent formations. Based on a review of the available published data, groundwater in the site area contains total dissolved solids (TDS) concentrations of approximately 150 parts per million (ppm) to 200 ppm. Water quality data obtained from the NMSEO reported chloride levels ranging from 188 ppm to 830 ppm (Table 3). No water quality data was available for the two wells located on the facility. However, preparations to sample these wells are underway and the results will be forwarded to the NMOCD when completed.

### 3. <u>Geologiy/Hydrology</u>

The site is located on the northwestern margin of the Central Basin Platform, a north south trending structural high that separates the Midland Basin to the east from the Delaware Basin to the west. Geologic formations at depth beneath the site dip gradually toward the south and west into the Delaware Basin and generally increase in thickness basinward. The shallower formations (Middle Triassic-age and younger) were deposited on several erosional unconformities and generally dip gradually to the southeast.

The geologic formation that outcrops in the site area is the Ogallala Formation of Tertiary age which is often covered by a thin layer of wind-deposited (eolian) dune sands of Recent age or Quaternary age alluvium. The Ogallala Formation ranges in thickness from approximately 100 to 200 feet and rests unconformably on Triassic-age sediments in the site area. Thickness of the Ogallala formation is primarily controlled by the paleotopography of the sub-Ogallala erosional surface with its greatest thickness attained along paleovalleys and a thinning of the formation along paleodivide areas.

The primary source of groundwater in the site area is provided by the High Plains Aquifer. The High Plains Aquifer is composed of hydraulically connected portions of the Quaternary Alluvium and Ogallala Formation. The contact between the Tertiary-age Ogallala formation and underlying Triassic-age sediments is an erosional unconformity that slopes regionally to the southeast. The unconformity is marked by an irregular thickness of Triassic-age shales, and sands (red beds). These red beds typically represent the lower limit of usable (potable) water in the area.

Based on a review of the available well logs of the site area, the depth to the water table is approximately 50 to 60 feet below ground surface. Groundwater movement beneath the site is toward the east-southeast and appears to parallel the drainage trend of the local topography.

The subsurface of the site consists of three general units; an upper unit (0 to 5 feet thick) of well-drained sandy loam belonging to the Kimbrough Soil Series; a middle unit (extending from the base of the loam to a depth of approximately 45 feet) composed of interbedded calcareous sands (caliche), limestones, and silicious sandstone; and a third unit composed of fine-grained, slightly calcareous to calcareous sands, clays, and often a scattered gravel. This unit extends from approximately 45 feet to the top of the Triassic-age shales, and sands (red beds).

Table 3
Water Quality of Water Wells with 1/2 Mile of Pate Trucking Facility
Analytical Results Obtained from the State Engineers Office

| Well              | Permit | Total | Depth to | Water | Date     | Well | Well     |       | Locatio |          | 1        | Water | Quality     |     |
|-------------------|--------|-------|----------|-------|----------|------|----------|-------|---------|----------|----------|-------|-------------|-----|
| Owner             | No.    | Depth | Water    | Zone  | Sampled  | Use  | Township | Range | Section | Location | Chloride | sc.   | Temperature | TDS |
| Marroquin, Frank  | W-1    | 100   |          | TOG   | 12/20/79 | IRR  | T19S     | R38E  | 15      | 41214    | 188      | 1348  |             |     |
| Marroquin, Frank  | W-2    | 100   |          | TOG   | 12/20/79 | DOM  | T19S     | R38E  | 15      | 412321   | 186      | 1049  | -           |     |
| Marroquin, Frank  | W-2    | 100   |          | TOG   | 11/29/84 | DOM  | T19S     | R38E  | 15      | 412321   | 276      | 1331  | -           |     |
| Marroquin, Frank  | W-2    | 100   |          | TOG   | 07/12/90 | DOM  | T19S     | R38E  | 15      | 412321   | 450      | 1988  |             |     |
| Terry, Johnny     | W-3    |       |          | TOG   | 11/29/84 | DOM  | T19S     | R38E  | 15      | 412322   | 284      | 1602  | -           |     |
| Viro-Montes       | W-4    |       |          | TOG   | 11/12/84 | DOM  | T19S     | R38E  | 15      | 41413    | 158      | 1178  | -           |     |
| Champion Chemical | W-5    |       |          | TOG   | 11/30/79 | DOM  | T19S     | R38E  | 15      | 422444   | 186      | 1405  | 66          |     |
| Champion Chemical | W-6    | 123   |          | TOG   | 08/17/77 | DOM  | T19S     | R38E  | 15      | 424233   | 504      | 2370  | 82          |     |
| Champion Chemical | W-6    | 123   |          | TOG   | 11/29/84 | DOM  | T19S     | R38E  | 15      | 424233   | 372      | 2208  | -           |     |
| Champion Chemical | W-7    | 142   |          | TOG   | 08/25/65 | COM  | T19S     | R38E  | 15      | 42441    | 830      | 3110  |             |     |
|                   |        |       |          |       |          |      |          |       |         |          |          |       |             |     |

Permit No. is issued by State Engineer. Where no well completion record was identified in State files a unique number beganing with a "W" was used to reference the well in this report.

Location uses state number code

Well Use - DOM=Domestic, IRR=Irrigation, COM=Commerical, OWD=Oil well drilling

-- No data available

Table 4
Summary of Water Wells Identified with in 1/2 mile of Pate Trucking Facility
Well Records on File with the State Engineers Office

|                                             | 1 -          |            |             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 777              |          | -    |    |        |
|---------------------------------------------|--------------|------------|-------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|------|----|--------|
| Well :                                      | Permit       |            | Depth to    |           | According to the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t |                  | - Well   |      |    | -      |
| Owner .                                     |              | Depth,     |             | Completed | ( CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTO | o possifications | Township |      |    |        |
| Narroquin, Franciso                         | L-6759       | 100        | 45          | 03/10/71  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 221    |
| Warroquis, Francisco                        | L-6858       | 100        | 45          | 12/06/71  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DOM              | T19S     | R38E | 15 | 230    |
| Townsend, Bobby                             | L-7357       | 101        |             | 04/12/75  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 24221  |
| Lee, G. D.                                  | L-8046       | 130        | 58          | 03/20/80  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 244    |
| Sherrill, Wilbur                            | L-7359       | 117        | 57          | 04/11/75  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 24444  |
| Dean, T. M.                                 | L-2667       | 108        | 70          | 02/21/57  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 400    |
| Bonner, C. C.                               | L-7512       | 100        | 32          | 04/14/76  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | T19S     | R38E | 15 | 4122   |
| Weldy, G. W.                                | L-7882       | 100        | 32          | 04/19/79  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 41100  |
| Glasspoole, Frank                           | L-6101       | 100        | 38          | 12/22/85  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 41131  |
| Clark, J. C.                                | L-4489       | 100        | 41          | 08/28/60  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 413    |
| Fulkerson, James                            | L-10046      | 120        | 70          | 11/26/88  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 4130   |
| Benny, Bobby                                | L-9821       | 100        | 51          | 05/03/86  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 41340  |
| Dobbins                                     | L-9012       | 100        | 32          | 08/02/82  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 414    |
| Dobbins, Hazel                              | L-9310       | 120        | 58          | 08/29/83  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 414    |
| Dobbins, B. R.                              | L-7381       | 100        | 50          | 05/16/75  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 41412  |
| Attaway, Neal                               | L-5013       | 100        | 47          | 04/09/63  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 420    |
| Scott, R. W.                                | L-9896       | 100        | 38          | 02/17/87  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 42124  |
| Ballew, Wayne                               | L-4107       | 112        | 60          | 04/23/59  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 422    |
| Barton, J. E.                               | L-4622       | 70         | 46          | 06/01/61  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 422    |
| Morrow, Terry                               | L-7379       | 120        | 44          | 05/31/75  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 42312  |
| Phar, T.                                    | L-4539       | 100        | 48          | 11/05/60  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 424    |
| Hardin & Houston                            | L-6733       | 123        | 50          | 11/16/79  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 424233 |
| Spradley, Jim                               | L-10322      | 133        | 44          | 04/13/93  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | D&S              | T19S     | R38E | 15 | 42424  |
| Hardin & Houston                            | L-5623       | 142        | 52          | 06/06/64  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | COM              | T19S     | R38E | 15 | 42441  |
| Bingham, M. L.                              | L-2689       | 83         | 49          | 11/30/54  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | T19S     | R38E | 15 | 444    |
| Bingham, N. L.                              | L-3248       | 123        | 48          | 04/28/58  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IRR              | T19S     | R38E | 15 | 44412  |
| Aaron, A. A.                                | L-8352       | 118        | 50          | 09/17/80  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 15 | 44     |
| Tarber, Joe                                 | L-10138      | 170        | 60          | 12/15/90  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IRR              | T19S     | R38E | 15 | 44333  |
| Wallen Production                           | L-8250       | 125        | 80          | 01/12/80  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OWD              | T19S     | R38E | 15 | 34244  |
| Younger Construction                        | L-3658       | 120        | 50          | 08/28/57  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 14 | 310    |
| Selman, J. A.                               | L-1021       | 168        | 75          | 02/22/57  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IRR              | T19S     | R38E | 14 | 222    |
| Selman, Frank                               | L-345        | 124        |             | 10/26/47  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | T19S     | R38E | 14 | 142    |
| Selman                                      | W-8          | 125        | 65          | 04/13/53  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | T19S     | R38E | 14 | 240    |
| Caprock Communications                      | L-10011      | 140        | 60          | 06/15/88  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOM              | T19S     | R38E | 14 | 1110   |
| Permit No. is issued by State Engineer When | e no well co | nnletion r | ecord was i |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |          |      |    |        |

Permit No. is issued by State Engineer. Where no well completion record was identified in State files a unique number beganing with a "W" was used to reference the well in this report.

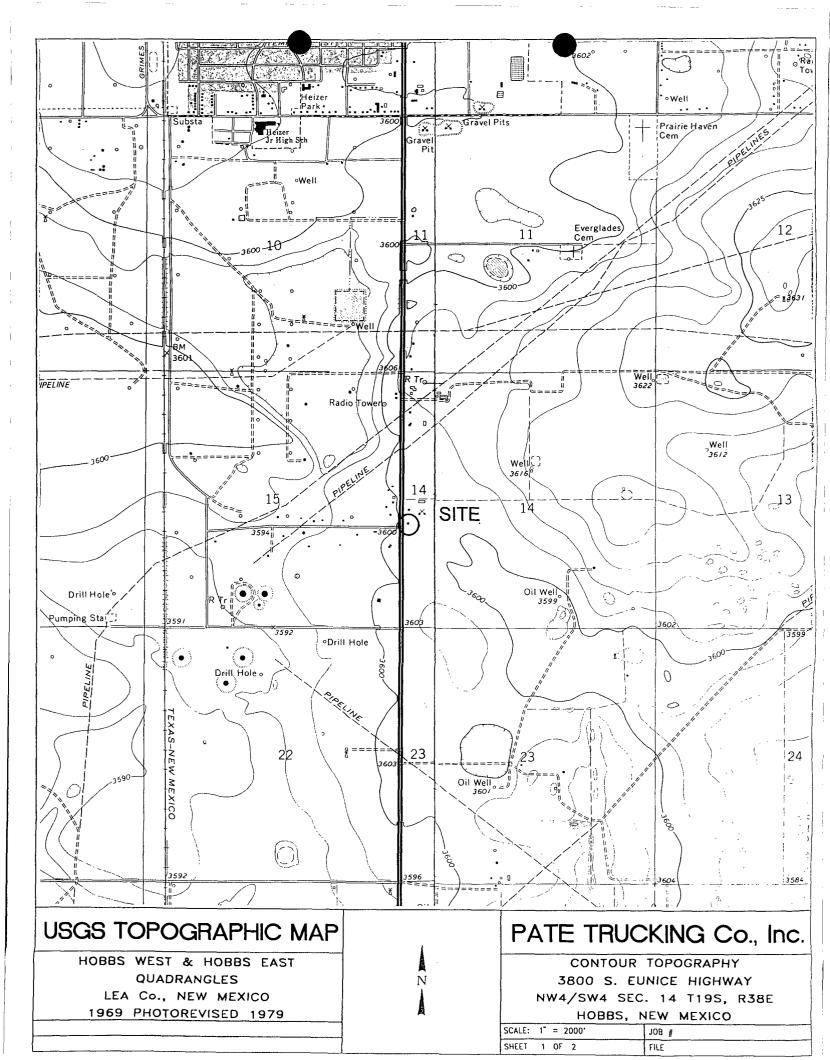
Location uses state number code

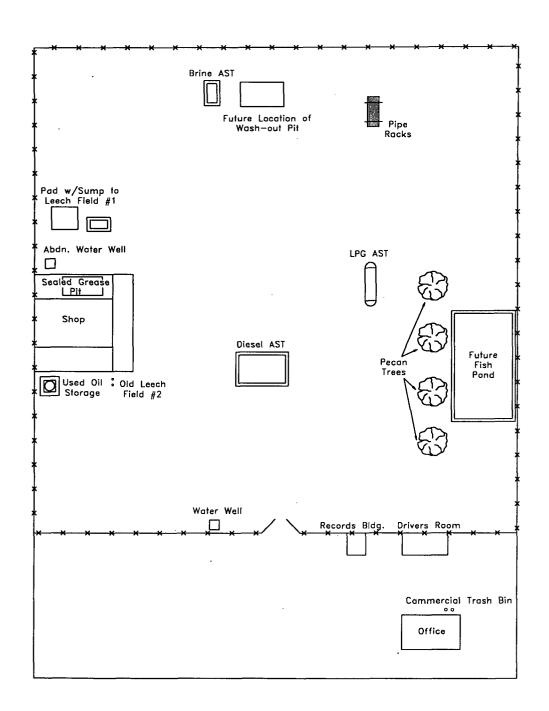
-- No data available

Well Use - DOM=Domestic, IRR=Irrigation, COM=Commerical, OWD=Oil well drilling

Appendix A

Figures



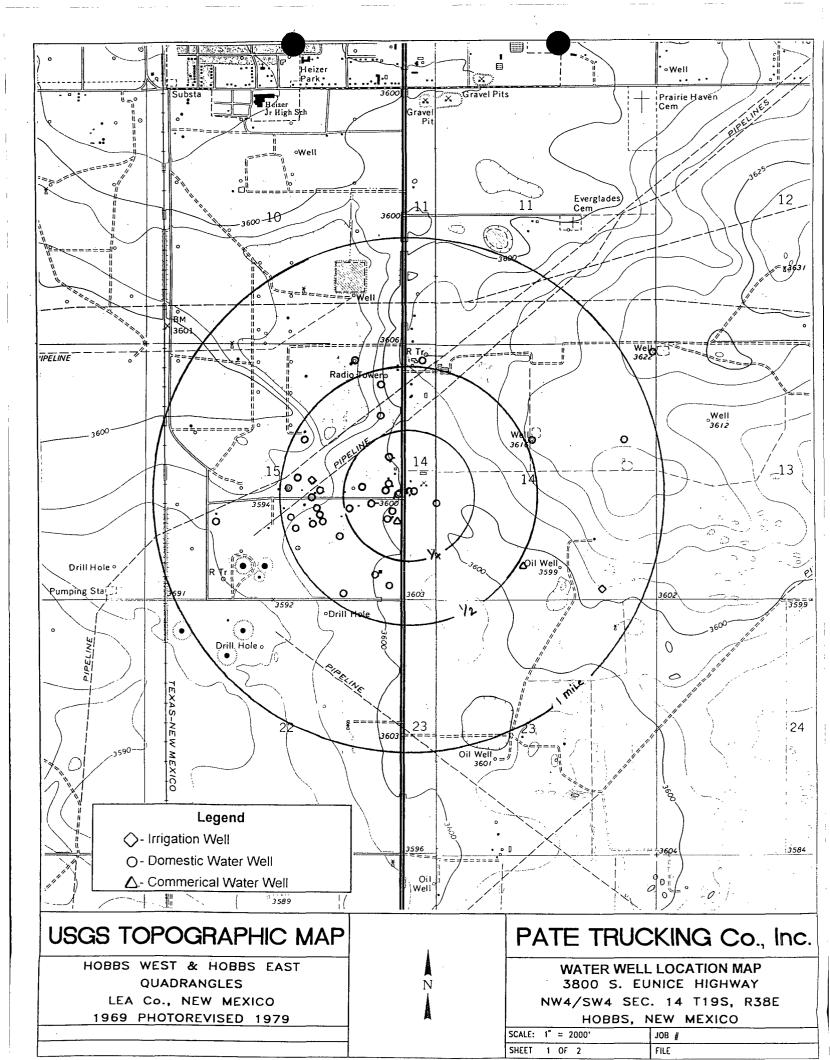


AST = Abaveground Storage Tank

# PATE TRUCKING Co., Inc.

SITE MAP 3800 S. EUNICE HIGHWAY NW4/SW4 SEC,14, T19S, R38E HOBBS, NEW MEXICO

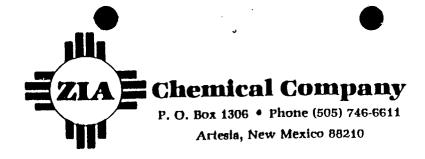
| DATE:2-7-96     | DRAWN M.F.G. | REV. DATE | DIV |
|-----------------|--------------|-----------|-----|
| SCALE: 1" = 100 | )'           | JOB #     |     |
| DRAWING 3 OF    | 3            | FILE:     |     |



# Appendix B

**Material Safety Data Sheets (MSDS)** 

H-2 K-0 K-D



# PRODUCT INFORMATION

# CI-119 Corrosion Inhibitor

" Cor. TroL.

# DESCRIPTION

CI-119 is an oil soluble, water dispersible corrosion inhibitor formulated from an oil soluble complex amide and an oxalkylation of a complex amine.

CI-119 has excellent mobility in both phases of the producing system and exhibits excellent film persistency. It is formulated for use as a general purpose inhibitor which can be applied by chemical injection truck or conventional lubricator.

# TYPICAL PHYSICAL PROPERTIES

**FORM** 

Liquid

DENSITY @ 60°F (1b/gal)

7.85

POUR POINT

Below OOF

FLASH POINT

Above 140°F

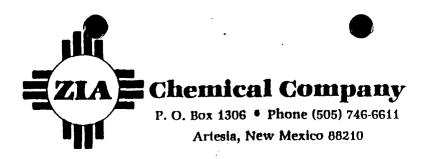
SOLUBILITY

Oil soluble; water dispersible

# APPLICATION METHOD

CI-119 may be applied by chemical injection truck in which case it should be dispersed in fresh water or crude oil in a ration of I part chemical, 40 parts fluid and overflushed with one or more bhl water or oil. The overflushing is not mandatory; however, will insure inhibitor reaches bottom.

Application by means of a conventional lubricator is also very effective if followed by circulation and flushing with one or more bbl of produced fluid down the casing annulus. Posage amounts and frequency of treatment are determined by individual well characteristics. All the possible variables cannot be covered in this product description.



# HANDLING PRECAUTIONS

CI-119 is non-toxic and is not considered dangerous. However, reasonable precautions should be taken to avoid physical contact. Skin irritations may result from prolonged exposure. Rinse affected areas with fresh water and wash with soap and water.



Zia Code:

Cor-Trol-2 Corossion Inhibitor

Chemical Name: Not applicable; Blend

OSHA: Component

Irritant: Strong oxidizing agents, plus alkalines and Fatty Acids.

First Aid and Nature of Hazard.

# Eye Contact:

Flush eyes with large amounts of water until irritation subsides. If irritation presists, get medical attention. Irritating, but does not injure eye tissue.

## Skin Contact:

Remove grossly contaminated clothing, and launder before reuse.

If irritation persists, seek medical attention. Low order of toxicity.

Frequent or prolonged contact may irritate and cause dermatitis.

# Inhalation:

Vapors which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

# Ingestion:

First aid not mormally required . Low order of toxicity.

PHONE 505.746.6100 CHEMEX

P. O. Box 423 ARTESIA, NEW MEXICO 88210

H-0 R-0 S-D

PRODUCTION - CHEMICALS - DRILLING

# PRODUCT INFORMATION

TBC-2 Surfactant
(AKA Surfac - 10)

# DESCRIPTION

Chemex  $\mathcal{IBC}_{-2}$  surfactant is a non-ionic surface active agent. It is formulated for use in all oil field brines and fresh water. The product is compatible with both acid and caustic solution.

Oil coated and impregnated scale consisting of calcium carbonate, calcium sulfate, and iron sulfide are removed more effectively by the use of Sur-Fac 10 with an acid or caustic solution. Oil, suspended in the workover solution.

Demulsifiers incorporating Sur-Fac 10 in the formulation are most effective in water wetting iron sulfide particles.

# TYPICAL PHYSICAL PROPERTIES

FORM Liquid

DENSITY @ 60<sup>0</sup>F (1b/gal) 8.42

POUR FOINT 15<sup>0</sup>F

SOLUBILITY Water soluble; oil dispersible

Contains no arsenic, heavy metals, or organic chlorine compounds.

# APPLICATION METHOD

INJECTION WELLS: A controlled dosage of .5% -1.0% based upon the water injection rate for 5-30 minutes will emulsify heavy hydrocarbons filtered out at the formation face. If the well is making fluid on vaccum, it is a simple matter to bleed 1 or more gallons into a tee in the line to the well. Example:

Assumption: An injection well at the rate of 1 bb1/1 minute and a desired chemical dosage of .5% for 20 minutes.

Find: Gallons of chemical to be fed during a 20 minute "wash". Solution:  $42 \text{ gal/min } \times .005 \times 20 \text{ min}$ . Answer: 4.2 gal.

ACID OR CAUSTIC SOLUTIONS: 1 to 2% concentration in an acid or caustic solution is adequate to improve the effectiveness of either chemical treatment.



P. O. Box 423 ARTESIA, NEW MEXICO 88210

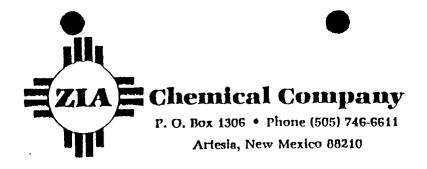
PRODUCTION - CHEMICALS - DRILLING

Sur-Fac 10 will dissolve in concentrated solution of electrolyte at low or high pH without degration or loss of effectiveness.

KOBE SYSTEM: Sur-Fac 10 injected continuously at a rate of 1 gal/1000 bbl of power oil will help prevent pump sticking and it is recommended that fresh water be maintained on the bottom of the power oil tank into which 10 to 20 gallons of Sur-Fac 10 is added. Chloride levels would be checked periodically and fresh water added as needed.

# HANDLING PRECAUTIONS

Sur-Fac 10 is a surfactant that is non-toxic and requires no special handling precautions.



Zia Code

-TBC-Z

Chemical Name: Not applicable, Blend

OSHA: Component

Irritant: Primary skin irritant and defatting agent.

Nonionic surfactant/detergent.

First Aid and Nature of Hazard

# Eye Contact;

Flush with large amounts of water until irritation subsides. If persists, seek medical attention. May cause redding and conjunctivites.

# SKIN CONTACT:

Remove grossly contaminated clothing and launder before reusing.

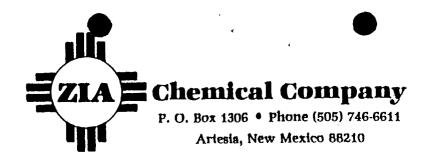
## INHALATION:

Vapors which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

## INJESTION:

Injestion of this material may result in toxic effects.

H-2 F-4 R-0 S-0



# PRODUCT INFORMATION

# Paratrol X-10 Paraffin Solvent

# DESCRIPTION

Paratrol X-10 contains a combination of ingredients which have proven to be the most effective broad spectrum paraffin solvent in the oil producing industry. Paratrol will dissolve both microcrystalline wax and asphalt-base heavy hydrocarbons.

# TYPICAL PHYSICAL PROPERTIES

FORM.

Liquid

DENSITY @ 60°F (1b/gal) 9.21

FLASH POINT

Below 50°F

POUR POINT

-20°F

SOLUBILITY

Oil soluble, water insoluble

Contains no arsenic compounds or chlorinated hydrocarbons.

# **APPLICATION METHODS**

Generally, paraffin solvents are best applied by periodic batch treatment and Paratrol X-10 is no exception. In pumping wells, five or ten gallons poured into the tubing head and allowed to soak overnight will often facilitate pulling the rods out.

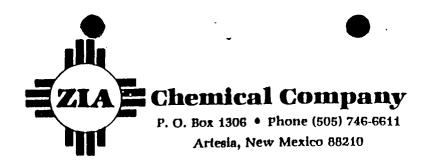
Flow lines are treated with lubricators near the well. Dosage and frequency of treatment vary widely according to the rate of oil production and severity of the condition.

Continuous injection of Paratrol X-10 into flow lines has been reported to be very successful for paraffin control.

Another method of paraffin control is the use of PI-1200 Paraffin Inhibitor when conditions are suitable for the application of this product. Refer to the product information sheet on PI-1200 in this manual for further details.

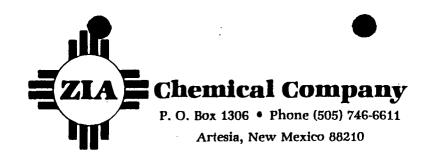
# HANDLING PRECAUTIONS:

WARNING!! Care should be exercised to prevent vapor exposure to sparks



or flame. Store in a ventilated area away from engines, electric motors, and open flames.

;; .



Zia Code: Paratrol X-10

Chemical Name: Not Applicable, Blend

Osha: Component

Physical Data: Boiling Point 115.8 C - 240 F

Percent Volatiles By Volume - 100 Freezing Point - 83.5 C - -118 F

Flash Point - Below 75 F Soluability - Oil Soluable

Water Dispersible

Fire & Explosion Hazard Data:

Avoid heat, open flame, sparks, and contact with strong oxidizing agents. Extinguishing Media: Use CO<sup>2</sup> or dry chemical for small fires; alcoholtype aqueous film-forming foam for large fires.

Special Fire Fighting Procedures:

Do not enter any enclosed or confined fire space without protective equipment. This may include self contained breathing apparatus.

# Emergency & First Aid Procedures:

Eye Contact:

Flush eyes with water for at least 15 minutes. Contact physican. Skin Contact:

Remove contaminated clothing. Flush skin with water. If irritation persists contact a physican. Do not reuse clothing until cleaned.

Remove victim to fresh air and provide oxygen if breathing is difficult. Give artifical resperation if not breathing. Get mdeical attention.

Ingestion:

Induce vomiting of conscious victim immediately by giving no more than two glasses of water and touching finger to back of victims throat. Seek medical attention.

Reactivity:

Stability - Stable

Hazardous Polymerization - Will Not Occur

PHONE 505 . 746.6100

H-1 F-0 S-D



P. O. Box 423 ARTESIA, NEW MEXICO 88210

PRODUCTION - CHEMICALS - DRILLING

# PRODUCT INFORMATION

Chemex Super Foamer-A
WASH DOWN ......

DESCRIPTION

Chemex Super Foamer-A is a unique foamer having highly superior qualities in forming thick, stable foam which resist the ordinary destructive effects of chlorides, clays and other contaminants present in an air or gas system.

# TYPICAL PHYSICAL PROPERTIES

| APPEARANCE            | Liquid      |
|-----------------------|-------------|
| ODOR                  | Mild        |
| COLOR VCS             | 2 - 4       |
| TOTAL SOLIDS          | 60 - 63     |
| NON-IONIC-%           | Less than 3 |
| рН                    | 7           |
| POUNDS PER GAL        | 8.5         |
| FLASH POINT (COC), OF | 174         |

# CHEMICAL COMPOSITION:

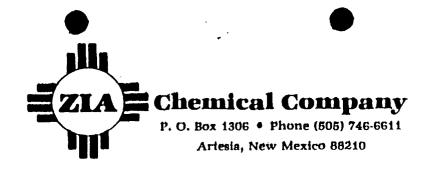
Ammonium Salt of Sulfated Linear Alcohol Ethoxylate

# SUGGESTED USES

Chemex Super Foamer-A is readily and completely biodegradable possesses high foaming properties in both soft and hard water, is an excellent emulsifier and detergent and is highly suitable for a wide variety of household and industrial uses. Primarily Chemex Super Foamer-A was designed to be used as a foamer for air drilling.

# HANDLING FRECAUTIONS

This material is non-toxic and is not considered dangerous to handle.



Zia Code: De-Trol, Sap, Degreaser

Chemical Name: Not applicable, Blend

OSHA: Component

Irritant: Oxyalkylated Phenol, Sulfanic Acid Salt Solution

First Aid and Nature of Hazard

## Eye Contact:

In case of eye contact, flush with copious amounts of clean water with eyelids open. If irritation persists, seek medical attention.

# Skin Contact:

Remove grossly contaminated clothing wash skin with mild soap/water. Launder clothing before reuse.

## Inhalation:

Vapors which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

## Ingestion:

Ingestion of this material may result in toxic effects.



# Frac Tech

A Division of Plainsman Technology Inc.



CLAYTROL

March 26, 1992

Revised March 31, 1994

KCL Substitute, temporary clay control

Product Class: Organic replacement for KOL, temporary control of swelling clays.

# Description:

Claytrol is a low molecular weight organic cation chloride in water. Claytrol is a highly concentrated product, designed to replace KCl in formation treatments and workovers. Claytrol is a high efficiency temporary stabilizer for smectite, illite and mixed layer clay minerals encountered in many reservoirs. Claytrol is not surface active and will not upset NE packages. Claytrol is less damaging to low permeability rock than most other KCL substitutes and permanent clay stabilizers.

# Physical Properties: Typical

Physical state liquid Specific gravity @ 60F(15C) 1.107 Density,  $15m/gal(g/cm^2)$  @ 60F(15C) 9.24(1.107) Pour point, F(C) <5(-15) Flash point, F(C) > 200(93) Boiling point, F(C) >212(100) Viscosity,  $CP \otimes F(C)$  2.3 @ 77(25)

## Chemical Properties: Typical

Chemical type

organic cation in water

lonic character

not surface active

Odor

mild amine

Color

colorless to pale yellow, clear

Shelf-life

> 2 year

Wetting tendency on sand

not surface active

on limestone

not surface active

Compatibility -

THE SUITAGE ACTIVE

No known compatibility problems with other typical additives or treating fluid systems, surfactants, gelling agents, crosslinkers.

Items from the Frac Tech product line have been tested.

Incompatibility - No known incompatiblities

## Mixing Procedure:

Claytrol can be run on—the—fly or be batch mixed. The recommended procedure is to add the Claytrol to the fluid prior to any other additives.

Technical Data

# Technical Limitation:

• Claytrol is highly concentrated but highly cost effective.

## Job Design Data:

Recommended loading is 4 to 2 gal per 1000 of fresh water, depending on mineralogy of the formation. At this loading Claytril will mimic KCL in terms of the swelling and sloughing of clay minerals in the reservoir rock.

## Comparative Performance Data:

Performance of KCl substitutes can be determined by their effect on the permeability of porcus media. The procedure accompanying this report was used to evaluate several commonly available materials. The results of those tests are reported below.

Although KCl has obvious advantages, as seen in the data, the organic temporary clay control products have many operational, environmental and technical pluses. Claytrol, as can be seen, is as good as or better than the other commercial agents.

|             |                   |          | Flow           | Rates     |                |                  |                  |          |
|-------------|-------------------|----------|----------------|-----------|----------------|------------------|------------------|----------|
|             |                   |          | Treated        | Regained  | Treated        | Fresh            | Capillary        |          |
|             | KC1               | Loading  | water          | brine     | Water Flow     | Water            | Suction          |          |
|             | <u>Substitute</u> | gal/Mgal | <u>% hrine</u> | % initial | يع على دسي سيت | Shit-tff. %      | Time. sec        | اسمح     |
|             | desired ran       | nge -    | >30            | >40       | <10            | >50              | >400 speci       | fica(    |
|             | 2% KC1            | Z/.      | 144%           | 80%       | 1.63           | 83%              | 600 stand        | ard      |
|             | NHaCl slurr       | -y 5     | 52%            | 37%       | 2.15           | 65%              | <del>384</del> . |          |
| _           | Cla-Sta 2         | 5        | 30%            | 16%       | 9,28           | 23%              |                  |          |
| $\subseteq$ | BIO - 31          | 5        | 7%             | 87.       | 18.33          | 4Z/.             | 129              | <b>*</b> |
|             | AY - 80           | 5        | 12%            | 22%       | 13.18          | 20%              | 14               |          |
|             | SP - 292          | 5        | 20%            | 42%       | 13.62          | 7%.              | 14               |          |
|             | TMAC (33%)        | 5        | 27%            | 35%       | 6.62           | 70%              | 472              |          |
|             | TMAC (50%)        | Z        | 39%            | 42%       | 5.0            | 63%              | 777              |          |
|             | ETMAC (33%)       | 5        | 30%            | 23%       | 10.15          | 74%              |                  |          |
|             | diquat            | 5        | 7%             | 12%       | 26.97          | 17%              | 653              |          |
|             | Claytrol          | 2        | 86%            | 47%       | 1.7            | 61%              | 993              |          |
|             | Claybrol          | 2.5      | 37%            | 28%       | 5.9            | 61%              | 813              | -        |
|             | Claytrol          | 5        | 43%            | 46%       | 5.3            | 75%              | 388              |          |
|             | Claytrol          | 10       | 68%            | 80%       | 1.2            | 7 <del>8</del> % | 115              | •        |

Safety: Refer to the Material Safety Data Sheet(MSDS).

Disclaimer: Frac Tech warrants only title to the goods sold. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE GOODS SOLD, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF UTILITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Frac Tech does not varrant: 1) that the goods sold or the use made thereof by the buyer will not infringe any intellectual property rights, including but not limited to, patents of any third party, and 2) that use of the goods sold will damage any subterranean formation which comes into contact with goods.



P.O. Box 557 Marlow, OK 73055 (405)658-6608

CLAYTROL-TCS(TM)

|                                                                                                                                                                                                  | SECTION I -                                                                                                | - IDENTIFICATION                                                                             |                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| =======================================                                                                                                                                                          | =======================================                                                                    |                                                                                              | =======================================                                 |
| COMPANY NAME                                                                                                                                                                                     | FRAC TECH DIV<br>P.O. BOX 557<br>MARLOW, OK 7<br>(405)658-6608                                             | 73055                                                                                        | TECHNOLOGY, INC.                                                        |
| EMERGENCY PHONE NUMBER                                                                                                                                                                           | DOMESTIC (800                                                                                              |                                                                                              |                                                                         |
| EFFECTIVE DATE                                                                                                                                                                                   | January 17, 1<br>KCl Substitut<br>CLAYTROL-TCS <sup>4</sup><br>Quaternary am                               | .995<br>ce<br>tm)<br>nmonium compound                                                        |                                                                         |
| =======================================                                                                                                                                                          | SECTION II                                                                                                 | - COMPONENTS                                                                                 |                                                                         |
| hazardous components                                                                                                                                                                             |                                                                                                            |                                                                                              | CAS #                                                                   |
| None,                                                                                                                                                                                            | N/A                                                                                                        | N/A                                                                                          | N/A                                                                     |
|                                                                                                                                                                                                  |                                                                                                            |                                                                                              | =======================================                                 |
| BOILING Point(F) FREEZING POINT (F) VOLATILITY/VOL(%) MELTING POINT VAPOR PRESSURE (mm Hg) VAPOR DENSITY (Air=1) SOLUBILITY IN H20 APPEARANCE/ODOR SPECIFIC GRAVITY (H2O=1). EVAPORATION RATE PH | >212°F (100°C) Less than 0°F N/A Information r Information r Completely so Colorless to 1.06 Information r | c)<br>not available<br>not available<br>not available<br>pluble in water<br>pale yellow, ami |                                                                         |
| SECTION                                                                                                                                                                                          |                                                                                                            | ND EXPLOSION HAZA                                                                            | ARD DATA                                                                |
| FLASH POINT                                                                                                                                                                                      | >200°F (93°C) N/A N/A In case of fi chemical or C Full protecti approved posi apparatus sho                | ire use water spr<br>CO <sub>2</sub> (carbon dioxi<br>ve equipment inc<br>tive pressure se   | de). cluding NIOSH/MSHA clf-contained breathing ll protective equipment |

CLAYTROL-TCS(TM)

# SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... None currently established

OVER EXPOSURE EFFECTS.... None known

FIRST AID PROCEDURES.... EYES: Flush eyes with copious quantities of water for a minimum of fifteen minutes. Use fingers to

ensure that eyelids are separated and that eye is being irrigated. If irritation persists consult a

physician.

SKIN: Wash thoroughly with soap and water. INHALATION: Remove from source of exposure.

# SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Stable

CONDITIONS TO AVOID..... None known COMPATIBLE MATERIALS... None known

 ${\tt DLCOMPOSITION\ PRODUCTS...\ Combustion\ may\ produce\ carbon\ monoxide\ and\ carbon}$ 

dioxide.

HAZARDOUS POLYMERIZATION. Will not occur.

POLYMERIZATION AVOID.... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL ...... If material spill occurs, absorbent materials should be used to prevent runoff from entering drains,

sewers or streams. Waste residue should be collected and placed in a closed container for waste disposal.

WASTE DISPOSAL METHOD.... Dispose of any residues or wastes according to

prescribed statutes, regulations and guidelines, e.g., secured chemical landfill, approved chemical

wastes incineration or approved (low level) discharges to minicipal or on-site wastewater

treatment facilities.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... OSHA and ACGIH have not established specific exposure

limits.

. NTILATION..... Local exhaust ventilation and/or process containment may be used to minimize worker exposure to organic

vapors that may be given off.

PROTECTIVE GLOVES..... None normally required.

EYE PROTECTION..... Safety glasses and/or chemical safety goggles should

be worn. The choice of protection should be

appropriate to the task being performed.

## CLAYTROL-TCS(TM)

|                      | Washing facilities should be available. Wash thoroughly after handling.              |
|----------------------|--------------------------------------------------------------------------------------|
| HANDLING AND STORAGE | Containers need no special warning labels in addition to the product identity label. |
| SEC                  | TION IX - SPECIAL PRECAUTIONS                                                        |

HAZARD CLASS..... None

DOT SHIPPING NAME..... Not Regulated

REPORTABLE QUANTITY (RQ). N/A UN NUMBER...... N/A NA #..... N/A

PACKAGING SIZE..... 55 gallons

FOOT NOTES Sara Title III (Superfund Amendments & Reauthorization Act of 1986) - Sections 302, 311, 312 and 313:

ection 302 - Extremely Hazardous Substances (40CFR355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

Sections 311 & 312 - Material Safety Data Sheet Requirements (40CFR370): Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

- \_n/a\_ Immediate (acute) health hazard
- \_n/a\_ Delayed (chronic) health hazard
- \_n/a\_ Fire hazard
- \_n/a\_ Sudden release of pressure hazard
- \_n/a\_ Reactive hazard

Under Section 311, submittal of MSDS's or a list of product names to the local emergency planning commission, state emergency response commission & local fire department is required after October 17, 1989 for all hazardous substances.

Section 313 - List of Toxic Chemicals (40CFR372): This product contains the following ingredients, (with CAS# and % range) which appears on the List of Toxic Chemicals: None.

# REFERENCES

CLAYTROL-TCS(TM)

# DISCLAIMER OF LIABILITY

Frac Tech warrants only title to the goods sold. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE GOODS SOLD, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF UTILITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Frac Tech does not warrant: 1) that the goods sold or the use made thereof by the buyer will not infringe any intellectual property rights, including but not limited to, patents of any third party, and 2) that use of goods sold will not damage any subterranean formation which comes into contact with goods.

CONTAINS PETROLEUM DISTILLATES

# CAUTION!

COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF INHALFD MAY BE HARMFUL IF SWALLOWED. MAY CAUSE DIZZINESS AND DROWSINESS ASPIRATION MAY CAUSE LUNG DAMAGE.

> BEFORE USING THIS PRODUCT, READ THE MATERIAL SAFETY DATA SHEET

KEEP AWAY FROM HEAT AND FLAME AVOID CONTACT WITH EYES. SKIN AND CLOTHING KEEP CONTAINER CLOSED USE WITH ADEQUATE VENTILATION WASH THOROUGHLY AFTER HANDLING DO NOT TRANSFER TO UNLABELED CONTAINERS

# FIRST AID:

IN CASE OF CONTACT FOR EYES, IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES CALL A PHYSICIAN FOR SKIN, FLUSH WITH WA-WASH CLOTHING BEFORE REUSE

IF INHALED, REMOVE TO FRESH AIR IF NOT BREATHING. GIVE AR-TIFICIAL RESPIRATION | IF BREATHING IS DIFFICULT, GIVE DXY-GEN CALL A PHYSICIAN

IF SWALLOWED CALL A PHYSICIAN IMMEDIATELY NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON

# IN CASE OF FIRE:

USE FOAM. CARBON DIOXIDE. DRY CHEMICAL, OR WATER FOG OR SPRAY.

# SPILLS OR LEAKS: FOR INDUSTRIAL USE ONLY

SMALL SPILL - SOAK UP WITH ABSORBENT MAT-ERIAL AND SCOOP INTO DRUMS.

LARGE SPILL — DIKE AND PUMP INTO DRUMS, PRE-CHEMCENTRAL VENT MATERIAL FROM ENTERING DRAINS, SEWERS, OR WATERWAYS.

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

FOR HELP IN A CHEMICAL EMERGENCY, CALL CHEMTREC - (800) 424-9300.

105 PRONTO ODESSA, IX. 79760 915-367-6087



# DANGER

AFTER THIS CONTAINER HAS BEEN EMPTIED IT MAY CONTAIN EXPLOSIVE AND HARMFUL VAPORS AND RESIDUE. KEEP AWAY FROM HEAT. SPARKS, AND FLAMES! DO NOT CUT, PUNCTURE. OR WELD ON OR NEAR THIS CONTAINER. DO NOT RE-USE CONTAINER FOR ANY PURPOSE UNTIL

COMMERCIALLY CLEANED.



NAVA REFINING COMPANY P. O. BOX 159 ARTESIA, NM 88211-0159

(505) 748-3311, (505) 365-8364, (505) 365-8365 (24 Hours)

# MATERIAL SAFETY DATA SHEET

### EMERGENCY PHONE NUMBERS:

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information)
NEW MEXICO POISON INFORMATION CENTER: 1-800-432-6866 (for poisoning)
TEXAS (EL PASO) POISON INFORMATION CENTER: (915) 533-1244 (for poisoning)
ARIZONA POISON INFORMATION CENTER: 1-800-362-0101 or (602) 253-3334 (for poisoning)

# **KEROSENE**

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: KEROSENE FORMULA: C<sub>9</sub>H<sub>20</sub> to C<sub>16</sub>H<sub>34</sub>

CAS NUMBER: 8008-20-6
CHEMICAL FAMILY: Petroleum
Hydrocarbon

kerosine

SYNONYMS: Fuel oil #1, coal oil, range oil, kerosine

UN 1223



NFPA 704 SYMBOL

# SECTION 2 - HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENTS  | CAS NO.   | VOL% | TLV    | STEL   | PEL (OSHA) | IDLH    |
|-----------------------|-----------|------|--------|--------|------------|---------|
| KEROSENE (containing) | 8008-20-6 | >95  | NA     | NA     | NA:        | NА      |
| Napthalene            | 91-20-3   | 1    | 10 ppm | 15 ppm | 10 ppm     | 500 pp: |

# SECTION 3 - PHYSICAL DATA

BOILING POINT: 300-575°F

VAPOR PRESSURE: @100°F 5 mm Hg

VAPOR DENSITY (AIR=1): 4.5

SOLUBILITY IN WATER: Insoluble

ODOR THRESHOLD: 1.0 ppm

SPECIFIC GRAVITY (WATER=1): 0.8

\* VOLATILE BY VOLUME: N.A.

EVAPORATION RATE: No data available

AUTOIGNITION TEMP: 444°F

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: CLASS II, COMBUSTIBLE LIQUID

FLASH POINT: 110-165°F (TOC)

FLAMMABLE LIMITS: LEL = 0.7% UEL = 5.0%

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, Halon

SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area if possible. Use water

to keep fire exposed containers cool. Use foam for spill control.

APPEARANCE AND ODOR: Clear to yellow liquid with characteristic hydrocarbon smell

UNUSUAL FIRE AND EXPLOSION HAZARDS: Evacuate a radius of 1500 feet for uncontrolled fires. Vapors are heavier than air and may travel great distances and flash back. Extinguish only if flow can be stopped.

NFPA FIRE = 2 (moderate)

### KEROSENE

# SECTION 5 - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID/INCOMPATABILITY: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

NFPA REACTIVITY = 0 (minimal)

## SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, ingestion, skin contact.

HEALTH HAZARDS: Chronic toxicity, possible cancer, irritation to eyes, skin and mucous membranes, pulmonary edema, bronchial pneumonia, asphyxiation, liver and kidney damage, anemia or myocardial damage.

CARCINOGENICITY: Product is not listed by NTP or IARC.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of eyes, skin and mucous membranes, dizziness, headaches, respiratory arrest, coughing, irregular heartbeat, mental confusion, vomiting, blurred vision, flushing of face, slurred speech, difficulty in swallowing, weakness, pain in limbs, coma and convulsions. Also, insomnia, toxicity, psychosis, tremors, exaggerated tendon reflexes

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: DO NOT induce vomiting. Immediately seek medical attention. Give water to dilute, if conscious.

INHALATION: Maintain respirations, assist with artificial respiration if needed and give oxygen if available and trained to do so. Seek medical attention. If liquid is in lungs (aspirated) seek medical care.

EYES: Flush eyes with water for at least 15 minutes. Seek medical attention.

SKIN: Remove kerosene soaked clothing. Wash skin with soap and water. If irritation persists seek medical attention.

NFPA HEALTH = 0 (minimal)

# SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

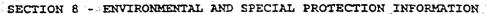
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Contain spill. Use water fog to suppress vapor cloud. Use SCBA to avoid breathing vapors. Absorb liquid with sand or clay.

WASTE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any water course.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: All equipment and storage containers should be properly grounded. This material is subject to OSHA and DOT regulations. Portable metal containers should be bonded to the storage container before transferring liquid.

OTHER PRECAUTIONS: Avoid breathing vapors. Extremely flammable. Do not weld on containers unless properly cleaned and purged using safe work procedures.

### KEROSENE



RESPIRATORY PROTECTION: Use NIOSH\MSHA approved respiratory protection in areas exceeding exposure limits, the type to be determined by the degree of exposure.

VENTILATION: Use in well ventilated area. Mechanical exhaust should be explosion proof

EYE/SKIN PROTECTION: Rubber gloves, face shields, goggles or safety glasses with side shields, coveralls.

WORK/HYGIENIC PRACTICES: Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.

NOTICE: This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 27 FOR ADDITIONAL EMERGENCY INFORMATION.

This information is believed to be accurate and as reliable as information available to us. We make no warranty or guarantee as to its accuracy and assume no liability from its use. Users should determine the suitability of the information for their particular purposes.

PAGE 3

DATE PREPARED: 02/20/95

ISSUE NO. 7



Page 1

BASF CORPORATION 100 CHERRY HILL RD.

PARSIPPANY, NJ 07054 (201) 316-3000

Original Date:

10/15/1991

**Revision Date:** 

03/31/1992

Emergency Telephone: (800) 424-9300 (CHEMTREC)

(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

# SECTION 1 - PRODUCT INFORMATION

Product ID: NVS 583870

NAPA ANTIFREEZE

Common Chemical Name:

INHIBITED ETHYLENE GLYCOL

Synonyms: ANTIFREEZE

Molecular Formula:

MIXTURE

Molecular Wt.: NOT APPLICABLE

Chemical Family: Glycol

# SECTION 2 - INGREDIENTS

| Chemical Name:                                                                                                                                                                                                       | mical Name: CAS #: Amount: PEL/TLV I  |                               | PEL/TLV Data:                                | Data: |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------|----------------------------------------------|-------|--|
| ETHYLENE GLYCOL HO                                                                                                                                                                                                   | 107-21-1<br>111-46-6                  | 85.0 - 95.0 %<br>0.0 - 10.0 % | OSHA CEIL 50 PPM<br>FINAL<br>NOT ESTABLISHED |       |  |
| I - Denotes an IARC listed carcinogen N - Denotes an NTP listed carcinogen O - Denotes an OSHA carcinogen H - Denotes an OSHA health hazard P - Denotes an OSHA physical hazard C - Denotes a CERCLA listed chemical | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 19                            |                                              |       |  |
| 66X see section 10A for SARA-313 list                                                                                                                                                                                |                                       |                               | •                                            |       |  |

100 Cherry Hill Road, Parsippany, New Jersey 07054 (201) 316-3000

ale3

NAPA ANTIFREEZE

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# SECTION 3 - PHYSICAL PROPERTIES

Colora

Green

Form/Appearance:

Liquid

Odor:

pH:

Glycol

Odor Intensity:

Faint

Typical

Low-RANGE-High U. O. M.

Spc. Gravity:

1.135

SU 11

@ Pressure

Boiling Pt:

Typical 330

Low-RANGE-High Deg.

F

760 MM HG

Freezing Pt:

NOT AVAILABLE

Decomp. Tmp:

NOT AVAILABLE

Solubility in Water Description: Infinite

Vapor Pressure:

18

MM HG

6

20

DEG. C

# SECTION 4 - FIRE AND EXPLOSION DATA

Typical

Low-RANGE-High Deg.

Method

Flash Point: Autoignition: 250 775

CLEVELAND OPEN CUP

NONE SPECIFIED

## Extinguishing Media:

Water fog, alcohol foam, CO2 or dry chemical extinguishing media.

## Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Avoid breathing vapors or fumes of heated product or burning product.

# Unusual Hazards:

Vapors from heated (above flashpoint) of product may travel to a source of ignition and flash back.



NAPA ANTIFREEZE

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# SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gasses include inhalation and eye and skin contact.

# Acute Overexposure Effects:

Contact with the eyes and skin may result in irritation.
Acute overexposure to diethylene glycol and ethylene glycol can cause severe abdominal distress, CNS depression, possibly respiratory and/or kidney failure.

# Chronic Overexposure Effects:

Chronic overexposure to diethylene glycol and ethylene glycol can cause liver and kidney damage. Animal studies indicate that ethylene glycol may be embryotoxic and teratogenic by the oral and inhalation routes.

# First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

# First Aid Procedures - Eyes:

Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.

## First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

### First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

## First Aid Procedures - Notes to Physicians:

Administration of ethanol may counteract the effects of ethylene glycol, such as metabolic acidosis and renal damage.

## First Aid Procedures - Aggravated Medical Conditions:

Individuals with preexisting diseases of the skin, respiratory disorders, or impaired function of the liver/kidneys may have

# BASF

Product ID: NVS 583870

NAPA ANTIFREEZE

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# SECTION 5 - HEALTH EFFECTS (Cont.)

increased susceptibility to excessive exposures.

First Aid Procedures - Special Precautions: None

# SECTION 6 - REACTIVITY DATA

Reactivity - Stability Data:

Stable

Reactivity - Incompatability:

No data available.

Reactivity - Conditions/Hazards to Avoid:

No data available.

Reactivity - Hazardous Decomposition/Polymerization:

Hazardous Decomposition Products: No Data Available.

Polymerization: Does not occur.

Reactivity - Corrosive Properties:

Not corrosive.

Reactivity - Oxidizer Properties:

Not an oxidizer

# SECTION 7 - PERSONAL PROTECTION

Personal Protection - Clothing:

Gloves, coveralls, apron, boots as necessary to minimize contact.

Personal Protection - Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists.

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VIII TONE PER CONTROL A POT TONE POR A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A MARCHINE A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A PER A

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NAPA ANTIFREEZE

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# SECTION 7 - PERSONAL PROTECTION (Cont.)

# Personal Protection - Respiration:

If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator.

Personal Protection - Ventilation:

Use local exhaust to control to recommended P.E.L.

Personal Protection - Explosion Proofing:

None required.

# SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

# Spill/Leak Procedures - General:

Spills should be contained, solidified and placed in suitable containers for disposal in a licensed facility. This material is regulated by CERCLA ("Superfund").

This material is a CERCLA hazardous substance (ethylene glycol having an RQ of 1 lb). Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush area with water.

## Spill/Leak Procedures - Waste Disposal:

Incinerate or bury in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

# Spill/Leak Procedures - Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

# SECTION 9 - STORAGE AND HANDLING

# Storage and Handling - General:

No special requirements needed.

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# SECTION 10A - FEDERAL REGULATORY INFORMATION

TSCA Inventory Status Listed on Inventory:

YES

RCRA Haz. Waste No.:

CERCLA: YES Reportable Qty.: (If YES) 1

LB

SECTION 10B - STATE REGULATORY INFORMATION

State Regulatory Information: (By Component) NJ/PA/MA RTK

107-21-1 NAME: ETHYLENE GLYCOL

YES

YES

111-46-6 CAS #:

NAME: DIETHYLENE GLYCOL

CAS #: 7758-11-4

NO

NAME: PHOSPHORIC ACID, DIPOTASS

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# SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

NONE

DOT Technical Name:

NONE

DOT Primary Hazard Class:

DOT Secondary Hazard Class:

NONE

DOT Label Required:

NONE

DOT Placard Required:

DOT Poison Constituent:

NONE

BASF commodity Codes: 332 UN/NA Code: N/A E/R Guide: N/A

Bill of Lading Description:

ANTIFREEZE PREPARATIONS, PROPRIETARY, ETHYLENE GLYCOL BASE

:ATA:

CLASS: NONE

P. G. N/A

SHIPPING NAME:

ANTIFREEZE PREPARATIONS, PROPRIETARY, ET

COL BASE

IMO:

NONE

N/A

ANTIFREEZE PREPARATIONS, PROPRIETARY, ET

COL BASE

TDG:

NONE

N/A

ANTIFREEZE PREPARATIONS, PROPRIETARY, ET

COL BASE



Product ID: NVS 583870
NAPA ANTIFREEZE

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SECTION 12 - MANUFACTURER'S INFORMATION

- is a registered trademark of BASF Corporation.
- is a trademark of BASF Corporation.

WHILE BASE CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS THE DATE HEREOF, BASE CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSINGLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR CONSIDERATION, INVESTIGATION, AND VERIFICATION.

END OF DATA SHEET





**MOTC0090** 

Revised 28-OCT-1994

Printed 16-NOV-1994

# FLEET HEAVY DUTY MOTOR OIL

# CHEMICAL PRODUCT/COMPANY IDENTIFICATION

# # Tradenames and Synonyms

**Product Codes:** 

6210/6211/6220/6230/6240/6244/

6245/6250/6260/6261/6265

Grades:

HD 10W, 20W-20, 30, 40, 50; HD Supreme 10W-30, 15W-40;

10 TBN 15W-40, 30, 40;

LP

# **Company Identification**

MANUFACTURER/DISTRIBUTOR

CONOCO INC.

P.O. BOX 2197

HOUSTON, TX 77252

# PHONE NUMBERS

Product Information

1-713-293-5550 CHEMTREC 1-800-424-9300

Transport Emergency

Medical Emergency 1-800-441-3637

# COMPOSITION/INFORMATION ON INGREDIENTS

## # Components Material

| mater tat                                | CAS RUMBET %   |
|------------------------------------------|----------------|
| May contain any combination of the follo | owing 60-90    |
| base oils:                               |                |
| Solvent Refined Dist., Hvy. Paraffinic   | 64741-88-4     |
| Solvent Refined Dist., Lt. Paraffinic    | 64741-89-5     |
| Solvent Dewaxed Dist., Hvy. Paraffinic   | 64742 - 65 - 0 |
| Hydrotreated Dist., Hvy. Paraffinic      | 64742 - 54 - 7 |
| Solvent Refined Residuum                 | 64742-01-4     |
|                                          |                |

CAS Number

(Continued)

| Solvent Dewaxed Residual Oil | 64742-62-7 |            |  |  |
|------------------------------|------------|------------|--|--|
| lydrotreated Bottoms         | 64742-57-0 | 64742-57-0 |  |  |
| e e e                        |            |            |  |  |
| Ethylene/Propylene Copolymer | 9010-79-1  | 0-20       |  |  |
| Zinc Compounds               | 68649-42-3 | 1-3        |  |  |
| Metal Sulfonates             |            | 0-11       |  |  |
| Proprietary Additives        |            | 0-25       |  |  |

# HAZARDS IDENTIFICATION

Potential Health Effects

## Substance Information

Primary Routes of Entry: Skin, inhalation

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Manufacturers have not seen allergic reactions to metal sulfonates in workers based on over 40 years of experience. Thus, metal sulfonates would not seem to be a significant health hazard.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

# "USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

## Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

(Continued)

#### FIRST AID MEASURES

#### First Aid INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### SKIN CONTACT

Wash thoroughly with soap and water after handling. If irritation develops, consult a physician.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### **INGESTION**

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

#### FIRE FIGHTING MEASURES

Flammable Properties

Flash Point Method Autoignition 170 C (338 F) (Minimum)
Pensky-Martens Closed Cup - PMCC.

650 F (343 C)

NFPA Classification

Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water may be used to flush spills away from exposures.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

#### **ACCIDENTAL RELEASE MEASURES**

Safequards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, and flame.

. Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

#### HANDLING AND STORAGE

# Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

**Handling (Physical Aspects)** 

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a well ventilated place. Store in a cool, dry place. Store away from heat, sparks and flames, oxidizers.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** 

VENTILATION

Normal shop ventilation.

Personal Protective Equipment

RESPIRATORY PROTECTION

None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

PROTECTIVE GLOVES

Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

**EYE PROTECTION** 

Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT

Coveralls with long sleeves if splashing is probable.

OTHER PRECAUTIONS

Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

(OSHA) PEL TLV (ACGIH)

5 mg/m3, 8 Hr. TWA 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3 Notice of Intended Changes (1994-1995)

5 mg/m3, 8 Hr. TWA, severely refined

AEL \* (Du Pont) 5 mg/m3, 8 Hr. TWA

#### PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

**Boiling Point** >520-1200 F (271-649 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Eyaporation Rate Nìl

Solubility in Water Insoluble

Odor Mild Petro. Hydrocarbon

Form Liquid

Color Dark Amber to Dark Brown Specific Gravity 0.873-0.896 @ 60 F (16 C)

7.27-7.47 lb/gal @ 60 F (16 C) Density

#### STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Avoid heat, sparks, and flame.

Incompatibility with Other Materials

Incompatible with strong oxidizing materials.

Decomposition

Combustion forms oxides of carbon and may produce small quantities of oxides of nitrogen, phosphorus, sulfur, and zinc.

**Polymerization** 

Polymerization will not occur.

<sup>\*</sup> AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

#### TOXICOLOGICAL INFORMATION

#### Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

Animal skin exposure studies show high concentrations of zinc organic phosphates cause testicular atrophy, but this effect appears related to stress from the chemical causing severe skin irritation. Low concentrations of the zinc component, as occurs in lubricant products, would not have caused testicular damage.

"USED" Motor Oil -Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

#### **ECOLOGICAL INFORMATION**

#### Ecotoxicological Information

No specific aquatic data available for this product.

#### **DISPOSAL CONSIDERATIONS**

#### Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

#### Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

#### TRANSPORTATION INFORMATION

#### Shipping Information

DOT

Not regulated.

ICAO/IMO

Not restricted.

#### REGULATORY INFORMATION

#### U.S. Federal Regulations

OSHA HAZARD DETERMINATION

Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA/SUPERFUND** 

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

This material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements:

Toxic Chemical(s)

Zinc Compound

#### TSCA

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

#### RCRA

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

#### CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s)
Reportable Quantity

Petroleum Hydrocarbons

Film or sheen upon, or discoloration of,

water surface

#### REGULATORY INFORMATION(Continued)

#### State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT This material may contain the following ingredient(s) subject to the Pennsylvania and Community Right to Know Hazardous Substances List.

Ingredient Category Zinc Compounds

Environmental Hazard

Canadian Regulations

This is not a WHMIS Controlled Product.

#### OTHER INFORMATION

#### NFPA, NPCA-HMIS

NFPA Rating
Health 0
Flammability 1
Reactivity 0

NPCA-HMIS Rating
Health 1
Flammability 1
Reactivity 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS

Address

MSDS Administrator

Conoco Inc. PO Box 2197

Houston, TX 77252

Telephone

713/293-5550

# Indicates updated section.

End of MSDS

MOTC0090

## MATERIAL SAFETY DATA SHEET



Diamond Shamrock Refining and Marketing Company

M7751

MSDS DATE:

06-23-87

MSDS NUMBER:

PRODUCT NAME: #2 DIESEL FUEL

24 HOUR EMERGENCY PHONE: (512) 641-8800

#### I. PRODUCT IDENTIFICATION

2 FLAMMABILITY, 0 REACTIVITY & (Blank) INSTABILITY based on 2 HEALTH, 2 "Standard "Standard System for the Identific Materials, NFPA No. 704, 1985 Edition Identification of the

MANUFACTURER'S NAME AND ADDRESS: Diamond Shamrock Refining and Marketing Company, P.O. Box 696000, San Antonio, Texas 78269-6000

CHEMICAL NAME:

Light hydrocarbon distillates

CAS NUMBER:

68476-34-6

SYNONYMS/COMMON NAMES:

CHEMICAL FORMULA: C5-C16 Hydrocarbons

DOT PROPER SHIPPING NAME: Diesel Fuel

DOT HAZARD CLASS:

Combustible Liquid

DOT I.D. NUMBER:

NA 1993

HAZARDOUS SUBSTANCE:

NA

100

#### II. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT Light hydrocarbon Blend

HAZARD DATA PEL = None established TLV = None established

(See Section V)

CAS NUMBER 8008-20-6

64741-44-2

64741-59-9

NIOSH has proposed 100mg/m $^3$  8hr TWA or ~14ppm 8hr TWA based on an average molecular weight of 170 for kerosene like fractions. The materials in this product are listed in the TSCA Inventory. Not listed as carcinogenic by IARC, NTP, OSHA, ACGIH.

#### III. PHYSICAL DATA

BOILING POINT @ 760 mm Hg: 340-670°F

VAPOR DENSITY (A1c=1): N/A

EVAPORATION RATE (Buac=1): N/A

MELTING POINT: NA

BULK DENSITY AT 20°C: 7.07 lbs/gal

% VOLATILES BY VOL.: 100

SOLUBILITY IN H20 % BY WT: Trace

SPECIFIC GRAVITY  $(H_2O=1)$  0.85 API Gravity = 35.0

APPEARANCE AND ODOR: Colorless liquid with aromatic odor; odor threshold ~1ppm and is not an index of exposure

pH: NA

Physical data may vary slightly to meet specifications.

CAS = Chemical Abstract Service Number PEL - OSHA Permissible Exposure Limit

N/A = No relevant information found or not available NA = Not applicable

TLV - TLV+, ACGIH Threshold Limit Value, Current

This Material Safety Data Sheet was prepared by Diamond Shamrock Relining and Marketing Company on behalf of the above manufacturer in accordance will 29 CFR 1910 1200. All information, recommendations and suggestions appearing herein concerning this product are based upon tests and data believed to be reliable, however, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee expressed or implied is made by Diamond Shamrock as to the effects of such use the results to be obtained or the safety and toxicity of the product nor does Diamond Shamrock assume any liability arising out of use by others of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular of exceptional conditions or circumstances exist or because of applicable laws or government regulations



#### IV. FIRE AND EXPLOSION DATA

150°F AUTOIGNITION TEMPERATURE: FLASH POINT: FLAMMABLE LIMITS IN AIR, % BY VOLUME- UPPER: 5 LOWER: EXTINGUISHING MEDIA: Dry chemical, foam or carbon dioxide or water

SPECIAL FIRE FIGHTING PROCEDURES: Pressure-demand, self-contained breathing apparatus should be provided for fire fighters in buildings or confined areas where product is stored.

UNUSUAL FIRE AND EXPLOSION HAZARD: Clothing, rags, or similar brganic material contaminated with the product and stored in a closed space may undergo spontaneous combustion. Transfer product to and from commonly grounded containers.

#### V. HEALTH HAZARD INFORMATION

HEALTH HAZARD DATA: The major effect of exposure to this product is central nervous system depression.
MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: Conditions which have the same symptoms or effects as stated below.

MEDICAL LIMITATION: N/A

- ROUTES OF EXPOSURE

  INHALATION: Irritation of the upper respiratory tract with central nervous system stimulation possibly followed by depression, dizziness, headache, incoordination, anesthesia, coma and respiratory arrest.
- IN CONTACT: Defatting may occur with continued or prolonged contact. Irritation and burning sensation may occur on exposure to SKIN CONTACT: liquid vapor phase.
- SKIN ABSORPTION: Not significant.
- EYE CONTACT: Severe burning sensation with temporary irritation and swelling of lids.
- INGESTION: Irritation of mucous membranes of throat, esophagus and stomach which may result in nausea and vomiting; depression may occur if absorbed. (See Inhalation above.)

EFFECTS OF OVEREXPOSURE

- ACUTE: Central nervous system depression with extreme overexposure; effects may include anesthesia, coma, respiratory arrest, and irregular heart rate. Oxygen deprivation is possible if working in confined spaces.
- RONIC. Experience has shown no major cumulative or latent effects to have resulted from exposure to this product. (See Health Hazard Data above.)

- EMERGENCY AND FIRST AID PROCEDURES

  EYES: Object is to flush material out then seek medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire eye surface. Seek medical attention.
- (IN: Wash contaminated areas with plenty of soap and water. A soothing ointment may be applied to irritated skin after thorough cleansing. Remove contaminated clothing and footwear. medical attention if symptoms result.
- INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. SEEK MEDICAL ATTENTION IMMEDIATELY.
- IGESTION: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. SEEK MEDICAL ATTENTION INGESTION: IMMEDIATELY.
- NOTES TO PHYSICIAN: Gastric lavage only if large quantity has been ingested. Guard against aspiration into lungs which may result in chemical Pneumonitis. Irregular heart beat may occur; use of Adrenalin is not advisable. Treat symptomatically.

PRODUCT NAME:

#2 DIESEL FUEL



#### VI. REACTIVITY DATA

CONTRIBUTING TO INSTABILITY: Under normal conditions, the is stable. Avoid sources of ignition such as flames, hot electrical or functional sparks, etc. CONDITIONS CONTRIBUTING TO INSTABILITY: material is stable. surfaces

INCOMPATIBILITY: Avoid contact with strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include carbon monoxide, carbon dioxide and other hydrocarbons. CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

#### VII. ENVIRONMENTAL PROCEDURES

PILLS OR RELEASES: If material is spilled or released to the atmosphere, steps should be taken to contain liquids and prevent SPILLS OR RELEASES: discharges to streams or sewer systems; and control or stop the loss of volatile materials to the atmosphere. Spills or releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

SPOSAL: Clean-up action should be carefully planned and executed.

Shipment, storage, and/or disposal of waste materials are regulated and action to handle or dispose of spilled or released materials must meet all applicable local, state and federal rules and regulations. If any question exists, the appropriate agencies should be contacted to assure proper action being taken. Waste product and contaminated material will be considered a hazardous waste if the flash point is less than 140°F requiring disposal at appropriate master facility.

an approved hazardous waste facility. ORAGE: Protect against physical damage. Outside or storage is preferred. Separate from oxidizing materials. Store in cool, well ventilated area of non-combustible construction away from possible sources of ignition.

#### VIII. INDUSTRIAL HYGIENE CONTROL MEASURES

VENTILATION REQUIREMENTS: Work in well ventilated areas. Special ventilation is not required under normal use. Good engineering controls in high volume uses is required in some localities.

#### SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY: Respiratory protection is not required under normal use. Use NIOSH/MSHA approved respiratory protection following manufacturer's recommendation where spray, mist, or vapor may be generated. Supplied air respiratory protection is required for IDLH areas.

Face shield and goggles or chemical goggles should be worn where mist or spray may be generated.

GLOVES: Impervious gloves should be worn during routine handling of this product.

work OTHER CLOTHING AND EQUIPMENT: Standard clothing. contaminated with this product that can not be decontaminated should be discarded. Clothing contaminated with this product should be removed, washed in soap and water and dried before reuse. Contaminated clothing should be stored in well ventilated areas. Shower and eyewash facilities should be accessible.

MONITORING EXPOSURE

BIOLOGICAL: applicable procedure; breath for analysis hydrocarbons has been suggested.

PERSONAL/AREA: Based on similarity to Kerosene, both active and passive monitors employing charcoal absorption followed by gas chromatography. An average molecular weight of 170 has been suggested as the average value to convert the determined weight of hydrocarbons to ppm. Direct reading indicating tubes are available to evaluate short term exposure.



## **Material Safety Data Sheet**

HD-5 PROPANE FUEL (ODORIZED)

CPS262200

Page 1 of 8

This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS.

This is a new Material Safety Data Sheet.

#### 1. PRODUCT IDENTIFICATION

#### HD-5 PROPANE FUEL (ODORIZED)

- DANGER! EXTREMELY FLAMMABLE
  - LIQUID CAN CAUSE EYE AND SKIN INJURY
  - MAY EXCLUDE OXYGEN AVAILABLE FOR BREATHING
  - DETECTION OF LEAK VIA SENSE OF SMELL MAY NOT BE POSSIBLE IF ODORANT HAS DEGRADED. SEE SECTION 6.
  - CONTENTS UNDER PRESSURE
  - KEEP OUT OF REACH OF CHILDREN

PRODUCT NUMBER(S): CPS262200 WPS-300 PRODUCT INFORMATION: (918)560-4134

Revision Number: 0

Revision Date: 04/28/92

MSDS Number: 004919

NDA - No Data Available

NA - Not Applicable

#### 2. FIRST AID-EMERGENCY PH. (800)457-2022/(510)233-3737 (24 HR)

#### EYE CONTACT:

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. See a doctor for further treatment as soon as possible.

#### SKIN CONTACT:

Skin contact with the liquid may result in frostbite and burns. Soak contact area in tepid water to alleviate the immediate effects and get medical attention.

#### INHALATION:

If any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

#### INGESTION:

Not expected to be an ingestion problem, no first aid procedures are required.

#### 3. IMMEDIATE HEALTH EFFECTS - (ALSO SEE SECTIONS 11 & 12)

#### EYE CONTACT:

The gas phase is not expected to cause eye irritation. However, the liquid can cause frostbite and burns. This hazard evaluation is based on the data from similar materials.

#### SKIN IRRITATION:

The gas is not irritating to the skin. However, skin contact with liquid or solid can cause severe frostbite or burns. This hazard evaluation is based on data from similar materials.

#### DERMAL TOXICITY:

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. This hazard evaluation is based on data from similar materials.

#### RESPIRATORY/INHALATION:

This material can act as a simple asphyxiant by\_displacement of air. Signs and symptoms of the resultant central nervous system effects may include rapid breathing, incoordination, rapid fatigue, excessive salivation, disorientation, headache, nausea and vomiting. Convulsions, loss of consciousness, coma and/or death may occur if exposure to his concentrations continues. Read the Additional Health Data section (12) of this document for more information.

#### INGESTION:

Material is a gas and cannot usually be swallowed.

#### 4. PROTECTIVE EQUIPMENT

#### EYE PROTECTION:

Appropriate eye protection must be worn when working with this material or serious harm can result. Wear chemical goggles or a face shield at all

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times.

#### SKIN PROTECTION:

Do not get on skin or on clothing. Wear protective clothing including gloves when handling.

#### RESPIRATORY PROTECTION:

No special respiratory protection is normally required.

#### VENTILATION:

Use this material only in well ventilated areas.

#### 5. FIRE PROTECTION

FLASH POINT: (CC) <94F (70C) AUTOIGNITION: 450C (842F)

FLAMMABILITY LIMITS (% by volume in air): Lower: 2.1 Upper: 9.5

EXTINGUISHING MEDIA:

Stop flow of gas. CO2 for small fires. Water fog.

NFPA RATINGS: Health 1; Flammability 4; Reactivity 0; Special NDA; (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association or, if applicable, the National Paint and Coating Association, and do not necessarily reflect the hazard evaluation of the Chevron Environmental Health Center. Read the entire document and label before using this product.

#### FIRE FIGHTING PROCEDURES:

This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire document. Petroleum gases are heavier than air and travel along the ground or into drains to possible distant ignition sources, causing an explosive flashback.

#### COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

#### 6. STORAGE, HANDLING, AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

INCOMPATIBILITY:

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May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

#### SPECIAL PRECAUTIONS:

DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Keep container closed. Before entry into confined spaces that may have contained hazardous material, determine concentrations and take appropriate measures for personal protection. Material presents a hazard that may require personal protective equipment for entry. CONTAINER UNDER PRESSURE. Store away from strong oxidizing materials. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate, or store above 120 F.

Special precautions should be taken when entering or handling equipment in this type of gas service because of possible radioactive contamination. All equipment should be checked for radioactivity or opened to the atmosphere and have forced ventilation applied for at least four hours prior to entry or handling. Avoid direct skin contact with any surface. Avoid generation of dust, smoke, fumes, etc. in the work area, or if they cannot be avoided, a tested and certified radionuclide dust respirator should be worn. Smoking, eating, or drinking, should be prohibited when working with the equipment. Employees should wash thoroughly with soap and water and discard contaminated clothing after entering or handling the equipment.

This product has been odorized in order to aid in its detection in case of a leak or accidental discharge. During shipping or storage of an odorized material, alteration of the odorant and subsequent reduction in its effectiveness may occur.

Odorants are reactive. Rust and scale in storage containers and pipes may significantly reduce an odorant's effectiveness. For this reason, storage containers must be free of rust and scale. Whenever an empty cylinder is filled, it must be properly purged and conditioned to remove air and water and to deactivate sites for oxidation of the odorant. Underground pipelines should also be checked periodically for leaks.

Prolonged exposure to an odorant or other strong smells in the environment may reduce an individual's ability to detect the odorant. People with an impaired ability to detect odors due to colds, allergies, smoking, injuries, etc., must be especially cautious.

#### 7. PHYSICAL PROPERTIES

SOLUBILITY: Soluble in alcohol, ether and hydrocarbons; insoluble

in water.

APPEARANCE: Colorless gas or liquid with distinct odor of

commercial natural gas.

BOILING POINT: -44F (-42C)

MELTING POINT: NA EVAPORATION: NDA

SPECIFIC GRAVITY: 0.5 @ 15.6/15.6C. VAPOR PRESSURE: 208 PSI @ 37.8C (Max.).

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PERCENT VOLATILE (VOLUME %): 100%

VAPOR DENSITY (AIR=1): 1.6

#### \_8 \_ ENVIRONMENTAL - CONCERNS , -SPILL RESPONSE -AND DISPOSAL ---

CHEMTREC EMERGENCY PH. (800)424-9300/(202)483-7616 (24 hr) SPILL/LEAK PRECAUTIONS:

Eliminate all sources of ignition in vicinity of spill or released vapor.

If this material is released into a work area, evacuate the area immediately. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions in the Protective Equipment section.

DISPOSAL METHODS:

Allow to evaporate with adequate ventilation.

#### 9. EXPOSURE STANDARDS, REGULATORY LIMITS AND COMPOSITION

#### COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory. This material is classified as a simple asphyxiant. When working with this material, the minimal oxygen content should be 18 percent by volume under normal atmospheric pressure.

The percent compositions are given to allow for the various ranges of the components present in the whole product and may not equal 100%.

#### PERCENT/CAS# COMPONENT/REGULATORY LIMITS

100.0 % HD-5 PROPANE FUEL (ODORIZED)

#### CONTAINING

> 90.0 % PROPANE

CAS74986 Asphyxiant ACGIH TLV

1000ppm OSHA TWA

< 10.0 % ETHANE

CAS74840 Asphyxiant ACGIH TLV

< 5.0 % PROPYLENE

CAS115071 A toxic chemical subject to the reporting requirements of

Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986 and 40 CFR Part 372.

ACGIH TLV

< 2.5 % HYDROCARBONS, C4 AND UP

CAS68476448

RADON

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#### CAS14859677

AND

#### ODORANT

TLV - Threshold Limit Value TWA - Time Weighted Average

STEL - Short-term Exposure Limit TPQ - Threshold Planning Quantity

RQ - Reportable Quantity CPS - CUSA Product Code

CC - Chevron Chemical Company CAS - Chemical Abstract Service Number

#### 10. REGULATORY INFORMATION

DOT basic descriptions can vary based on package quantity and may not coincide with international description requirements. Consult the Hazardous Materials Regulations in 49CFR and the appropriate Dangerous Goods Regulations to confirm description applicability to specific shipments.

DOT SHIPPING NAME: LIQUEFIED PETROLEUM GAS

DOT HAZARD CLASS: FLAMMABLE GAS DOT IDENTIFICATION NUMBER: UN1075

SARA 311 CATEGORIES: 1. Immediate (Acute) Health Effects; YES

2. Delayed (Chronic) Health Effects; NO

3. Fire Hazard; YES

4. Sudden Release of Pressure Hazard; YES

5. Reactivity Hazard; NO

The following components of this material are found on the regulatory lists indicated by the number below the component name:

PROPYLENE

is found on lists: 01,02,10,11,13,14,

RADON

is found on lists: 06,

**ETHANE** 

is found on lists: 02,10,11,13,14,

PROPANE

is found on lists: 02,10,11,13,14,17,

#### REGULATORY LISTS SEARCHED:

01=SARA 313 02=MASS RTK 03=NTP Carcinogen 04=CA Prop. 65 05=MI 406 06=IARC Group 1 09=SARA 302/304 07=IARC Group 2A 08=IARC Group 2B 10=PA RTK 11=NJ RTK 12=CERCLA 302.4 13=MN RTK 14=ACGIH TLV 15=ACGIH STEL 16=ACGIH Calculated TLV 17=OSHA TWA 18=OSHA STEL 19=Chevron TLV 20=EPA Carcinogen 21=TSCA Sect 4(e) 22=TSCA Sect 5(a)(e)(f) 23=TSCA Sect 6 24=TSCA Sect 12(b) 26=TSCA Sect 8(d) 25=TSCA Sect 8(a) 28=Canadian WHMIS

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#### 11. PRODUCT TOXICOLOGY DATA

#### EYE IRRITATION:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### SKIN IRRITATION:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### DERMAL TOXICITY:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### RESPIRATORY/INHALATION:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### INGESTION:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

#### 12. ADDITIONAL HEALTH DATA

#### ADDITIONAL HEALTH DATA COMMENT:

This product may contain detectable but varying quantities of the naturally occurring radioactive substance radon 222. The amount in the gas itself is not hazardous, but since radon rapidly decays (t1/2 = 3.82 days) to form other radioactive elements including lead 210, polonium 210, and bismuth 210, equipment may be radioactive. The radon daughters are solids and therefore may attach to dust particles or form films and sludges in equipment. Inhalation, ingestion or skin contact with radon daughters can lead to the deposition of radioactive material in the lungs, bone, blood forming organs, intestinal tract, kidney, and colon. Occupational exposure to radon and radon daughters has been associated with an increased risk of lung cancer in underground uranium miners. Follow the Special Precautions contained in this document.

This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.

This product contains isobutane. Isobutane has been shown to increase airway resistance by bronchioconstriction and decrease pulmonary compliance and tidal volume (difficulty in breathing). Air containing 27% isobutane was found to decrease respiratory rate and proved to be fatal to rats.

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NDA - No Data Available NA - No

NA - Not Applicable

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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## Appendix C

Spill / Leak Contingency Plans

#### EMERGENCY RESPONSE PLAN

IN THE EVENT A TOXIC SUBSTANCE RELEASE SHOULD OCCUR FROM FIRES, EXPLOSION, OR ANY UNPLANNED SUDDEN, OR NON-SUDDEN RELEASE OF A HAZARDOUS WASTE - THE RESPONSIBLE PATE TRUCKING, INC. EMPLOYEE AT THE SCENE, OR THE OPERATION, SHALL TAKE THE FOLLOWING ACTIONS:

- 1. Promptly notify his immediate supervisor or any Pate employee, of the release, it's location, and approximately magnitude. It is of the utmost importance that this first notification be given IMMEDIATELY on direction of a release so that notification of other company employees, residents of the area, and the general public may begin evacuation; If warranted under this contingency plan.
- 2. Promptly render a judgment as to:
  - A. Whether or not any human life or property is in danger.
  - B. The source and cause of the emission.
  - C. Whether or not the toxic substance release can be readily stopped or brought under control without posing a danger to the health or safety of the employee.
- 3. If any human life or property is in danger, take prompt action to alleviate such danger, to the extent possible.
- 4. If the escape can be readily stopped, or brought under control, the employee should do so.

NOTE: PATE TRUCKING, INC., DOES NOT EXPECT ANY EMPLOYER TO PLACE HIS LIFE OR HEALTH IN JEOPARDY AS RESULT OF ANY ACTION TAKEN UNDER THIS PLAN. ACTION UNDER POINTS 2, 3, AND 4, ABOVE SHOULD BE TAKEN IN CONJUNCTION WITH ANOTHER COMPANY EMPLOYEE, UNLESS IT IS CLEARLY EVIDENT THAT SUCH ACTION MAY BE UNDERTAKEN WITHOUT RISK TO THE EMPLOYEE. NO PATE EMPLOYEE SHALL ATTEMPT TO GO ON A LEAK DETECTION MISSION WITHOUT FIRST NOTIFYING HIS IMMEDIATE SUPERVISOR, OR ANOTHER COMPANY EMPLOYEE OF HIS INTENTIONS.

| I. James Master                     | , HAVE READ      | AND HAVE HAD  | THE ABOVE POLICY   |
|-------------------------------------|------------------|---------------|--------------------|
| EXPLAINED TO ME, AND THOROUGHLY UND | ERSTAND ITS APP  | LICATION AND  | PURPOSE. I FURTHER |
| UNDERSTAND THAT FAILURE TO STRICTLY | ADHERE TO THIS   | POLICY COULD  | RESULT IN SERIOUS  |
| INJURY TO MYSELF AND/OR FELLOW WORK | CERS AND WILL RE | SULT IN DISCI | PLINARY ACTIONS.   |
| James Maga                          |                  |               | 12-27-95           |
| FINDIOVER CICKLOUISE .              |                  |               | ከለጥሮ /             |

POREMAN SIGNATURE

. . .

Appendix D

Water Well Records

Section 1





#### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section          | L<br>                                         |              | (A) Own                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | er of wellF     | rancisco Narroq     | uin               | <del></del>         |
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|                  |                                               |              | City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Hobbs, TRA      | c+ 5- 311/-         | State _           | New Mexico. 8821    |
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|                  |                                               |              | (B) Drill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ing Contractor. | Lasspoole W.W.      | Serv. Lice        | ense No. WD-447     |
| 1                |                                               |              | Street an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | d NumberP       | 0. Box 52,          |                   |                     |
|                  | <del> </del>                                  |              | City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Hobbs,          | ·                   | State _           | new Mexico. 88240   |
|                  |                                               | 6            | Drilling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | was commenced   | 3-10-               |                   | 19.71               |
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| 4                | <del></del>                                   | :            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                     |                   |                     |
| 5                | -                                             |              | <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | :               |                     |                   |                     |
| <del></del>      | 1                                             |              | <del>:                                    </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>        |                     |                   |                     |
| Section          | 3                                             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RECORD OF       | CASING              |                   |                     |
| Dia              | Pounds                                        | Threa        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pottom Fee      | t Type Shoe         | From              | orations<br>  To    |
| in.              | ft.                                           | . in         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <del></del>     |                     |                   |                     |
| 6-5/8            |                                               | Weld         | ed <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100 10          | 00 None             | 80                | 100                 |
|                  | ļ- <b></b>                                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <del> </del>    |                     |                   |                     |
|                  | ļ                                             | <del> </del> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1               |                     |                   |                     |
|                  | !                                             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1               |                     |                   |                     |
| Section (        | 4                                             | i            | RECOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | D OF MUDDING    | AND CEMENTING       |                   |                     |
| Depti            | h in Feet                                     | Diame        | ter Tons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No. Sacks of    |                     | Motheda II.a.i    |                     |
| From             | То                                            | Hole in      | in. Clay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cement          |                     | Methods Used      |                     |
|                  |                                               | 811          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                     |                   |                     |
|                  |                                               | ,            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                     |                   |                     |
|                  | <u>. </u>                                     |              | · .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                     |                   |                     |
|                  | <u>;i                                    </u> |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>        |                     |                   |                     |
| Section 5        | 5                                             | :            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PLUGGING I      | ECOPD.              |                   |                     |
|                  | ,                                             |              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 110001110       |                     |                   |                     |
|                  | Plugging                                      |              | tor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                     | License N         |                     |
|                  | nd Numbe                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | City            |                     | State             |                     |
| 1 1.             | Clay used                                     |              | Tons of h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | oughage used    | Ту                  |                   |                     |
| 5.7              | method u                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | hu Ti           | 47-1                | ıgged <u> o ∩</u> |                     |
| Plugging         | approved                                      | by:          | 5 j. 1 m., 3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.0             | <del></del>         | gs were placed a  |                     |
| * / <u></u>      | <u> </u>                                      |              | Basin Sur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | omdon.          | No. Depth of P      | lug No. c         | of Sacks Used       |
| 9,01             | 10                                            | <u> </u>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                     | ro .              |                     |
| r dortan         | "FOR USE                                      | OF STAT      | e engineer o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NLX5            |                     | yisti.            |                     |
| ura<br>Kabupit G | Donat - 3                                     |              | n de la la la la la la la la la la la la la                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                     |                   |                     |
| Date 1           | Received                                      | 22.2         | र भाग हो हिन्स                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 17.01           |                     |                   |                     |
| :                |                                               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Į.              | 1                   | 1                 |                     |
| •                |                                               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>        |                     |                   | •                   |
| File No.         | 1.65                                          | 57           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Use Don         | Locatio             | n No. 12 38       | 2.15,221            |
|                  |                                               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                     |                   |                     |

## WELL RECORD

EIELD GROOG

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Street and Num City Hobby Well was drill Well was drill Street and Num City Hobby Well was drill Street and Num City Hobby Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling 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                                                                                                   | Permit No. 4-69 F. 4 of Section 1.4 F. 4 Saxtor Bex 4 | Twp./95  Twp./95  Lice  State 4  Mov. 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| City HOBB Well was drill Well was drill (B) Drilling to Street and Nun City Hob Drilling was co Drilling was co Orilling was co  State whether well is shallow or artesian  Section 2 PRINCIPA  No. Depth in Feet Thickness in From To Feet  1 45 65 20 2 90 100 100 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ded under Po<br>W 4 M f<br>Contractor<br>mber<br>bly<br>commenced<br>completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Permit No. L-69  E. 4 of Section L  Bax 4  Total c    | State 4 5'8 and Twp./95 Twp./95 State 4 State 4 State 4 State 4 State 4 State 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MM1 d is located in the Rge 38E nse No.WP/4  29 197/ 197/              |
| (B) Drilling (C) Street and Num City How Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was of Drilling was 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| (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Prilling was of Drilling was of  | Contractor mber Gl2 commenced completed vel Glasslan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | E 4 of Section 12  Bax 4  Total c                     | Twp./95  Twp./95  Lice  State 4  Mov. 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rge 38 E nse No W P / 4  27 19 7 / 19 7 /                              |
| (Plat of 640 acres)  (Plat of 640 acres)  Clevation at top of casing in feet above sea level state whether well is shallow or artesian  Section 2  No. Depth in Feet From To Feet  1 45 65 20  2 90 100 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | commenced completed comple | J & Basto Bex 4                                       | State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State | nse No W P 14<br>29 19 71<br>19 7 1                                    |
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                                                                                               | Bex 4                                                 | State 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  Drilling was control of casing in feet above sea level tate whether well is shallow or artesian  (Plat of 640 acres)  (Plat of 640 acres)  (Prilling was control of casing in feet above sea level tate whether well is shallow or artesian  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat of 640 acres)  (Plat 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# TATE ENGINEER OFFICE WELL RECORD

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| A)                              | Owner of<br>Street or               | well Bost Office Ac<br>State Hob      | obby Tov             | wnsend<br>L West I                    | alace       |                |                                                         |              | Owner's We         | il No                      |                    |
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| Vell v                          | vas drilled                         | under Permit                          | No. L-               | <del>-</del> 7357                     |             | a:             | nd is locate                                            | ed in the:   |                    |                            |                    |
|                                 |                                     | <u> </u>                              |                      |                                       |             |                | •                                                       |              | •                  |                            |                    |
|                                 | b. Tract                            | No                                    | of Map No            | o                                     | ·           | of the         |                                                         |              |                    |                            |                    |
|                                 | c. Lot No<br>Subdiv                 | o<br>vision, recorde                  | of Block No.<br>d in | Lea                                   |             | of the_<br>Cou | nty.                                                    |              |                    |                            |                    |
|                                 |                                     |                                       | •                    |                                       |             | et, N.M.       | Coordinat                                               | e System     |                    |                            |                    |
| в)                              | Drilling C                          | Contractor                            | Abbott :             | Bros.                                 |             |                |                                                         | License l    | No. WD-            | 46 .                       | <del></del>        |
| .ddre                           | ess                                 | P.O. Bo                               | x 637, I             | Hobbs, N                              | lew Me      | xico           | 882                                                     | 4 <u>0</u>   |                    |                            |                    |
| rilliı                          | ng Began .                          | 4/11/7                                | 5 Con                | npleted                               | 4/12        | <u>/75</u> τ   | ype tools.                                              | Cable        | S                  | ize of hole_               | 8 in.              |
| leva                            | tion of lar                         | nd surface or _                       |                      |                                       |             | at well is     | i                                                       | ft. Total    | depth of we        | 101                        | ft.                |
| omp                             | leted well                          | lis 🗓 s                               | hallow 🔲 .           | artesian.                             |             | De             | pth to wat                                              | er upon comp | eletion of w       | ell                        | ft.                |
|                                 | Donth                               | in Feet                               |                      | ction 2. PRIN                         | CIPAL W     | ATER-B         | BEARING :                                               | STRATA       |                    | Patient d                  | Viald              |
| · F                             | From                                | To                                    | Thicknes<br>in Feet  | is ·                                  | Description | n of Wa        | ter-Bearing                                             | Formation    | (                  | Estimated<br>gallons per r |                    |
| 4'                              | 7                                   | 101                                   | 54                   |                                       | ,           |                |                                                         |              |                    |                            |                    |
|                                 |                                     |                                       |                      | ·                                     |             |                |                                                         |              |                    |                            |                    |
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|                                 |                                     |                                       |                      | -                                     |             |                |                                                         |              |                    |                            |                    |
|                                 |                                     |                                       |                      | Section                               | on 3. REC   | ORD OF         | CASING                                                  |              |                    |                            |                    |
|                                 | ameter                              | Pounds<br>per foot                    | Threads per in.      | Depth<br>Top                          | in Feet     |                | Length<br>(feet)                                        | Type         | of Shoe            | Perfor<br>From             | ations             |
| <u>-</u>                        |                                     |                                       | P                    | 0                                     | Botto       |                |                                                         | None         |                    | 60                         | To 7.07            |
| <u> </u>                        | 5/8                                 |                                       |                      |                                       | 101         |                | 101                                                     | None         |                    | 60                         | 101                |
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|                                 | 1                                   |                                       |                      | Pion 4 RECO                           | BD OF W     | LIDDING        |                                                         | MENTING      |                    | !                          |                    |
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|                                 |                                     | · · · · · · · · · · · · · · · · · · · |                      |                                       | 1           |                |                                                         | Ceme         | nt at              | top.                       |                    |
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|                                 |                                     |                                       |                      | Section                               | on 5. PLU   | GGING 1        | RECORD                                                  |              |                    |                            |                    |
| 1100ί                           | -                                   | ctor                                  | <del></del>          | ·                                     |             |                |                                                         | <del></del>  |                    | <del></del>                |                    |
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| dd re<br>uggi                   | ng Metho                            |                                       |                      | •                                     |             |                | _ 1                                                     |              |                    |                            |                    |
| ddre<br>uggi:<br>ate V          |                                     | ed                                    |                      |                                       |             |                | 2                                                       |              |                    |                            |                    |
| ddre<br>uggi:<br>ate V          | ng Metho<br>Well Plugg              | ed                                    | State En             | gineer Repres                         | entative    |                | $-\begin{array}{ c c c c c c c c c c c c c c c c c c c$ |              |                    |                            |                    |
| ddre<br>uggi<br>ate V<br>uggi   | ng Metho<br>Well Plugg<br>ng approv | ed                                    | State En             | gineer Repres                         |             | E ENGI         | - <u>3</u>                                              | LY           |                    |                            |                    |
| ddre<br>luggi<br>ate V<br>luggi | ng Metho<br>Well Plugg              | ed                                    | State En             | Gp.Let                                | OF STAT     | E ENGI         | - <u>3</u>                                              |              | WL                 | FSL.                       |                    |

## TATE ENGINEER OFFICE WELL RECORD

FRED STOLLING

| Street or                       | f well G. I<br>Post Office Ac<br>State Hobbs | <sub>ldress</sub> <u>Star</u> | Rt. A Bo                              | x 26                 |          |                                         | Owr              | ner's well No. | 80090-1                                |
|---------------------------------|----------------------------------------------|-------------------------------|---------------------------------------|----------------------|----------|-----------------------------------------|------------------|----------------|----------------------------------------|
| ·                               | d under Permit                               |                               |                                       |                      |          | and is located                          | in the:          |                |                                        |
| ٦                               |                                              |                               |                                       |                      |          |                                         |                  | 205            | MADI                                   |
|                                 |                                              |                               |                                       |                      |          |                                         |                  |                | N.M.P.N                                |
|                                 |                                              |                               |                                       |                      |          |                                         |                  |                |                                        |
| Subdi                           | vision, recorde                              | d in                          |                                       | Lea                  | Co       | unty.                                   |                  |                |                                        |
|                                 |                                              |                               |                                       |                      |          |                                         |                  |                | Zone i                                 |
|                                 | •                                            | **                            |                                       |                      |          |                                         | 5.00             | WD-657         |                                        |
| ddress P.                       | 0. Box 232                                   | 21, Hobbs,                    | New Mex                               | ico, 88              | 240      |                                         |                  |                |                                        |
| rilling Began                   | 3/20/80                                      | Com                           | pleted _3/2                           | 20/80                | ·        | Type tools                              | rotary           | Size of        | hole 10½ in                            |
| levation of la                  | nd surface or _                              | <b>3</b> 650                  |                                       | a                    | t well i | s 3650                                  | _ ft. Total dept | h of well 1    | <u>30</u> ft                           |
| Completed wel                   | llis 🔀 si                                    | hallow 🗆 a                    | artesian.                             |                      | D        | epth to water                           | ipon completio   | n of well      | 58 fi                                  |
| <u>.</u>                        |                                              | Sec                           | tion 2. PRIN                          | CIPAL W              | TER-     | BEARING ST                              | RATA             |                |                                        |
| Depth<br>- From                 | in Feet                                      | Thickness in Feet             | 1 1                                   | Descri <u>p</u> tio  | of Wa    | ater-Bearing Fo                         | ormation         | 1 .            | nated Yield<br>s per minute)           |
| 58                              | 130                                          | 72                            | Wat                                   | er, Sar              | ıd       |                                         |                  | 25 0           | PM                                     |
|                                 |                                              |                               |                                       |                      |          |                                         |                  |                |                                        |
|                                 |                                              |                               |                                       |                      |          |                                         |                  |                |                                        |
|                                 |                                              |                               |                                       |                      |          |                                         |                  |                |                                        |
|                                 |                                              |                               | Sectio                                | n 3. RECC            | RD O     | F CASING                                |                  | <del></del>    | <u> </u>                               |
| Diameter<br>(inches)            | Pounds<br>per foot                           | Threads per in.               | Depth                                 | in Feet              |          | Length<br>(feet)                        | Type of Sh       | oe —           | Perforations                           |
| 6 5/8                           | periodi                                      | per m.                        | Тор<br>О                              | Bottor<br>130        |          | 130                                     | none             | 110            | om <u>To</u>                           |
| 0 3/0                           |                                              |                               | · · · · · · · · · · · · · · · · · · · | 130                  |          |                                         | none             | 110            | , 130                                  |
|                                 |                                              |                               | · ·                                   |                      | -        |                                         |                  |                |                                        |
|                                 | i                                            |                               |                                       |                      |          | C AND CENT                              | NITTING:         |                |                                        |
|                                 | in Feet                                      | Hole                          | Sacl                                  | s                    | Cubi     | G AND CEME                              |                  | od of Placem   | ent                                    |
| From                            | То                                           | Diameter                      | of M                                  | ud                   | of C     | ement                                   |                  |                |                                        |
|                                 |                                              | 10½                           | 1                                     | -                    |          |                                         |                  |                | ······································ |
| · ,                             |                                              |                               | ,                                     |                      | <u> </u> |                                         |                  |                | <u></u> -                              |
|                                 |                                              | -                             |                                       |                      |          |                                         |                  |                |                                        |
|                                 |                                              |                               | Sectio                                | n 5. PLUG            | GING     | RECORD                                  |                  |                |                                        |
| lugging Contra                  | actor                                        |                               | <u></u>                               |                      |          |                                         | Depth in         | Fast           | C. N. Fred                             |
| ugging Metho                    | d                                            |                               |                                       |                      |          | No                                      | Тор              | Bottom         | Cubic Feet<br>of Cement                |
| ate Well Pluge<br>ugging approv |                                              |                               | 1 2017                                | 7                    |          | $ \begin{vmatrix} 1 \\ 2 \end{vmatrix}$ |                  |                | <del></del>                            |
| e<br>Here                       | -                                            | State-Eng                     |                                       |                      |          | — <u>3</u>                              |                  |                |                                        |
|                                 |                                              |                               |                                       |                      |          |                                         |                  |                |                                        |
|                                 |                                              | .,                            | FOX HER                               | $OE_{c}CT \wedge TI$ | FINE     | INEED ONI V                             |                  |                |                                        |
| ite Received                    | May 7, 19                                    | 80                            | FOR ÜSE                               |                      |          | INEER ONLY                              |                  |                | FSL                                    |

### . Marin Small 165

| (A) Owner of<br>Street of<br>City and | of wellW<br>r Post Office A<br>l StateHob        | ddress 1             | errill<br>101 Sou<br>Mexico | th Dal<br>8824 | Pas<br>10       | et (the relief   | Ow            | ner's Well | l No                                         |                   |
|---------------------------------------|--------------------------------------------------|----------------------|-----------------------------|----------------|-----------------|------------------|---------------|------------|----------------------------------------------|-------------------|
| Well was drille                       | d under Permi                                    | t No. L-             | 7359                        |                | ar              | nd is located    | in the:       |            |                                              |                   |
| a                                     | 1/4 <u>NW</u>                                    | % <u>NW % N</u>      | <u>₩</u> ¼ of Se            | ction          | 15              | Township _       | 19S r         | Range      | 38E                                          | N.M.P.M.          |
| b. Tract                              | ! No                                             | of Map No.           |                             | 0              | f the           |                  |               |            |                                              |                   |
| c. Lot I<br>Subd                      | No<br>livision, recorde                          | of Block No. Le      | a                           | o              | f the           | nty.             |               |            |                                              |                   |
|                                       |                                                  | feet, Y=             |                             |                | et, N.M.        | Coordinate       |               |            |                                              | Zone in<br>Grant. |
| (B) Drilling                          | Contractor                                       | Abbott B             | ros.                        |                |                 |                  | License No.   | WD-        | 46                                           |                   |
| Address                               | P.O. Bo                                          | х 637, Н             | obbs, N                     | ew Mex         | ico             | 88240            | )             |            |                                              |                   |
|                                       |                                                  | Comp                 |                             |                |                 |                  |               |            |                                              |                   |
| Elevation of la                       | and surface or .                                 |                      |                             | a              | t well is_      |                  | ft. Total dep | th of well | 11                                           | 7ft,              |
| Completed we                          |                                                  | shallow 🗆 . a        |                             |                |                 |                  | upon completi |            |                                              |                   |
| Donth                                 | in Foot                                          | 1                    | tion 2. PRIN                | CIPAL WA       | TER-BI          | EARING ST        | RATA          | 1          | Datimate d                                   | Viola             |
| From                                  | in Feet<br>To                                    | Thickness<br>in Feet | 1                           | Description    | of Wate         | er-Bearing F     | ormation      |            | Estimated<br>allons per                      |                   |
| 57                                    | 117                                              | 60                   |                             |                |                 |                  |               |            |                                              | · .               |
|                                       |                                                  |                      |                             |                |                 |                  |               |            | <del></del>                                  |                   |
|                                       |                                                  |                      |                             |                |                 |                  |               |            |                                              |                   |
|                                       |                                                  |                      |                             |                |                 |                  |               |            |                                              |                   |
|                                       |                                                  |                      | Section                     | n 3. RECC      | RD OF           | CASING           |               |            |                                              | •                 |
| Diameter<br>(inches)                  | Pounds<br>per foot                               | Threads per in.      | Depth                       | in Feet        |                 | Length<br>(feet) | Type of S     | hoe        |                                              | orations          |
|                                       | periodi                                          | per m.               | Top                         | Botton         | n               | · · · · · ·      | NONE          |            | From                                         | To                |
| 6 5/8                                 | <del>                                     </del> |                      | 0                           | 117_           |                 | 117              | NONE          |            | 77_                                          | 117               |
|                                       |                                                  |                      |                             |                | -               |                  |               |            | <del>1</del>                                 |                   |
| [                                     | <u> </u>                                         |                      |                             |                |                 |                  |               | 1          | ······································       |                   |
| Depth<br>From                         | in Feet                                          | Hole<br>Diameter     | Sack<br>of Mu               | s              | Cubic<br>of Cer | Feet             |               | hod of Pl  | acement                                      |                   |
|                                       |                                                  |                      |                             |                |                 |                  | Cement        | at to      | р.                                           |                   |
|                                       |                                                  |                      |                             |                |                 |                  |               |            |                                              |                   |
|                                       |                                                  |                      |                             |                |                 |                  |               |            |                                              |                   |
|                                       |                                                  |                      | Section                     | n 5, PLUG      | GING R          | ECORD            |               |            |                                              |                   |
|                                       |                                                  |                      |                             |                |                 | -<br>- [ ]       | Depth i       | in Feet    |                                              | ubic Feet         |
| Plugging Metho                        |                                                  |                      |                             |                |                 | No.              | Тор           | Botto      |                                              | f Cement          |
| Plugging appro                        | _                                                |                      |                             |                |                 | - 1 2            |               |            |                                              |                   |
|                                       |                                                  | State Engi           | neer Represe                | ntative        |                 | - 3              |               |            |                                              |                   |
| Date Received                         |                                                  |                      | FOR USE                     |                |                 | NEER ONL         |               |            |                                              | •                 |
| E1 V /                                | -7359                                            |                      |                             |                | uad             | •                | FWL           |            |                                              |                   |
| لكك. File No                          | 1221                                             |                      |                             | Use            | s m             |                  | Location No.  | 1.00.1     | <u> ユ                                   </u> | 444               |

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section 1  | Ĺ                     |                                               | (4)                    | Oum          | or of wall      | TIM.      | Daan               |                    |                                       |  |  |  |
|------------|-----------------------|-----------------------------------------------|------------------------|--------------|-----------------|-----------|--------------------|--------------------|---------------------------------------|--|--|--|
|            |                       |                                               |                        |              |                 |           |                    | St.                |                                       |  |  |  |
| 1. !       | 1                     |                                               |                        |              |                 |           |                    |                    | w Mexico                              |  |  |  |
|            |                       |                                               |                        |              |                 |           |                    |                    | d is located in the                   |  |  |  |
|            |                       |                                               | E .                    |              |                 |           |                    |                    | Rge. 38E                              |  |  |  |
|            |                       | <del></del>                                   | — (B)                  | Drilli       | ing Contra      | actor.Q   | R. Musslew         | hite Lice          | nse No.WD99                           |  |  |  |
| }          |                       |                                               |                        |              |                 |           |                    |                    |                                       |  |  |  |
|            | <del> </del>          |                                               | , ,                    |              |                 |           |                    |                    | ew Mexico                             |  |  |  |
|            |                       |                                               |                        | •            |                 |           |                    |                    | 19.57                                 |  |  |  |
|            | Plat of 640 a         |                                               | Dril                   | ling w       | as comple       | eted F0   | b. 22,             |                    | 1\$7                                  |  |  |  |
| •          |                       | -                                             | - faat ah              | מזים פם      | n level         |           | Total de           | mth of well 10f    |                                       |  |  |  |
|            |                       |                                               |                        |              |                 |           |                    |                    | etion 70                              |  |  |  |
| 4          |                       | 1 19 9110-1                                   | JW 01 01.              |              |                 |           | ,                  | ter about compre   | , 1011                                |  |  |  |
| Section 2  | <del></del>           |                                               |                        |              | CIPAL WA        | ATER-BEAR | ING STRATA         |                    |                                       |  |  |  |
| No.        | Depth in              | To                                            | Thicknes<br>Feet       |              |                 | De        | scription of Water | r-Bearing Formatio | n,                                    |  |  |  |
| 1          |                       |                                               |                        |              |                 |           |                    |                    |                                       |  |  |  |
|            | 80                    | 105                                           | 25                     |              | Red s           | and &     | sand rock          |                    |                                       |  |  |  |
| 2          |                       |                                               | ļ <del> </del>         |              |                 |           |                    |                    |                                       |  |  |  |
| 3          |                       |                                               |                        |              |                 |           |                    |                    |                                       |  |  |  |
| 4          |                       |                                               | <u> </u>               |              | ļ <del></del>   |           |                    |                    |                                       |  |  |  |
| 5          |                       |                                               | <u> </u>               |              |                 |           |                    |                    | · · · · · · · · · · · · · · · · · · · |  |  |  |
| Section 3  | 3                     |                                               |                        |              | RECOR           | D OF CAS  | SING               |                    |                                       |  |  |  |
| Dia<br>in. | Pounds<br>ft.         | Threa<br>in                                   | ·                      | Dер<br>Гор ( | pth<br>  Bottom | Feet      | Type Shoe          | Perfo<br>From      | orations<br>  To                      |  |  |  |
| 6 5/8      | 20                    | None                                          |                        | 0            | 10              | 10        |                    |                    |                                       |  |  |  |
| 0 // 5     | -~-                   | ATOMO                                         |                        |              | 10              |           | 1,0116             | ИОДВ               |                                       |  |  |  |
|            |                       | 1                                             |                        |              |                 |           | -                  |                    |                                       |  |  |  |
|            |                       |                                               |                        |              |                 |           |                    |                    |                                       |  |  |  |
| Section 4  | <u>l</u>              |                                               | R                      | LECORI       | D OF MUE        | DDING AN  | ID CEMENTING       |                    |                                       |  |  |  |
|            | in Feet               | Diame                                         |                        | Tons         | No. Sa          |           |                    |                    |                                       |  |  |  |
| From       | То                    | Hole in                                       | 1                      | Clay         | Cem             |           |                    | Methods Used       |                                       |  |  |  |
|            |                       |                                               |                        |              |                 |           |                    |                    |                                       |  |  |  |
|            |                       |                                               |                        |              |                 |           |                    |                    |                                       |  |  |  |
|            |                       | <u> </u>                                      |                        |              |                 |           |                    |                    |                                       |  |  |  |
|            | 1                     | ]                                             |                        | - <i>-</i>   | 1               |           |                    |                    |                                       |  |  |  |
| Section 5  | i.                    |                                               | •                      |              | PI LIGE         | SING RECO | מפּט               |                    |                                       |  |  |  |
|            | Plugging              | Contract                                      | ···                    |              |                 |           |                    | License No         |                                       |  |  |  |
|            | riugging<br>id Number |                                               |                        |              |                 |           |                    | State              |                                       |  |  |  |
|            |                       |                                               | -                      |              |                 |           |                    | pe of roughage_    |                                       |  |  |  |
|            | method us             |                                               |                        | ) VA AV-     | AGIIGE -        | 300       |                    |                    | 19                                    |  |  |  |
|            | approved              |                                               |                        |              |                 |           |                    | gs were placed as  |                                       |  |  |  |
| ***50 U    | WFF                   | ~, .                                          |                        |              |                 |           | Depth of Pl        | <u> </u>           | 1010113.                              |  |  |  |
| · )        |                       | <u>,, , , , , , , , , , , , , , , , , , ,</u> | Bas                    | in Sup       | ervisor         | No        |                    | No. of             | Sacks Used                            |  |  |  |
| ·7 h       | FOR USE               | OF STAT                                       | E ENGIN                | EER ON       |                 | [1]       | Filting.           |                    |                                       |  |  |  |
| 11         | 75                    | <u> </u>                                      |                        | 77.77        | 2000            | 1 (12.01) | ni iron , a        | . z.d              |                                       |  |  |  |
| Date F     | Received 📜            |                                               | <u>MEM 17</u>          | 7 1957       |                 |           | 1 633 x x          |                    |                                       |  |  |  |
| 9          | ***<br>**             |                                               | OFF                    |              | 7) 12           | -   व्ह   |                    |                    |                                       |  |  |  |
|            |                       | 1777                                          | UPID WATE<br>RUE TU, G |              |                 |           |                    |                    |                                       |  |  |  |
|            | 4-3                   | 266                                           |                        |              |                 | Dam       | Tantia             |                    | 15,400                                |  |  |  |
| File No    | 100                   | 1 4 4                                         |                        |              | ــەse.          | <u> </u>  | Locatio            | n No. 1_(          |                                       |  |  |  |

## STATE ENGINEER OF WELL RECORD

|  |   | ,- |     |   | •• | 1      | •  |     |
|--|---|----|-----|---|----|--------|----|-----|
|  | • | ٠. | 6.1 | - | ,  | <br>٠, | ١, | . ب |

| Street or                        | of well () () () () () () () () () () () () () | ddress               |                  | I. GENERAL I      |                                               | on owner           | er's Well No. | 62                 | 298               |
|----------------------------------|------------------------------------------------|----------------------|------------------|-------------------|-----------------------------------------------|--------------------|---------------|--------------------|-------------------|
| Well was drille                  | d under Permi                                  | 1 No. 4-             |                  | 1.5               |                                               | ed in the:         | 31            | F                  | N M D M           |
|                                  | •                                              | •                    | -                |                   |                                               | Ka                 |               |                    |                   |
|                                  |                                                |                      |                  |                   |                                               |                    |               |                    |                   |
| Subdi                            | ivision, recorde                               | ed in                | LEA              | Of the            | County.                                       |                    |               |                    |                   |
|                                  | - <u>-</u>                                     | feet, Y=             |                  | feet, N           | .M. Coordinat                                 | e System           |               |                    | Zone in<br>Grant. |
|                                  |                                                | D. O.                | Ida              | Ker               |                                               | License No         | WD            | 65                 | 7                 |
| Address Z                        | 0. Bo                                          | x 23 a               | <del>2/. /</del> | 40665             | NA                                            | 1                  |               |                    |                   |
| Drilling Began                   | 4-1-                                           | 2 -76 com            | pleted 4         | -14-76            | 2 Type tools.                                 | CabLE              | Size of       | hole               | <b></b>           |
|                                  |                                                | _                    |                  |                   |                                               | tt. Total depth    |               |                    |                   |
| Completed we                     | Il is 🖒 s                                      | shallow 🔲            | artesian.        |                   | Depth to wat                                  | er upon completion | of well       | <u>32</u>          | ft.               |
| <u></u>                          |                                                | Sec                  | ction 2. PRIN    | CIPAL WATE        | R-BEARING                                     | STRATA             | ~~··          |                    |                   |
| Depth<br>From                    | in Feet<br>To                                  | Thickness<br>in Feet | s                | Description of    | Water-Bearing                                 | Formation          | 1             | nated Y<br>s per m |                   |
| 32                               | 100                                            | 68                   |                  | VAter             | <u> </u>                                      | AND                | 25            | GI                 | M                 |
|                                  |                                                |                      |                  | <u></u>           | <u>,                                     </u> | ·                  | -             |                    |                   |
|                                  |                                                |                      |                  |                   | ·                                             | <del></del>        |               |                    |                   |
|                                  | <u> </u>                                       |                      |                  |                   |                                               |                    | <u></u>       | <del></del>        |                   |
|                                  | 1 5                                            | 1 , [                |                  | on 3. RECORD      | T                                             |                    |               | Perfora            |                   |
| Diameter (inches)                | Pounds<br>per foot                             | Threads per in.      | Тор              | in Feet<br>Bottom | Length<br>(feet)                              | Type of Sho        | e Fr          | om                 | To                |
| 6/8                              |                                                | <u> </u>             | 0                | 100               | 100                                           | NONC               | 3 8           | 5                  | 100               |
|                                  |                                                |                      |                  |                   |                                               |                    |               |                    |                   |
| L                                |                                                |                      | ·                |                   |                                               |                    |               |                    |                   |
|                                  | in Feet                                        | Secti                | ion 4. RECO      | RD OF MUDDI       | NG AND CE                                     | MENTING            |               |                    |                   |
| From                             | То                                             | Diameter             | of M             |                   | Cement                                        | Metho              | od of Placen  | nent               |                   |
|                                  |                                                | 8                    |                  |                   |                                               | ·                  |               |                    |                   |
| <u> </u>                         |                                                |                      |                  |                   |                                               |                    |               |                    |                   |
| L                                | L                                              |                      |                  |                   |                                               |                    |               | ·                  |                   |
|                                  |                                                |                      | Section          | on 5. PLUGGIN     | G RECORD                                      |                    |               |                    |                   |
| Plugging Contr.<br>Address       |                                                |                      |                  |                   |                                               | Depth in           | Feet          | Cub                | ic Feet           |
| Plugging Metho<br>Date Well Plug |                                                |                      |                  |                   | No.                                           | Тор                | Bottom        |                    | Cement            |
| Plugging appro                   |                                                |                      | ·                |                   | $\frac{2}{3}$                                 |                    |               | -                  |                   |
|                                  |                                                | State Eng            | incer Repres     | entative          | 4                                             |                    |               |                    |                   |
| Date Received                    | anil                                           | 26 1976              | FOR USE          | OF STATE EN       | IGINEER ON                                    | LY                 |               | :                  | ٠.                |
| Date Received                    |                                                | -/·•                 | <i>\</i>         | Quad              |                                               | FWL _              | <del></del>   | FSL_               |                   |
| File No                          | 1 2 7                                          | <u> </u>             |                  | Use               |                                               | Location No        |               |                    | 14/1036           |

### STATE ENGINEER OFFICE WELL RECORD

FIELD EMAR. LUG

\_ Location No. 19.38.15.41100

#### Section 1. GENERAL INFORMATION

| S       | treet or             | Post Office A      | d W. Weldy<br>ddress 22 I | Llano Gra    | nde Rd.           |                                         |               | Ov          | vner's W | ell No. <i>72</i> | 825 1                  |
|---------|----------------------|--------------------|---------------------------|--------------|-------------------|-----------------------------------------|---------------|-------------|----------|-------------------|------------------------|
| Well wa | as drille            | d under Permit     | No. L-78                  | 382          |                   | and is lo                               | cated in      | the:        |          |                   |                        |
| a       |                      | _ ¼ <u>NW</u> ;    | 4 <u>NW</u> ¼ SI          | E ¼ of So    | ection <u>15</u>  | Townsh                                  | ւip <b>19</b> | S           | Range 🚅  | 38E               | N.M.P.M                |
|         |                      |                    | of Map No                 |              |                   |                                         |               |             |          |                   |                        |
|         |                      |                    | of Block No.              |              |                   |                                         |               |             |          |                   |                        |
| ·       | Subdi                | vision, recorde    | d in Le                   | ea           | 01 (              | County.                                 |               |             |          | ,                 |                        |
| đ       |                      |                    | _ feet, Y=                |              | feet,             | N.M. Coordi                             | nate Sy       | stem        |          |                   | Zone in<br>Grant.      |
|         |                      |                    | G. D. 01d                 |              |                   |                                         |               | License No. | WD=657   |                   | <u> </u>               |
| Addres  | sP                   | 0. Box23           | 21, Hobbs,                | N. M.        | 88240             | 37 <sup>1</sup>                         |               |             |          |                   |                        |
|         |                      |                    | 9 Com                     |              |                   |                                         | olsC          | able        | S        | ize of hol        | e9in.                  |
|         |                      |                    |                           |              | *                 |                                         |               |             |          |                   | 0ft.                   |
| Comple  |                      | •.<br>             | hallow                    |              | CIPAL WAT         |                                         |               |             | ion of w |                   | ft.                    |
| Fr      | Depth<br>om          | in Feet<br>To      | Thickness<br>in Feet      | ;<br>        | Description o     | f Water-Bear                            | ing For       | mation      |          |                   | ed Yield<br>er minute) |
| 32      |                      | 100                | 68                        | '            | Water an          | d Sand                                  |               |             | 25       | G P M             |                        |
|         | <del></del>          |                    |                           |              |                   | . , , , , , , , , , , , , , , , , , , , | <del></del> · |             |          |                   |                        |
|         |                      |                    |                           |              |                   |                                         |               |             |          |                   |                        |
| · .     |                      |                    | 771-                      |              | on 3. RECOR       | 7                                       |               |             |          | Pos               | forations              |
|         | neter<br>thes)       | Pounds<br>per foot | Threads<br>per in.        |              | in Feet<br>Bottom | Lengti<br>(feet)                        |               | Type of S   | Shoe     | From              |                        |
| 6 5     | /8                   |                    |                           | 0            | 100               | 100:                                    | -             | none        |          | 85                | 100                    |
|         |                      |                    |                           |              |                   |                                         |               |             |          |                   |                        |
|         |                      |                    | Secti                     | on 4. RECO   | RD OF MUD         | DING AND                                | CEMEN         | ITING       |          |                   |                        |
| Fr      | Depth<br>om          | in Feet<br>To      | Hole<br>Diameter          | Sac<br>of M  | . 1               | Cubic Feet<br>of Cement                 |               | Me          | thod of  | Placement         | :                      |
|         |                      |                    | 9                         |              |                   |                                         |               |             |          |                   |                        |
|         |                      |                    |                           |              |                   |                                         |               |             |          |                   |                        |
| · · _   |                      |                    |                           |              |                   |                                         |               |             |          |                   |                        |
| Di      | - 01                 |                    |                           | Section      | n 5. PLUGGI       | NG RECOR                                | D             |             |          |                   |                        |
| Address | _                    | ector              |                           |              |                   |                                         |               | Depth       | in Feet  |                   | Cubic Feet             |
|         | g Metho<br>ell Plugg |                    |                           | <del></del>  | <u> </u>          | N                                       |               | Тор         | Bott     |                   | of Cement              |
|         | g approv             |                    |                           |              | 7 pro             |                                         |               |             |          |                   |                        |
|         |                      | <del></del>        | State Eng                 | ineer Repres |                   | 3                                       |               |             |          |                   |                        |
|         |                      |                    |                           |              | entative          | .   4                                   |               |             |          |                   |                        |

DOM.

File No. L-7882

### Section 1. GENERAL INFORMATION

| Street or                         | Post Office A      | ank Glass<br>ddress Star<br>bs. N.M.882 | Rt."A"       | &28 Lla     | no Gran            | nde            | Ov             | vner's Well No    |              |                    |
|-----------------------------------|--------------------|-----------------------------------------|--------------|-------------|--------------------|----------------|----------------|-------------------|--------------|--------------------|
| Well was drille                   | d under Permi      | t No. L-61                              | 01           |             | and                | is locate      | d in the:      |                   |              |                    |
| a                                 | _ ¼                | 1/4 N <sup>1</sup> /2 1/4 S             | SE ¼ of Se   | ection 15   | То                 | wnship_        | 19             | Range 38E         |              | N.M.P.M.           |
| b. Tract                          | No                 | of Map No.                              |              | o           | f the              |                |                | <u>.</u>          |              |                    |
| c. Lot N<br>Subdi                 | loivision, recorde | of Block No                             | Lea          | o           | f the              |                |                |                   | <del></del>  |                    |
|                                   |                    |                                         |              |             | t, N.M. Co         | ordinate       | System         |                   |              |                    |
| (B) Drilling (                    | Contractor         | G.D. 01                                 | daker        |             |                    |                | License No.    | WD- 657           |              | <del></del>        |
| Address                           | P.O.Box 2          | 2321. Hobb                              | s. N.M.8     | 8240        |                    |                | :              |                   |              |                    |
|                                   |                    |                                         |              |             |                    |                | Roary          |                   |              | 7in.               |
| Elevation of la                   | nd surface or      | 3650                                    |              | . ai        | t well is          | 3650           | ft. Total dep  | oth of well       | 10           | OO ft              |
| Completed wel                     |                    | shallow 🗆 a                             | rtesian.     |             | Depth              | ı to wate      | r upon complet |                   |              |                    |
| Depth                             | in Feet            | Sect<br>Thickness                       | tion 2. PRIN | CIPAL WA    | TER-BEA            | RING S         | TRATA          | Fetin             | mated Y      | ield               |
| From                              | То                 | in Feet                                 |              | Description | of Water-          | Bearing l      | Formation      |                   | is per m     |                    |
| 38                                | 100                | 62                                      |              | Wa          | ter.               | Sand           | . 17-          | 25g               | PM           |                    |
|                                   |                    |                                         | <del> </del> |             |                    | ·              |                |                   |              |                    |
|                                   |                    |                                         |              |             |                    |                |                |                   |              |                    |
|                                   |                    | 1                                       | Sectio       | n 3. RECO   | ORD OF C           | ASING          |                | <u> </u>          |              |                    |
| Diameter<br>(inches)              | Pounds<br>per foot | Threads per in.                         |              | in Feet     |                    | ength<br>feet) | Type of S      | hoe               | Perfora      |                    |
|                                   | periodi            | per m.                                  | Тор          | Botton      |                    | .00            |                | 7,                | rom          | 100                |
| 65/8                              |                    |                                         | 0            | 100         |                    | .00            | none           |                   |              | 100                |
|                                   |                    |                                         |              |             |                    |                |                |                   |              |                    |
|                                   |                    | Section                                 | on 4. RECO   | RD OF MU    | JDDING A           | ND CEM         | IENTING        | ·                 |              |                    |
| Depth<br>From                     | in Feet<br>To      | Hole<br>Diameter                        | Saci<br>of M |             | Cubic F<br>of Ceme |                | Me             | thod of Placer    | nent         |                    |
|                                   |                    | 7                                       |              |             |                    |                |                |                   |              | -                  |
|                                   |                    | 1                                       |              |             |                    |                |                |                   |              |                    |
|                                   |                    |                                         |              |             |                    |                |                |                   |              |                    |
|                                   |                    |                                         | Sectio       | n S. PLUG   | GING RE            | CORD           |                |                   |              |                    |
| Plugging Contra                   | actor              |                                         |              |             | <del></del>        |                |                |                   | <del></del>  |                    |
| Plugging Metho                    | od                 |                                         |              |             |                    | No.            | Top            | in Feet<br>Bottom | _            | oic Feet<br>Cement |
| Date Well Plugg<br>Plugging appro | ged                |                                         |              |             |                    | 1 2            |                |                   | <del> </del> |                    |
|                                   | <u> </u>           | State Engi                              | neer Repres  | entative    | <del></del>        | 3 4            |                |                   | -            |                    |
|                                   |                    |                                         | FOR USE      | OF STAT     | E ENGINE           |                | .Y             |                   |              |                    |
| Date Received                     | April              | 13, 1987                                |              | Q           | uad                |                | FWL            | ·                 | _ FSL.       |                    |

File No. L-6101

Use DOMESTIC Location No. 19.38.15.41131

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| L                 |                                                                         |                                                                                                 |                                                                                                                               | -(                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1/3                         |
|                   | Pounds ft.  Pluggin d Numb Clay used method approve  FOR US  Received 7 | Pounds ft.  Plugging Cod Number Clay used method used approved by  FOR USE 61  Received 7 2:8 W | Pounds Threat in Plastio  Plugging Contract do Number Clay used method used approved by:  FOR USE OF STATE Received 7.8 Wd 1- | Pounds Threads in Plastis  In Feet Diameter Hole in in.  Plugging Contractor Hole in in.  Plugging Contractor Hole in in.  Provided Number Clay used method used approved by:  FOR USE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE | Street and City Well was SW 44 (B) Drilling w Drilling w Drilling w Drilling w On at top of casing in feet above servether well is shallow or artesian.  PRIN Depth in Feet Thickness in Feet From To Feet  41' 50' 9'  50 100 50  RECOR  In Feet Diameter Tons To Hole in in. Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons Clay  Plugging Contractor In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter Tons In Feet Diameter | Street and Number   City   Hobbs   Well was drilled un   SW   14 NW   14 (B) Drilling Control   Street and Number   City   Hobbs   Drilling was common   City   Hobbs   Drilling was common   City   Hobbs   Drilling was common   City   Hobbs   Drilling was completed   Prilling was completed   Pr | Street and Number | Street and Number Box City Hobbs Well was drilled under Permi Sw 4 Nw 4 SB 4 (B) Drilling Contractor J Street and Number 920 E City Hobbs Drilling was commenced Drilling was completed Drilling drilling was | Street and Number Box 758  City Hobbs Well was drilled under Permit No. L. L. L. L. L. L. L. L. L. L. L. L. L. | J(A) COWGET of well J.G. Glark Street and Number Box 758  City Hobbs Well was drilled under Permit No. L-4489 SW-4 NW 4 SR 4 of Section 15 Street and Number 920 E, Gypsy Boy City Hobbs Drilling was commenced 8-24-60 Drilling was commenced 8-24-60 Drilling was completed 8-28-60  Int of 840 acres) In at top of casing in feet above sea level Total depth of ether well is shallow or artesian shallow Depth to water up PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Description of Water-Beart From To Feet Solve Stand  RECORD OF CASING  Pounds Threads Depth Feet Type Shoe In Feet Diameter Tons Tons No. Sacks of Cement Met To Hole in in Clay Cement Met  RECORD OF MUDDING AND CEMENTING  RECORD OF MUDDING RECORD  Plugging Contractor Clay Sacks of Type of Tons of Roughage used Type of Mumber Clay used Tons of Roughage used Type of Sayused Tons of Roughage used Tons of Plugged.  Received Tons of Roughage used Type of Sayused Tons of Roughage Used Tons of Roughage Type of Sayused Tons of Roughage Type of Say | J(A)CPUPEr of well J.G. Glark Street and Number Box 758  City Hobbs State Well was drilled under Permit No. J4489 and Street and Number Job Value of Section 15. Twp 195  (B) Drilling Contractor J.E. Barton Lices Street and Number Job Pox 42  City Hobbs State Drilling was commenced B-2460 Drilling was completed 8-28-60  Int of 640 acres)  Int of 640 acres)  Int of 640 acres  Permit To Drilling was completed B-28-60  Int of 640 acres  PRINCIPAL WATER-BEARING STRATA  Despth in Feet Tolekness in Description of Water-Bearing Formation From To Feet Description of Water-Bearing Formation From To Stand Rock (Porous)  RECORD OF CASING  Pounds In Feet Tolekness in Description of Water-Bearing Formation From To Bottom Feet Type Shoe Ferton  RECORD OF MUDDING AND CEMENTING  In Feet Diameter Tons No. Sacks of Cement Methods Used  RECORD OF MUDDING RECORD  Plugging Contractor License No. Cement Type of roughage method used Tons of Roughage used Type of roughage Date Plugged.  Date Pluggen Cement Plugs were placed as Decived approved by:  Care USE OF STATE WINNERS ONLY State  Basin Supervisor  FOR USE OF STATE WINNERS ONLY State  Received 233 Nin 3 11/15  Care USE OF STATE WINNERS ONLY No. O Depth of Plug Were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plugs were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug were placed as Cement Plug Were Plug Methods Were Plug Methods Were Plug Methods Were Plu | Street and Number   Box 758 |

#### Section 1. GENERAL INFORMATION

| (A)               | Owner of                | Post Office Ad    | 12.                 |                      | o Grande       |               |                 | Owner's we  | :II NO           |                       |  |
|-------------------|-------------------------|-------------------|---------------------|----------------------|----------------|---------------|-----------------|-------------|------------------|-----------------------|--|
|                   | Street or<br>City and   | State             | aress — He          | obbs, NH             | 88240          |               |                 |             |                  |                       |  |
| Well v            | as drilled              | i under Permit i  | L-10,0              | 46                   |                | and is locat  | ed in the:      |             |                  |                       |  |
|                   |                         | _ ¼ ¼             |                     |                      |                |               |                 | Range       | 38E              | NMPM                  |  |
|                   |                         | _ 14 14<br>No     |                     |                      |                |               |                 |             |                  |                       |  |
|                   |                         |                   | -                   |                      |                |               |                 |             |                  |                       |  |
|                   | c. Lot N<br>Subdi       | ovision, recorded | of Block No<br>I in | Lea                  | of th          | County.       | B. p. 44        |             |                  |                       |  |
|                   |                         |                   |                     |                      |                |               | te System       |             |                  |                       |  |
|                   |                         | Contractor        |                     | s Drillin<br>Bender, | ig<br>Hobbs, N | M88240        | License 1       | VoWD        | 882              |                       |  |
|                   |                         |                   |                     |                      |                |               |                 |             |                  |                       |  |
| Drillin           | g Began                 | 11-18-88          | Comp                | oleted               | 11-26-8        | 8 Type tools  | Button          |             | size of hole.    | <u>83/4</u> in.       |  |
| Elevat            | ion of la               | nd surface or _   | ····-               |                      | at w           | ell is        | ft. Total       | depth of we | 120              | ft.                   |  |
| Comp              | leted wel               | lis 🏿 sh          | iallow 🗀 a          | rtesian.             |                | Depth to wa   | ter upon comp   | letion of w | eli              | 70 ft.                |  |
|                   |                         |                   | Sec                 | tion 2. PRIN         | CIPAL WATE     | R-BEARING     | STRATA          |             |                  |                       |  |
|                   |                         | in Feet           | Thickness           |                      | Description of | Water-Bearing | Formation       |             | Estimated        |                       |  |
| · · F             | rom                     | To                | in Feet             |                      |                |               | , 1 01111211011 |             | gallons per      |                       |  |
|                   | 70                      | 120               | 50                  | san                  | d & sands      | tone          |                 | 30          | -11              |                       |  |
|                   |                         |                   |                     |                      |                |               | _               |             |                  |                       |  |
|                   |                         |                   |                     |                      |                |               |                 |             |                  |                       |  |
|                   |                         |                   |                     |                      |                |               |                 |             |                  |                       |  |
| L                 |                         | <u> </u>          |                     | Sectio               | n 3 RECORE     | OF CASING     |                 |             |                  |                       |  |
| Dia               | meter                   | Pounds            | Threads             |                      | in Feet        | Length        |                 | of Shoe     | Perfo            | orations              |  |
| <u> </u>          | iches)                  | per foot          | per in.             | Тор                  | Bottom         | (feet)        | Турс            |             | From             | То                    |  |
|                   | 51/2                    | 160PVC            |                     | 1                    | 120            | 121           |                 |             |                  | 120                   |  |
|                   |                         |                   |                     | -                    |                | ·             |                 |             |                  |                       |  |
|                   |                         |                   | .                   |                      |                |               |                 |             |                  |                       |  |
|                   | ·                       |                   | Section             | on 4. R ECO          | RD OF MUDI     | DING AND CE   | MENTING         |             | <u> </u>         |                       |  |
|                   | Depth                   |                   | Hole                | Sack                 | cs C           | ubic Feet     |                 | Method of   | Placement        |                       |  |
| 1                 | rom                     | То                | Diameter            | of M                 | ud C           | of Cement     |                 |             |                  |                       |  |
|                   |                         |                   |                     |                      |                |               |                 | ····        |                  |                       |  |
|                   |                         | 77,40             |                     | 44.1                 |                | . 3           |                 |             |                  |                       |  |
|                   |                         |                   |                     |                      |                |               |                 |             |                  |                       |  |
|                   |                         | •                 |                     | Sectio               | n 5. PLUGGI    | NG RECORD     | : :             |             |                  |                       |  |
| Pluggi:<br>Addre: | ng Contra               | ictor             |                     | <del></del>          | ***            | <u> </u>      | Dan             | th in Feet  | <del>-   -</del> | - Li- F4              |  |
| Pluggii           | ng Metho                | d                 |                     |                      | :              | No.           | Тор             | Bott        |                  | ubic Feet<br>f Cement |  |
|                   | Vell Plugg<br>ng approv |                   |                     |                      |                | 1 2           |                 |             |                  |                       |  |
|                   |                         |                   |                     |                      |                | 3             |                 |             |                  |                       |  |
|                   |                         |                   | State Engi          | ineer Represo        | entative       | 4             | 1               |             |                  |                       |  |

L-10,046

File No.\_

\_ Location No. \_\_19.38.15.4130



| Section | 1 | CENER | ١T | INFORM | A TION |
|---------|---|-------|----|--------|--------|

| (A) Owner o                     | f well           | Benny                | 7000        | Boddy                                 | Joseph Comment      | Оwn                           | er's Well No. | д.,                       |  |
|---------------------------------|------------------|----------------------|-------------|---------------------------------------|---------------------|-------------------------------|---------------|---------------------------|--|
|                                 | Post Office A    |                      | 2, 2        | m                                     |                     |                               |               |                           |  |
| Well was drille                 | d under Permit   | No. 2-9              | 821         |                                       | _ and is locate     | ed in the:                    |               |                           |  |
| a,                              | ¼ ;              | 4N <u>4</u>          | SE 14 of S  | ection 15                             | Township            | 19-S Ra                       | nge38-        | ÉN.M.P.N                  |  |
|                                 | ~                | of Map No.           |             |                                       |                     | ,                             |               |                           |  |
|                                 |                  |                      |             |                                       |                     | 10 GRZN                       | 160           |                           |  |
| Subdi                           | ivision, recorde | d in                 | .76         | <u>d</u> (                            | County.             |                               |               |                           |  |
| the                             |                  |                      |             |                                       |                     | e System                      |               | Grant                     |  |
| B) Drilling                     | Contractor       | C, M,                | GRI         | SF 11/                                | · 1                 | License No.LL                 | 10 60         | 3                         |  |
| \ddress                         | 201              | WA                   | 100         | Hol                                   | 65, N               | M 882                         | 40            | · ·                       |  |
| Orilling Began                  | 5/2              | 186 Comp             | leted 5     | 13/86                                 | _ Type tools_       | License No. U. M. 882 Ro TRRY | Size of I     | hole 7/2 in               |  |
| levation of la                  | nd surface or _  |                      |             | at we                                 | ll is               | ft. Total depth               | of well       | <i>00</i> f1              |  |
| Completed wel                   | ll is 🗷 s        | hallow 🗆 a           | rtesian.    |                                       | Depth to wate       | er upon completion            | of well       | <u>51</u>                 |  |
|                                 |                  | Sect                 | ion 2. PRIN | NCIPAL WATE                           | R-BEARING S         | TRATA                         |               |                           |  |
| Depth<br>From                   | in Feet<br>To    | Thickness<br>in Feet |             | Description of                        | Water-Bearing       | Formation                     | 1             | ated Yield<br>per minute) |  |
| 50                              | 100              | 50                   | _           | Red.                                  | 5211                |                               |               |                           |  |
| <u> </u>                        | 100              | 32                   |             | /166.                                 | <u> </u>            |                               | /             |                           |  |
|                                 |                  |                      |             |                                       |                     | ·                             |               |                           |  |
|                                 |                  |                      |             |                                       |                     |                               |               |                           |  |
|                                 | <u> </u>         | <u> </u>             |             |                                       |                     | <del></del>                   | <u> </u>      |                           |  |
| Diameter                        | Pounds           | Threads              |             | on 3. RECORD                          | OF CASING<br>Length | 1                             | <del></del>   | Perforations              |  |
| (inches)                        | per foot         | per in.              | Тор         | Bottom                                | (feet)              | Type of Sho                   | e Fr          |                           |  |
| _5_                             |                  |                      | 0           | 100                                   | 100                 | none                          | 86            | 0 100                     |  |
|                                 |                  |                      |             |                                       |                     |                               |               |                           |  |
|                                 | <u> </u>         | Section              | on 4 RECO   | RD OF MUDD                            | ING AND CE          | AFNTING                       |               |                           |  |
|                                 | in Feet          | Hole<br>Diameter     | Sac<br>of M | ks C                                  | ibic Feet           |                               | od of Placem  | ent                       |  |
| From                            | To               | -7 1/                | 01 1/       | iuu oi                                | of Cement           |                               |               |                           |  |
|                                 | 100              | 1/2                  |             |                                       |                     | Gel W/                        | Wale          | ون                        |  |
|                                 |                  |                      |             |                                       |                     |                               |               |                           |  |
|                                 |                  |                      |             |                                       |                     |                               | ···           |                           |  |
|                                 |                  |                      | Section     | on 5. PLUGGIN                         | G RECORD            |                               |               |                           |  |
|                                 | actor            |                      |             | · · · · · · · · · · · · · · · · · · · | [ No                | Depth in                      | Feet          | Cubic Feet                |  |
| lugging Metho<br>ate Well Plugi |                  |                      |             |                                       | No.                 | Тор                           | Bottom        | of Cement                 |  |
| lugging appro                   | ved by: ,        | •                    |             |                                       | 2                   |                               |               |                           |  |
|                                 | •                | State Engi           | neer Repres | sentative                             | 4                   |                               |               |                           |  |
| D                               |                  | 10 1                 |             | OF STATE EN                           | GINEER ON           | LY                            |               |                           |  |
| ate Received                    | May              | 12, 1986             |             | Quad                                  |                     | FWL _                         |               | FSL                       |  |
| File No                         | L-98             | 321                  |             | Use [                                 | OMESTIC             | Location No                   | 19.38.1       | 5.41340                   |  |

#### WELL RECORD

Section 1. GENERAL INFORMATION

| Vell was drille                          | d under Permit   | No. 1                                 | -9018       |                  | and is located     | in the:                               |                                       |                                       |  |
|------------------------------------------|------------------|---------------------------------------|-------------|------------------|--------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|
| a                                        | ¼ Si: ½          | 4 Nk. 4 St.                           | ¼ of S      | ection 12        | Township           | Ra                                    | inge <u>કેટાઇ</u>                     | М.И                                   |  |
| b. Tract                                 | No5              | of Map No.                            |             | of the           |                    |                                       |                                       |                                       |  |
| c. Lot N                                 | lo               | of Block No                           | 2           | of the           | L1                 | ano Grande                            |                                       |                                       |  |
| Subdi                                    | ivision, recorde | d in <u>Le</u>                        | ล           | C                | ounty.             |                                       |                                       |                                       |  |
| d. X=<br>the                             |                  | feet, Y=                              |             | feet, N.         | M. Coordinate      | System                                |                                       | Zo:                                   |  |
| 3) Drilling (                            | Contractor(      | ldalar & 3                            | ons         |                  |                    | _ License No                          | NU-627                                |                                       |  |
| ddress                                   | il.Cx            | 2 <b>3</b> 21, obb                    | s i:.1      | 4.               |                    |                                       |                                       | 1.                                    |  |
| rilling Began                            | -8-2-32          | Comp                                  | leted       | 2-3-112          | Type tools         | Cable                                 | Size of                               | hole 103                              |  |
|                                          |                  |                                       |             | •                |                    | _ ft. Total depti                     |                                       |                                       |  |
| ompleted we                              |                  | hallow 🗀 a                            |             |                  |                    | upon completion                       |                                       |                                       |  |
| ompleted we                              | 1115 20 5        |                                       |             |                  |                    | 1.                                    | ii oi weii                            |                                       |  |
| Depth                                    | in Feet          | Thickness                             | ion 2. PRII | NCIPAL WATER     |                    |                                       | Estin                                 | nated Yield                           |  |
| From                                     | То               | in Feet                               |             | Description of V | <del></del>        |                                       | (gallon:                              | s per minute)                         |  |
| 32                                       | 100              | . 68                                  | ·   '       | vates sand       |                    | · · · · · · · · · · · · · · · · · · · | 25 0                                  | •i.                                   |  |
|                                          |                  |                                       |             |                  | -                  |                                       |                                       |                                       |  |
|                                          |                  |                                       |             |                  |                    |                                       |                                       |                                       |  |
|                                          | ·                |                                       |             |                  |                    |                                       |                                       |                                       |  |
|                                          | <u> </u>         | <u> </u>                              |             |                  |                    |                                       |                                       | •                                     |  |
| Diameter                                 | Pounds           | Threads                               |             | on 3. RECORD (   | Length             | 7 C Ch                                | _:                                    | Perforations                          |  |
| (inches)                                 | per foot         | per in.                               | Тор         | Bottom           | (feet)             | Type of Sh                            | Fr                                    | om To                                 |  |
| 5:/                                      |                  |                                       | C           | 100              | 100                | kone                                  | 70                                    | 100                                   |  |
|                                          |                  |                                       |             |                  |                    |                                       |                                       |                                       |  |
|                                          |                  |                                       |             |                  |                    |                                       |                                       |                                       |  |
|                                          |                  | Section                               | on 4. RECO  | RD OF MUDDI      | NG AND CEM         | ENTING                                |                                       |                                       |  |
| Depth<br>From                            | in Feet<br>To    | Hole<br>Diameter                      | Sac<br>of M |                  | bic Feet<br>Cement | Meth                                  | od of Placement                       |                                       |  |
|                                          |                  |                                       |             |                  |                    |                                       |                                       |                                       |  |
|                                          |                  | 10/2                                  |             |                  |                    |                                       | · · · · · · · · · · · · · · · · · · · |                                       |  |
|                                          | ļ <u>.</u>       |                                       | -           |                  |                    |                                       |                                       |                                       |  |
|                                          | L                |                                       |             |                  |                    |                                       |                                       | · · · · · · · · · · · · · · · · · · · |  |
|                                          |                  |                                       | Section     | on 5. PLUGGING   | G RECORD           |                                       |                                       |                                       |  |
|                                          | actor            |                                       |             |                  |                    |                                       |                                       | <b>,</b>                              |  |
|                                          | od               |                                       |             |                  | No.                | Depth in                              | Feet<br>Bottom                        | Cubic Fee                             |  |
| ldress                                   |                  |                                       |             |                  | 11                 |                                       |                                       |                                       |  |
| idress<br>ugging Metho<br>ate Well Plugs | ged              |                                       |             |                  |                    |                                       |                                       |                                       |  |
| ldress<br>ugging Metho                   | ged              | , , , , , , , , , , , , , , , , , , , | neer Repres |                  |                    |                                       |                                       |                                       |  |

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#### STATE ENGINEER OFFICE

#### WELL RECORD



| 58 120 62 WATER SAND  Section 3. RECORD OF CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Zone in Grant          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|
| a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Zone in Grant          |  |
| b. Tract No. of Map No. of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Zone in Grant          |  |
| c. Lot No. PT. 5 & 66 Block No. 2 of the LLANO GRANDE Subdivision, recorded in LEA County.  d. X= feet, Y= feet, N.M. Coordinate System the GENE EADES License No. WD982  Address RT. 4 TAHOKA, TX. 79373  Drilling Began 8-29-83 Completed 8-29-83 Type tools Rotary Size of hole Elevation of land surface or at well is ft. Total depth of well 12  Completed well is shallow artesian. Depth to water upon completion of well 58  Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons pe 58  Section 3. RECORD OF CASING  Diameter Pounds Threads Depth in Feet Length Type of Shoe From To Diameter Pounds per foot per in. Top Bottom (feet) Type of Shoe From From Top Bottom (feet) Type of Shoe From From Top Bottom (feet) Type of Shoe From From Top Bottom (feet) Type of Shoe From From Top Bottom (feet) Type of Shoe From From Top Bottom (feet) Type of Shoe From From Top Bottom (feet) Type of Shoe From From Top Bottom (feet) Type of Shoe From From Top Bottom (feet) Type of Shoe From Type of Shoe From Type Of Shoe From Type Of Shoe From Type Of Shoe From Type Of Shoe From Type Of Shoe From Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Shoe Type Of Sh | Zone in Grant  8 in ft |  |
| Subdivision, recorded in LEA County.  d. X=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Grant 8in ft           |  |
| the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Grant 8in ft           |  |
| Address RT. 4 TAHOKA, TX. 79373  Drilling Began 8-29-83 Completed 8-29-83 Type tools Rotary Size of hole Elevation of land surface or at well is ft. Total depth of well 58  Section 2. PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons pe 58 1.20 62 WATER SAND  Section 3. RECORD OF CASING  Diameter Pounds (inches) per foot per in. Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe Type Type Of Shoe Type Type Type Type Type Type Type Typ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | . 8 in                 |  |
| Drilling Began 8-29-83 Completed 8-29-83 Type tools Rotary Size of hole  Elevation of land surface or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | . 8 in                 |  |
| Elevation of land surface or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | £0ft                   |  |
| Section 2. PRINCIPAL WATER-BEARING STRATA    Depth in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ft                     |  |
| Section 2. PRINCIPAL WATER-BEARING STRATA    Depth in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |  |
| Depth in Feet Thickness in Feet Description of Water-Bearing Formation  Section 3. RECORD OF CASING  Diameter (inches) Per foot per in.  Thickness in Feet Description of Water-Bearing Formation  WATER SAND  Section 3. RECORD OF CASING  Depth in Feet Length Type of Shoe From Top Bottom (feet)  Top Bottom (feet)  Thickness Description of Water-Bearing Formation  Estimate (gallons per Formation)  Per Trype of Shoe From Top Bottom (feet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <del></del>            |  |
| Section 3. RECORD OF CASING  Diameter (inches) Pounds per foot Per in. Top Bottom (feet) Type of Shoe From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | d Yield                |  |
| Section 3. RECORD OF CASING  Diameter Pounds per foot Per in. Top Bottom (feet) Type of Shoe From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | per minute)            |  |
| Diameter (inches) Pounds per foot per in. Top Bottom (feet) Type of Shoe From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | . 35                   |  |
| Diameter Pounds per foot Per in. Top Bottom (feet) Type of Shoe From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |  |
| Diameter (inches) Pounds per foot per in. Top Bottom (feet) Type of Shoe From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |  |
| Diameter Pounds per foot Per in. Top Bottom (feet) Type of Shoe From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |  |
| Diameter (inches) Pounds per foot per in. Top Bottom (feet) Type of Shoe From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |  |
| (inches) per 100t per in. Top Bottom (feet) From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | forations              |  |
| 5 3/4 160 psi 120 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | To                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 120                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |
| Section 4. RECORD OF MUDDING AND CEMENTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |  |
| Depth in Feet Hole Sacks Cubic Feet Method of Placement  From To Diameter of Mud of Cement Method of Placement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |  |
| Tom 10 Daniele Stand Greener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |
| Section 5. PLUGGING RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |  |
| Address Depth in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cubic Feet             |  |
| Date Well Plugged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | of Cement              |  |
| Plugging approved by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |  |
| State Engineer Representative 3 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |  |
| FOR USE OF STATE ENGINEER ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |  |
| Date Received                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ,                      |  |
| September 1, 1983  Quad FWL FS  File No L-9310  Use DOMESTIC Location No 19.38.15.414                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L                      |  |

### STATE ENGINEER OFFICE WELL RECORD



E to the same

| Street or I                        | Post Office A                         | . Dobbins<br>Idress P.O.<br>bbs, New | ROX TE       | 325                                   | 240        |                  | Owner              | r's Well No.                         |              |             |  |
|------------------------------------|---------------------------------------|--------------------------------------|--------------|---------------------------------------|------------|------------------|--------------------|--------------------------------------|--------------|-------------|--|
| Well was drilled                   | under Permit                          | No. L-738                            | 31           |                                       |            | _ and is locate  | ed in the:         |                                      |              |             |  |
|                                    |                                       |                                      |              |                                       |            |                  | 19S Ran            | 38E                                  |              | MMDM        |  |
|                                    |                                       |                                      |              |                                       |            |                  | Kan                |                                      |              |             |  |
|                                    |                                       |                                      |              |                                       |            |                  | Grande             |                                      |              |             |  |
| c. Lot No<br>Subdiv                | ision, recorde                        | of Block No<br>d in <u>Lea</u>       |              |                                       | C C        | ounty.           | Grande             | <del></del>                          |              |             |  |
|                                    |                                       | _ feet, Y=                           |              |                                       | et, N.     | M. Coordinat     | e System           |                                      |              |             |  |
| B) Drilling C                      | ontractor                             | Abbott Br                            | os.          |                                       |            |                  | License No         | WD-46                                | <del>,</del> |             |  |
| ddress P.                          | 0. Box                                | 637, Hobb                            | s, New       | Mexic                                 | 00         | 88240            |                    |                                      |              |             |  |
| orilling Began _                   | 5/15                                  | /75 Compl                            | eted         | 5/16/'                                | <u> 75</u> | Type tools_      | Cable              | Size of l                            | hole         | <u>8</u> in |  |
| levation of lan                    | d surface or _                        |                                      |              | a                                     | t well     | is               | ft. Total depth    | of well 1                            | 00           | ft          |  |
| Completed well                     | is 🖺 s                                | hallow 🗀 ar                          | tesian.      |                                       | 1          | Depth to wate    | er upon completion | of well                              | 50           | ft          |  |
| Donth i                            | - Foot                                |                                      | on 2. PRIN   | ICIPAL W.                             | ATER       | BEARING S        | STRATA             | E.A.                                 | -1-d V       | Cald        |  |
| Depth in                           | To                                    | Thickness<br>in Feet                 | 1            | Descrip tio                           | n of V     | Vater-Bearing    | Formation          | Estimated Yield (gallons per minute) |              |             |  |
| 50                                 | 100                                   | 50                                   | Sá           | Sand                                  |            |                  |                    |                                      |              |             |  |
|                                    |                                       |                                      |              |                                       |            |                  |                    |                                      |              |             |  |
|                                    | -                                     |                                      |              |                                       |            |                  |                    |                                      |              |             |  |
|                                    |                                       |                                      |              | : :                                   |            |                  |                    |                                      |              |             |  |
|                                    |                                       |                                      | Sectio       | n 3. RECO                             | ORD (      | OF CASING        |                    |                                      |              |             |  |
| Diameter (inches)                  | Pounds<br>per foot                    | Threads per in.                      | Depth        |                                       |            | Length<br>(feet) | Type of Shoo       | Fro                                  | Perfora      | tions<br>To |  |
| 6 5/8                              | 12                                    | Welded                               | 0            | 100                                   | )          | 100              | None               |                                      | 80           | 100         |  |
|                                    |                                       |                                      |              |                                       |            |                  |                    |                                      |              |             |  |
|                                    |                                       |                                      |              |                                       |            |                  |                    |                                      |              |             |  |
|                                    |                                       | -i- Section                          | n 4. RECO    | RD OF M                               | IDDU       | NG AND CE        | MENTING            |                                      |              |             |  |
| Depth in                           | n Feet<br>To                          | Hole Diameter                        | Sacl<br>of M | ks<br>ud                              |            | ubic Feet Metho  |                    | od of Placement                      |              |             |  |
| · ·                                | · · · · · · · · · · · · · · · · · · · |                                      |              |                                       |            |                  | Cement at          | top                                  | g            |             |  |
|                                    | :<br>:                                |                                      | :            |                                       |            | .   .            |                    |                                      |              |             |  |
|                                    |                                       |                                      |              |                                       |            |                  |                    |                                      |              |             |  |
|                                    |                                       |                                      | Sectio       | on 5. PLUC                            | GING       | G RECORD         |                    |                                      |              |             |  |
| lugging Contract                   | ctor                                  |                                      | ., i. Xi     | Ç.                                    |            |                  | Depth in F         | eet                                  | Cub          | oic Feet    |  |
| lugging Method                     |                                       | <u> </u>                             |              |                                       |            | No.              | Тор                | Bottom                               |              | Cement      |  |
| ate Well Plugge<br>lugging approve |                                       |                                      |              |                                       |            | 1 2              |                    |                                      |              |             |  |
|                                    |                                       | State Engin                          | eer Repres   | entative                              |            | 3 4              |                    |                                      |              |             |  |
| ate Received                       | Dec.                                  | 3,1970                               | FOR USE      | OF STAT                               | EÉŃ        | GINEER ON        |                    |                                      |              |             |  |
|                                    | -737)                                 |                                      |              | , , , , , , , , , , , , , , , , , , , | ) uad _    | STA              | Location No. 19    | 3 % /                                |              |             |  |



FIELD FINGR. LOG WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section . | 1             |             |        | (A) Owne   | r of well |               | - Attaway                                     |                |                           |               |
|-----------|---------------|-------------|--------|------------|-----------|---------------|-----------------------------------------------|----------------|---------------------------|---------------|
|           |               |             |        |            |           |               | Routs A Bo                                    |                |                           |               |
|           |               | -           | - 17   | City 752   | hha Na    |               | 00                                            | State          | <u></u>                   |               |
| <b>—</b>  | <del>  </del> |             |        |            |           |               | nit No. L=501                                 |                |                           |               |
|           |               | - 1         | -      | 1/4        | ¼         | o- 1          | 4 of Section                                  | Twn.           | and Ree.                  | 1 dm          |
| <u> </u>  | <del> </del>  |             | `      | (B) Drilli | ng Contra | ector         | J. F. Bar                                     |                | icense No. 1              | 701           |
|           |               |             |        |            |           |               | x 42                                          |                | 2.001.20 2.01.21 <b>\</b> | T-14          |
|           | <u> </u>      |             | - 1    | City       | u         |               | •                                             |                | New No                    |               |
|           | 1 1           | ļ           |        |            | ddoll     | enced         | April 9                                       |                | 1                         | XICO          |
|           |               |             |        | Drilling w | as comple | enceu<br>eted | April 10                                      |                | 1                         | 9 (2          |
| •         | Plat of 640   |             |        |            |           |               | =                                             |                |                           |               |
| Elevatio  | n at top o    | of casing i | n feet | above se   | a level   | ····          | Total de                                      | pth of well    | 1008                      | 100'          |
| State w   | hether we     | ll is shall | ow or  | artesian_  | shall     | OM.           | Depth to wa                                   | ter upon con   | apletion 47!              |               |
| Section : | 2             |             |        | PRIN       | CIPAL WA  | TER-BEAR      | ING STRATA                                    | •              |                           |               |
| 1         | Depth i       | n Feet      | Thi    | ckness in  |           |               |                                               | . 5            |                           |               |
| No.       | From          | To          |        | Feet       | ;         |               | scription of Water                            | r-Bearing Forn | ation                     |               |
| 1         |               |             |        | ٠,         |           |               |                                               |                |                           |               |
|           | 53            | 61          |        | 81         |           |               |                                               |                | <del></del>               |               |
|           | _86           | 91          |        | 51         |           |               |                                               |                |                           |               |
| 3         |               |             |        |            |           |               |                                               | <u> </u>       |                           | <del></del>   |
| 4         |               | •           |        |            |           |               |                                               |                | <del></del>               |               |
| 5         |               |             |        |            |           |               |                                               | <del></del>    |                           |               |
| Section   | 3             |             |        |            | RECOR     | D OF CA       | SING                                          | , married 1997 |                           |               |
| Dia       | Pounds        | Threa       | .ds    | Der        |           | Feet          | Type Shoe                                     |                | erforations               |               |
| in.       | ft.           | . in        |        | Тор        | Bottom    |               |                                               | From           | To                        |               |
|           |               | ·           |        |            |           |               |                                               |                |                           |               |
|           | ļ             |             |        |            |           |               |                                               |                |                           |               |
|           | ļ             | <del></del> |        |            |           |               |                                               |                |                           |               |
|           | 1             |             |        |            |           |               | 1                                             |                |                           |               |
| Section 4 | 1             |             |        | RECOR      | OF MUD    | DING AN       | D CEMENTING                                   |                |                           |               |
| Depti     | in Feet       | Diame       |        | Tons       | No. Sa    | •             |                                               | Methods Use    | eđ                        |               |
| From      | То            | Hole in     | in.    | Clay       | Cem       | ent           |                                               |                |                           |               |
| ·         | <u> </u>      | _           |        |            |           |               |                                               |                |                           | <del></del>   |
|           | <u> </u>      |             |        | ·          |           |               |                                               |                |                           |               |
|           | 1:            |             |        | ***        |           |               |                                               |                |                           |               |
|           | <u> </u>      |             | !      |            | _i        |               |                                               |                |                           |               |
| Section 5 | i             | .,          |        | i          | PLUGG     | ING REC       | ORD                                           |                |                           |               |
|           |               | . Contrast  | 05     |            |           |               | sand stone                                    | Tigongo        | No.                       |               |
| ٠.        |               | •           |        | -          |           |               | <del>-</del> -                                |                |                           |               |
| 86        | nd Numbe      |             |        |            |           |               | water sand                                    |                |                           |               |
| ν,        | Clay used     |             | 5      | ons of the | Miliage u | seu           | sand stone                                    | e or rougha    | ge                        |               |
|           | method u      |             |        | pro        | DWI       |               | Date Plu<br>Marer asio<br>Cement Plug         | gged           | J 6-11                    | 19            |
| ingging   | approved      | i by:       |        |            |           |               | <del> </del>                                  | <del></del>    | d as follows:             | <del></del> , |
|           |               |             |        | Basin Supe |           | No            | Depth of Pl                                   | o N            | o. of Sacks Used          |               |
|           | FOR USI       | OF STAT     | E EN   | LINEER OF  | LY.       | 7 _           |                                               |                |                           |               |
|           | n en e        | ~ C 12      | י טבי  | BINEER ON  | 7111/10/  | <u> </u>      | <del>                                  </del> |                |                           |               |
| Date 1    | keceived      |             | 8 हा   | APR 30 /   |           | ┦             | <del>  </del>                                 |                |                           |               |
|           |               |             |        | OC day     | -961      |               | <u> </u>                                      |                |                           |               |
|           |               |             |        |            |           | <u></u>       |                                               |                |                           |               |
| File No   | 1.            | 501         | 3      | t st.      | Use       | W 9~          | ~ Locatio                                     | n No. 19.      | 38.15.4                   | 20            |

# STATE ENGINEER OFFICE WELL RECORD

#### Section 1. GENERAL INFORMATION

| Street or            | Post Office A      | Mrs. R. ddress P.O. s. N.M. 88                   | Box974       |                |                      | Owne               | er's Well No. |                              |
|----------------------|--------------------|--------------------------------------------------|--------------|----------------|----------------------|--------------------|---------------|------------------------------|
| ·                    |                    | No. L-989                                        |              |                | and is locate        | ed in the:         |               |                              |
|                      |                    |                                                  |              |                |                      | 19S Ra             | nge 38E       | N.M.P.N                      |
|                      |                    |                                                  |              |                | •                    |                    |               |                              |
| c. Lot N             | lo                 | of Block No.                                     | <u> </u>     | of th          | 1e                   |                    |               |                              |
| Subdi                | vision, recorde    | d inL                                            | ea           |                | County.              |                    |               |                              |
|                      |                    | feet, Y=                                         |              | -              |                      | e System           |               | Zone ii<br>Grant             |
| (B) Drilling (       | Contractor         | G.D. 01d                                         | aker         |                |                      | License No         | WD-657        |                              |
| Address P.C          | Box 2321           | , Hobbs, N                                       |              |                |                      | <u> </u>           |               |                              |
| Orilling Began       | 2-15-87            | Com                                              | pleted       | 2-17-87        | Type tools_          | Rotary             | Size of       | holein                       |
| Elevation of la      | nd surface or .    | 3650                                             |              | at w           | ell is <b>36</b> 50  | ft. Total depth    | of well       | 100 ft                       |
| Completed wel        | lis ⊠ s            |                                                  |              |                | Depth to wat         | er upon completion | of well       | 38 ft                        |
|                      | in Feet            | Thickness<br>in Feet                             |              | Description of | Water-Bearing        | Formation          |               | nated Yield<br>s per minute) |
| From                 | То                 |                                                  |              |                |                      |                    |               |                              |
| 38                   | 100                | 62                                               |              | Water          | Sand                 |                    | 25 G P        | <u>F1</u>                    |
|                      |                    |                                                  | -            |                |                      |                    |               |                              |
|                      |                    |                                                  | Section      | on 3. RECORE   | OF CASING            |                    | <u> </u>      |                              |
| Diameter<br>(inches) | Pounds<br>per foot | Threads per in.                                  | Depth        | in Feet        | Length<br>(feet)     | Type of Sho        | e <del></del> | Perforations                 |
|                      | , per root         | рег иг.                                          | Тор          | Bottom         |                      |                    |               | om To                        |
| 5                    |                    | <del>                                     </del> | 0 .          | 100            | 100                  | none               | 70            | 100                          |
|                      |                    |                                                  |              | · ·            |                      |                    |               |                              |
|                      |                    | Section                                          | on 4. RECO   | RD OF MUDI     | DING AND CEI         | MENTING            |               |                              |
| Depth<br>From        | in Feet<br>To      | Hole<br>Diameter                                 | Sac<br>of M  |                | Cubic Feet of Cement | Metho              | od of Placem  | ent                          |
|                      |                    | 7                                                |              |                |                      |                    |               |                              |
|                      |                    | ,                                                |              |                |                      |                    |               |                              |
|                      |                    |                                                  | <del> </del> |                |                      |                    | ····          |                              |
| ·                    |                    | 1                                                |              |                | <u>-</u>             |                    |               | <del></del>                  |
| lugging Contra       | actor              |                                                  |              | n 5. PLUGGI    | NG RECORD            |                    |               |                              |
| ddress               |                    |                                                  |              |                | No.                  | Depth in           |               | Cubic Feet                   |
| late Well Plugg      |                    |                                                  |              |                |                      | Тор                | Bottom        | of Cement                    |
| lugging approv       | red by:            |                                                  |              | * , :          | 3                    | -                  |               |                              |
|                      |                    | State Engi                                       | ineer Repres | entative       | 4                    |                    |               |                              |
| Date Received        | February           | 29, 1988                                         | FOR USE      | OF STATE E     | NGINEER ON           | LY FWL _           |               | FSL                          |

DOM

Location No. 19.38.15.42124

L-9896

File No.\_



# WELL RECORD



| Section    | 1                |               | (A) Own              | or of woll      | Wev                                   | ne Ballew                               |                  |                       |
|------------|------------------|---------------|----------------------|-----------------|---------------------------------------|-----------------------------------------|------------------|-----------------------|
|            | T                |               | 1 ' '                |                 |                                       |                                         |                  |                       |
| -          | 1 1              |               |                      |                 |                                       |                                         |                  | New Mexico            |
|            |                  |               |                      |                 |                                       |                                         |                  | and is located in the |
|            | -                |               |                      | 1               | 41                                    | 4 of Section                            | Twp              | Rge.                  |
|            | 11               |               | (B) Drill            | ing Contr       | actorE                                | d Burke                                 | L                | icense No. WD 111     |
| }          |                  | ]             | Street and           | d Number        |                                       | Box                                     | 306              |                       |
| ļ          | - <del>  -</del> |               | —   City             | Hobb            | S                                     |                                         | State            | New Mexico            |
|            |                  |               | Drilling v           | was comm        | nenced                                | *************************************** | April            | 23 19 59              |
| L          | 777-1-4 640      |               | Drilling v           | vas compl       | eted                                  |                                         | April            | 23 19 59              |
| •          | Plat of 640      | •             | - foot about or      | a laval         |                                       | Total da                                | mah of small     | 112                   |
|            | _                | _             |                      |                 |                                       |                                         |                  | pletion 60            |
|            |                  | ili iz zilali | •                    |                 |                                       |                                         | ver apon com     | pietion               |
| Section    |                  |               |                      | CIPAL W         | ATER-BEAF                             | RING STRATA                             |                  |                       |
| No.        | Depth :          | in Feet<br>To | Thickness in<br>Feet |                 | De                                    | escription of Water                     | r-Bearing Form   | ation                 |
| ı          | 60               | 122           | 62                   | Wate            | r sand                                |                                         |                  |                       |
| 2          |                  |               |                      |                 |                                       |                                         |                  |                       |
| 3          |                  |               |                      |                 | · · · · · · · · · · · · · · · · · · · |                                         |                  |                       |
| 4          | , .              |               |                      |                 |                                       |                                         |                  |                       |
| 5          |                  |               |                      | ļ               |                                       | <del></del>                             |                  |                       |
|            | <u>'</u>         |               |                      | ·               |                                       |                                         |                  | <del></del>           |
| Section    | 3                |               | <del></del>          |                 | RD OF CA                              | SING                                    |                  |                       |
| Dia<br>in. | Pounds<br>ft.    | Threa         | •••                  | pth<br>  Bottom | Feet                                  | Type Shoe                               | From             | erforations To        |
| 7          | 24 10            |               | 0                    | 112             | 112                                   | Plain                                   | 78               | 112                   |
|            |                  |               |                      |                 |                                       | . 10211                                 |                  | 13.2                  |
|            | <del> </del>     |               |                      |                 | <del> </del>                          | 1                                       |                  |                       |
|            |                  |               |                      |                 |                                       |                                         |                  |                       |
| Section    | Δ                |               | RECOR                | D OF MU         | DDING AN                              | ND CEMENTING                            | <u> </u>         | <u> </u>              |
|            | h in Feet        | Diame         | <del></del>          | <del></del>     | cks of                                | 02,,,2,,,,,,                            | <del> </del>     |                       |
| From       | To .             | Hole in       |                      |                 |                                       |                                         | Methods Used     | i                     |
|            |                  |               |                      |                 |                                       |                                         | <del></del>      |                       |
|            |                  |               | ·                    |                 |                                       |                                         |                  |                       |
|            |                  |               |                      |                 |                                       |                                         |                  |                       |
|            |                  |               |                      |                 |                                       | , , , , , , , , , , , , , , , , , , ,   |                  |                       |
|            |                  |               |                      | DI LICO         | ONIC DEC                              |                                         |                  |                       |
| Section    |                  |               |                      |                 | SING REC                              |                                         |                  |                       |
|            |                  | _             |                      |                 |                                       |                                         |                  | No                    |
|            |                  |               |                      |                 |                                       |                                         |                  |                       |
|            |                  |               |                      | oughage ı       |                                       |                                         |                  | e                     |
|            | g method         |               |                      |                 |                                       |                                         |                  | 19                    |
| Plugging   | g approved       | 1 by:         |                      |                 |                                       |                                         | s were placed    | as follows:           |
|            |                  | <del></del>   | Basin Sup            | ervisor         | No                                    | Depth of Pl                             | lug No           | of Sacks Used         |
|            |                  |               | <del></del> -        |                 | 7                                     |                                         |                  |                       |
|            | FOR US           | E OF STAT     | TE ENGINEER O        | NLY             | <del>  ,</del>                        |                                         |                  |                       |
| Date       | Received.        | 77 7          |                      | <u> </u>        |                                       | -                                       |                  |                       |
| Date       | · · ·            |               | 1059                 | . \             |                                       | -                                       |                  |                       |
| ,          | · /              | AM :          | ( - 1335 )           | Kt sirs         |                                       | <del></del>                             | <del>, ,!.</del> |                       |
|            | . 1              | \             | OFFICE V             | CR C            | · . <b>/</b>                          |                                         |                  | .,                    |
| File No    | 2-41             | 07000         | VIEW COURT           | _Use_d          | ainc.                                 | Locatio                                 | n No. 12 3       | 8.15.122              |

#### STATE ENGINEER OFFICE

#### WELL RECORD



| Section 1 | 1                   |                | (4) O                | or of wall                                   | 7            | E Bawton           |               |                                       |                                       |
|-----------|---------------------|----------------|----------------------|----------------------------------------------|--------------|--------------------|---------------|---------------------------------------|---------------------------------------|
|           |                     |                | Street an            | d Number                                     | 920          | Fast Gyps          | y             |                                       |                                       |
|           |                     | 1              |                      |                                              |              |                    |               |                                       | n M.                                  |
| \         | \ <del></del>       |                |                      |                                              |              |                    |               |                                       | d is located in th                    |
| ,         |                     |                | 1                    |                                              |              |                    |               |                                       | Rge. 38a                              |
| *         | <del>  </del>       |                |                      |                                              |              |                    |               |                                       | nse No.WD14                           |
| ]         |                     |                | 1 ' '                | •                                            | _            | 3 Сурву            |               |                                       |                                       |
|           |                     |                |                      |                                              |              |                    |               |                                       | n M.                                  |
|           |                     |                | Drilling             | was comm                                     | enced        | June-1             |               | Diate                                 | 1961                                  |
| Ĺ         |                     |                |                      |                                              |              |                    |               |                                       | 19 61                                 |
|           | Plat of 640         | •              | _                    | _                                            |              |                    |               |                                       |                                       |
|           |                     |                |                      |                                              |              | Total de           |               |                                       |                                       |
| State wl  | hether we           | ll is shall    | ow or artesian       | shall                                        | LOM          | Depth to wa        | ter ur        | on comple                             | tion 46                               |
| Section : | 2                   |                | PRII                 | NCIPAL W                                     | ATER-BEAT    | RING STRATA        |               | · · · · · · · · · · · · · · · · · · · |                                       |
| No.       | Depth i             | n Feet         | Thickness in<br>Feet |                                              | De           | escription of Wate | r-Beari       | ng Formatio                           | o <u>n</u>                            |
|           | From                | To :           |                      | <u> </u>                                     | <del></del>  |                    |               |                                       |                                       |
| 1         | 46                  | 70             | 24                   |                                              | waters       | and and lo         | 086 1         | rock                                  |                                       |
| 2         |                     |                |                      |                                              |              |                    |               |                                       |                                       |
| 3         |                     |                |                      |                                              |              |                    |               |                                       |                                       |
| 4         |                     |                |                      |                                              |              |                    |               |                                       | · · · · · · · · · · · · · · · · · · · |
| 5         |                     |                |                      |                                              |              |                    |               |                                       |                                       |
| Section : | 3                   |                |                      | RECOR                                        | RD OF CA     | SING 7             | inot          | urb.                                  | feet.                                 |
| Dia       | Pounds              | Threa          | ds De                | epth                                         |              | 1                  |               |                                       | rations                               |
| in.       | ft.                 | in             |                      | Bottom                                       | Feet         | Type Shoe          |               | From                                  | То                                    |
|           |                     |                |                      |                                              |              |                    |               |                                       |                                       |
|           |                     |                |                      |                                              |              |                    |               | -                                     |                                       |
|           |                     |                |                      | ·                                            |              |                    |               |                                       |                                       |
|           | <u> </u>            |                |                      | <u>                                     </u> | <u> </u>     |                    | <u> </u>      |                                       |                                       |
| Section 4 | 4                   |                | RECO                 | OF MU                                        | DÜNG AN      | ND CEMENTING       |               |                                       |                                       |
| Depth     | in Feet             | Dlame          |                      |                                              |              | <b>1</b>           | Moti          | ods Used                              |                                       |
| From      | То                  | Hole in        | in. Clay             | Cen                                          | ient         |                    | Men           | ious Oseu                             |                                       |
|           |                     | 7              |                      |                                              |              |                    |               |                                       |                                       |
|           |                     |                |                      |                                              |              | ·                  |               |                                       |                                       |
|           |                     | <u> </u>       |                      |                                              |              |                    |               |                                       |                                       |
|           | i                   |                |                      | !                                            |              |                    |               |                                       |                                       |
| Section 5 |                     |                | <b>k</b>             | PILICA                                       | SING REC     | OPD                |               |                                       |                                       |
|           |                     | . Contract     | -                    | -                                            |              |                    | τ.            | iaamaa Ma                             | *                                     |
|           |                     |                |                      |                                              |              |                    |               |                                       |                                       |
|           |                     |                |                      |                                              |              |                    |               |                                       |                                       |
|           |                     |                |                      |                                              |              |                    | -             |                                       |                                       |
|           |                     | ısed           | ;                    |                                              |              |                    |               |                                       | 19                                    |
| -ingging  | approved            | by:            |                      | •,                                           | <del> </del> | Cement Plu         | <del></del> - | e placed as                           | TOLIOWS:                              |
|           |                     | valut et e des | Basin Sur            | ervisor                                      | No           | Depth of P         | lug           | No. of                                | Sacks Used                            |
|           |                     |                | rainough i.          |                                              | ╼┱╌├──       | * 2                | -             | <del></del>                           |                                       |
|           | FOR USI             | OF STAT        | E SAGINEER C         | NLY                                          | .            |                    |               |                                       |                                       |
| Dota 1    | الدال تـ<br>حمدنومو | וווובנט טנ     | STATE ENG            | $\mathbf{N}^{1}$                             |              |                    |               | <del></del>                           |                                       |
| Date 1    | Secentifications.   | 8 NV SI        | 90V 1961             | Y                                            |              |                    |               | <del></del>                           |                                       |
|           |                     |                |                      |                                              |              | 1                  |               |                                       |                                       |
|           |                     |                | • *                  |                                              |              |                    |               |                                       |                                       |
| File No   |                     | 462            | 2                    | Use                                          | Dam          | Locatio            | n No.         | 19.38                                 | 15.422                                |

# Land Ball Fred Los

#### Section 1. GENERAL INFORMATION

| (A) Owner o<br>Street or<br>City and | f well Te Post Office A State Ho | ddrece ∓ e                               | O. DOX                                | 2096<br>o { | 3824         | 0                  | · · · · · · · · · · · · · · · · · · ·           | )wner's We | ell No.                         |                                |
|--------------------------------------|----------------------------------|------------------------------------------|---------------------------------------|-------------|--------------|--------------------|-------------------------------------------------|------------|---------------------------------|--------------------------------|
| Well was drille                      |                                  |                                          |                                       |             |              |                    | ited in the:                                    |            |                                 |                                |
|                                      |                                  |                                          |                                       |             |              |                    | p <u>    198   </u>                             | . Range    | 38E                             | N.M.P.M.                       |
| b. Tract                             | No. <b>H</b>                     | of Map No                                | ),                                    |             | of the       |                    |                                                 |            | •                               |                                |
| Subdi<br>S 8<br>d. X=                | vision, recorde<br>9057 E        | d in <u>Le</u><br>104 ft.,<br>_ feet, Y= | thence                                | N 0°1       | C            | ounty. Tl<br>E 416 | Gramde<br>nence S 60<br>ft., thencate System to | e N 8      | 416 ft.<br>9 <sup>0</sup> 57' W | ., thence<br>104 ft.<br>Zonein |
| -                                    |                                  |                                          |                                       |             |              |                    | License No                                      |            |                                 |                                |
| Address                              | P. O. B                          | ox 2096                                  | . Hobbs                               | . New       | Me:          | xico               | 88240                                           |            | <del></del>                     |                                |
| Drilling Began                       | 5/26/75                          | Com                                      | pleted5/                              | /31/75      | 5            | Type tool:         | s Spudder                                       | S          | ize of hole_                    | 8in.                           |
| Elevation of la                      | nd surface or                    |                                          |                                       |             | at well      | is                 | ft. Total d                                     | epth of we | 120                             | ft.                            |
| Completed wel                        | lis <b>XX</b> s                  |                                          | artesian.                             |             |              |                    | ater upon comple                                | tion of we | ell <u>44</u>                   | ft.                            |
|                                      | in Feet                          | Thickness<br>in Feet                     | s                                     |             |              |                    | g Formation                                     |            | Estimated `gallons per n        |                                |
| From<br>49                           | 120                              | 71                                       | Pod                                   |             |              | th sand            |                                                 |            |                                 |                                |
|                                      | 120                              | /1                                       | пео                                   |             |              |                    | l rock str                                      | ingers     | 54;                             | 5                              |
|                                      |                                  |                                          |                                       |             |              | <del></del>        |                                                 |            | _ <del></del>                   |                                |
|                                      |                                  |                                          |                                       |             |              | <del></del>        |                                                 | _          |                                 |                                |
| L                                    |                                  | 1                                        | Section                               | n 3 REC     | ORDO         | OF CASINO          | <del></del>                                     |            |                                 |                                |
| Diameter<br>(inches)                 | Pounds<br>per foot               | Threads per in.                          | Depth                                 | in Feet     |              | Length<br>(feet)   | Type of                                         | Shoe       |                                 | ations                         |
| 6 5/8                                | perioot                          | per III.                                 | Тор                                   | Botto       |              |                    |                                                 |            | From                            | To                             |
| 0 3/0                                |                                  | 1                                        | <u>Q</u>                              | 120         |              | 120                |                                                 |            | 90                              | 120                            |
|                                      |                                  |                                          |                                       |             |              |                    |                                                 |            |                                 |                                |
|                                      |                                  |                                          | 4 PECO                                | D 05 14     |              | NC AND C           | EMENTING                                        |            | L                               |                                |
|                                      | in Feet                          | Hole                                     | ion 4. RECOI                          | s s         | Cu           | bic Feet.          |                                                 | ethod of   | Placement                       |                                |
| From                                 | То                               | Diameter                                 | of M                                  |             | OI           | Cement             |                                                 |            |                                 |                                |
| 38                                   | 120                              | 8                                        | 6                                     |             |              |                    | Gel mixe                                        | d with     | water                           |                                |
|                                      |                                  |                                          | +                                     |             |              |                    |                                                 |            |                                 |                                |
| L                                    |                                  | <u> </u>                                 | <u> </u>                              |             |              |                    | L                                               |            | ·                               |                                |
|                                      |                                  |                                          |                                       | n 5. PLU    | GGIN         | G RECORD           | 1                                               |            |                                 | J,                             |
| Plugging Contra<br>Address           |                                  |                                          | · · · · · · · · · · · · · · · · · · · | · · · · · · | <del>-</del> |                    | Depti                                           | in Feet    | Cu                              | bic Feet                       |
| Plugging Metho<br>Date Well Plugg    |                                  |                                          |                                       | <del></del> |              |                    | Top                                             | Bott       | om of                           | Cement                         |
| Plugging approv                      | ved by:                          |                                          |                                       | <u> </u>    |              |                    |                                                 |            |                                 |                                |
|                                      |                                  | State Eng                                | gineer Represe                        | entative    |              | 4                  |                                                 | 1 .5 -     | 00 15                           | (2.5.5                         |
| Date Received                        |                                  |                                          | FOR USE                               | OF STAT     | re en        | GINEER O           | NLY                                             | 11.3       | is. 15                          | .42312                         |
|                                      |                                  |                                          |                                       |             |              |                    | FW                                              | _          |                                 |                                |
| File No                              | 1.7379                           |                                          |                                       | Use         | 1)(          | )n )               | Location No.                                    | 19.36      | 3.15.42                         | 23/2                           |

| Section : | 1                      |               |                | (A) Own                                      | er of well                              | Tone                                    | ny Phar                | 4            |                                                    |           |                                        |
|-----------|------------------------|---------------|----------------|----------------------------------------------|-----------------------------------------|-----------------------------------------|------------------------|--------------|----------------------------------------------------|-----------|----------------------------------------|
|           |                        |               |                |                                              |                                         |                                         | ny rhar<br>313 East Ma |              |                                                    |           |                                        |
|           |                        | -             |                |                                              |                                         |                                         |                        |              |                                                    |           |                                        |
| 5         | 1                      |               |                |                                              |                                         |                                         | mit No. L-4            |              |                                                    |           |                                        |
| `         |                        |               |                |                                              | 4                                       | 4                                       | 4 of Section           | 239          | Twp. 49                                            | Ree       |                                        |
|           | ++                     |               |                | (B) Drill                                    | ing Contr                               | actor                                   | E Barton               | 5            | Licen                                              | se No.    | ************************************** |
| ]         | 1                      | [             |                |                                              |                                         |                                         | t 42                   |              |                                                    |           | MUTH                                   |
|           | <del></del>            |               | $\dashv$       | City                                         |                                         |                                         | hobbs                  |              | _ State                                            | M.        |                                        |
|           | ] [                    |               | - 1            |                                              |                                         |                                         | Nov-4-                 |              |                                                    |           |                                        |
| L         | <u> </u>               |               |                |                                              |                                         |                                         | Nov 5-                 |              |                                                    |           |                                        |
| •         | Plat of 640            | · · · · · · · |                |                                              |                                         |                                         | •                      |              |                                                    |           | •                                      |
|           |                        |               |                |                                              |                                         |                                         | Total de               |              |                                                    |           |                                        |
| State w   | hether we              | ell is shall  | ow o           | r artesian_                                  | Shallo                                  | /VI                                     | Depth to wa            | ater ur      | pon complet                                        | ion4      | 8 feet                                 |
| Section : | <u> </u>               |               |                |                                              | ICIPAL W/                               | ATER-BEAF                               | RING STRATA            |              | ·                                                  | ···       |                                        |
| No.       | Depth From             | in Feet       | Thi            | ickness in<br>Feet                           | l. ,                                    | De<br>. Or                              | escription of Wate     | er-Beari     | ing Formation                                      | l         |                                        |
| 1         | <u> </u>               | <del> </del>  | -              |                                              |                                         |                                         |                        |              |                                                    |           |                                        |
| 2         |                        | 2             | <u></u>        | 2                                            | - da                                    | rk 801                                  | 1                      |              |                                                    |           |                                        |
| 3         | 48                     | 65            |                | 17                                           | wat                                     | Anand                                   |                        |              |                                                    |           | <del></del>                            |
| 4         |                        |               | 1              |                                              |                                         |                                         |                        |              |                                                    |           |                                        |
| 5         | _90                    | 100           |                | _10                                          | Water                                   | ersanu                                  |                        |              |                                                    |           |                                        |
| Section : | 3                      | ,             | <del>'</del>   |                                              | RECOF                                   | RD OF CA                                | SING                   |              |                                                    |           |                                        |
| Dia       | Pounds                 | s Threa       | -ds            | Der                                          | pth                                     | Feet                                    | M Shoe                 | 1            | Perfor                                             | ations    |                                        |
| in.       | ft.                    | In            |                | Тор                                          | Bottom                                  | Feet                                    | Type Shoe              |              | From                                               |           | То                                     |
| 7         |                        |               | 0 8 8 For Curb |                                              |                                         |                                         |                        | r Curb       |                                                    |           |                                        |
|           |                        |               |                | <u>                                     </u> | ļ                                       |                                         |                        |              |                                                    |           |                                        |
|           | <del></del>            |               |                |                                              |                                         | <b> </b>                                |                        | <del> </del> |                                                    |           |                                        |
|           |                        |               |                |                                              | <u> </u>                                | <u> </u>                                |                        | 1            |                                                    | ·         |                                        |
| Section 4 | 4                      | <del></del>   |                | RECOR                                        | D OF MUI                                | DDING AI                                | ND CEMENTING           |              |                                                    |           | - <del></del>                          |
|           | h in Feet              | Diame         |                | Tons                                         |                                         | acks of                                 |                        | :<br>Met     | hods Used                                          |           |                                        |
| From      | То                     | Hole in       | in.            | Clay                                         | Cem                                     | nent                                    |                        | <b>A</b>     |                                                    |           |                                        |
|           | ]                      | 7             | !              | · .                                          |                                         |                                         |                        |              |                                                    |           |                                        |
|           |                        |               |                |                                              |                                         |                                         |                        |              |                                                    |           |                                        |
|           |                        |               |                |                                              |                                         |                                         |                        |              |                                                    |           |                                        |
|           | <u> </u>               |               | }              | 1                                            |                                         |                                         |                        |              |                                                    | ··        | ·                                      |
| Section 5 | Ę                      |               |                |                                              | PI UG(                                  | SING REC                                | חפטי                   |              |                                                    |           | .*                                     |
|           | •                      | - Contrac     | ٠~-            |                                              | -                                       |                                         |                        | 7            | Fisance No.                                        |           |                                        |
|           |                        |               |                |                                              |                                         |                                         |                        |              |                                                    |           |                                        |
|           |                        |               |                |                                              |                                         | •                                       | Ту                     |              |                                                    |           |                                        |
|           | -                      |               |                | ons of Ro                                    |                                         |                                         | Date Plu               |              |                                                    |           |                                        |
|           | g metnod<br>g approved |               |                |                                              | *************************************** | *************************************** | Cement Plu             |              |                                                    |           |                                        |
| Inggmie   | , approve              | ı by.         |                |                                              |                                         | Γ                                       | <del></del>            |              | e placed as                                        | 10110 *** | 5:                                     |
|           |                        |               |                | Basin Supe                                   | ervisor                                 | No                                      | o. Depth of F          | Plug<br>To   | No. of                                             | Sacks 1   | Jsed                                   |
|           |                        | 7,3,11        | 1.             | lanio (J.u.                                  |                                         | 7                                       | +                      |              | <del> </del>                                       |           | <del></del>                            |
|           | _                      |               |                | SCHEER OF                                    | // //                                   | -                                       | <del></del>            |              | <del> </del>                                       |           |                                        |
| Data '    |                        |               | יואובנ         | OMB BIATS                                    | 5 Lg                                    | 1                                       |                        |              | <del> </del>                                       |           |                                        |
| Date .    | Received.              | 72:8 HV       | 58             | 300 NOA                                      | J-#                                     |                                         | 1                      |              |                                                    |           |                                        |
|           |                        |               |                | Non Jul                                      |                                         | <u> </u>                                |                        |              | <u></u>                                            |           |                                        |
|           | . ,                    |               |                |                                              | $\alpha$                                | , J                                     |                        |              | , <del>- , , , , , , , , , , , , , , , , , ,</del> |           | <del></del>                            |
| rile No   | 1-43                   | 534           |                |                                              | IIse Lo                                 | m 85                                    | tock Location          | on No        | 19.38.                                             | 154       | 124                                    |
| CHE TIC   | /                      |               |                |                                              |                                         | /                                       |                        |              | •                                                  |           | . /                                    |

# EIEID ENGR. LOG

| Section      | 1                                                |                  | (4) 0           | <b>f</b> 11     | HVI             | urm & Heales                                     | POM 180                                  |                                                 |
|--------------|--------------------------------------------------|------------------|-----------------|-----------------|-----------------|--------------------------------------------------|------------------------------------------|-------------------------------------------------|
| Г            |                                                  |                  |                 |                 |                 |                                                  | * \\ d \ g \ \ \ d \ \ \ \ \ \ \ \ \ \ \ |                                                 |
|              |                                                  |                  | Street and      | number.<br>"Oli | N P. E. E.      | 102 1 (5)                                        | ? 3 04-4-                                |                                                 |
| ]            | _ }-                                             |                  |                 |                 |                 |                                                  |                                          |                                                 |
|              |                                                  |                  |                 |                 |                 |                                                  |                                          | d is located in the<br>Rge. 38                  |
| }            | 1. 1                                             |                  | (B) Drill       | ing Contra      | actor           | ABBOTT BROS                                      | Lice:                                    | nse No.MD-46                                    |
| 1            |                                                  |                  | Street and      | i Number.       | BOX             | 637                                              |                                          |                                                 |
| #5           | 017 16                                           | -84-             | City            | нс ві           | <u>15. 11.1</u> |                                                  | State                                    |                                                 |
|              |                                                  |                  |                 |                 |                 |                                                  |                                          | 19                                              |
|              |                                                  |                  |                 |                 |                 |                                                  |                                          | 19                                              |
|              | Plat of 640                                      |                  |                 |                 | · .             |                                                  |                                          |                                                 |
| Elevation    | on at top o                                      | f casing i       | n feet above se | a level         |                 | Total de                                         | pth of well 127                          | <u>; •                                     </u> |
|              |                                                  |                  |                 |                 |                 |                                                  |                                          | tion50                                          |
| Section      | 2                                                |                  | PRIN            | ICIPAL WA       | ATER-BEAL       | RING STRATA                                      |                                          |                                                 |
| No.          | Depth i                                          |                  | Thickness in    | -               | De              | escription of Water                              | r-Bearing Formatio                       | n                                               |
|              | From                                             | То               | Feet            |                 |                 |                                                  | ····                                     |                                                 |
| 1            | . 40                                             | 123              | 83              | water           | send            |                                                  |                                          |                                                 |
| 2            |                                                  |                  |                 |                 |                 | _                                                |                                          | ··                                              |
| 3            |                                                  |                  |                 |                 |                 |                                                  |                                          |                                                 |
| 4            |                                                  |                  |                 |                 |                 |                                                  |                                          |                                                 |
| 5            |                                                  |                  |                 |                 |                 |                                                  |                                          | <del></del>                                     |
|              | !1                                               |                  | <u> </u>        | <u> </u>        |                 |                                                  | <del></del>                              | <del></del>                                     |
| Section      | 3                                                |                  |                 |                 | D OF CA         | SING                                             |                                          |                                                 |
| Dia<br>in.   | Pounds<br>ft.                                    | Threa            | ds De           | pth<br>  Bottom | Feet            | Type Shoe                                        | Perfo<br>From                            | rations To                                      |
| <del></del>  | 23                                               | 8                | 1               | 123             | 123             | none                                             |                                          | <del> </del>                                    |
|              | <del>                                     </del> |                  |                 |                 | 127             | 110118                                           | 50                                       | 123                                             |
|              |                                                  |                  |                 |                 |                 | -                                                |                                          | <del> </del>                                    |
|              | -                                                |                  |                 |                 |                 | <del>                                     </del> | <u></u>                                  | <del> </del>                                    |
|              | <del>'</del>                                     | <del>.</del>     |                 |                 |                 |                                                  | ,                                        |                                                 |
| Section      |                                                  | <del></del>      | <del></del>     | <del></del>     |                 | ID CEMENTING                                     |                                          | ······································          |
| Dept<br>From | th in Feet                                       | Diame<br>Hole in |                 | No. Sa<br>Cem   |                 |                                                  | Methods Used                             |                                                 |
| From         | 10                                               | - 11010 11       | CIE,            |                 | lent            |                                                  | <del></del>                              | <del></del>                                     |
|              |                                                  | _                | <del>-</del>    |                 |                 |                                                  |                                          |                                                 |
|              | _                                                |                  |                 | <del></del>     |                 | ,                                                |                                          |                                                 |
|              |                                                  |                  |                 |                 |                 |                                                  | ·                                        |                                                 |
|              |                                                  | <u> </u>         |                 |                 | 1               | <u>`</u>                                         |                                          |                                                 |
| Section      | 5                                                |                  |                 | PLUGG           | ING REC         | ORD                                              |                                          |                                                 |
| Name o       | f Plugging                                       | Contract         | Or              |                 |                 |                                                  | License No.                              | ***************************************         |
|              |                                                  |                  |                 |                 |                 |                                                  | State                                    |                                                 |
|              |                                                  |                  |                 |                 |                 |                                                  |                                          |                                                 |
|              | g method u                                       |                  |                 | ougnage u       |                 |                                                  |                                          |                                                 |
|              |                                                  |                  |                 |                 |                 |                                                  |                                          | 19                                              |
| Piugginį     | g approved                                       | by:              |                 |                 | ·               | Cement Plug                                      | s were placed as                         | follows:                                        |
| -            |                                                  |                  | Basin Sup       | ervisor         | No              | Depth of Pl                                      | No. of                                   | Sacks Used                                      |
| ·. ·         | FOR USE                                          | OF STÁT          | E ENGINEER O    | NLY             | 7               |                                                  |                                          |                                                 |
|              | 7011 001                                         | , 01, 01,11      |                 |                 |                 |                                                  |                                          |                                                 |
| Date         | Received                                         | ·                |                 |                 |                 | 1                                                |                                          |                                                 |
|              |                                                  |                  |                 |                 |                 |                                                  |                                          |                                                 |
|              |                                                  |                  | ( )             | r <sup>i</sup>  | <u> </u>        | 1                                                |                                          |                                                 |
|              | 1 /                                              | -7 "             | <b>-</b> 2      | .~              | J               |                                                  |                                          | 424233                                          |
| File No      | , L-6                                            | 12               | >               | _Use            | 020             | Location                                         | n No.19-38                               | 15-4544                                         |

## Section 1. GENERAL INFORMATION

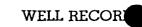
| (A) Owner of                        | of well                 | Jim<br>Idress P.O. | Spradl<br>Box 2 | ey<br>187                                                 | آ جو <b>ي</b> ائي .   | Owne                                  | er's Well No     |                    |  |
|-------------------------------------|-------------------------|--------------------|-----------------|-----------------------------------------------------------|-----------------------|---------------------------------------|------------------|--------------------|--|
| City and                            | State                   | Hobb               | os, N.M         | . 88240                                                   | 2 25 34 30            | er marsh j                            | e signer i sa sa | •                  |  |
|                                     | d under Permit          | NE }               |                 |                                                           |                       |                                       |                  |                    |  |
|                                     |                         |                    |                 |                                                           | -                     | 19S Rar                               | J                |                    |  |
|                                     |                         |                    |                 |                                                           | •                     | · · · · · · · · · · · · · · · · · · · |                  |                    |  |
|                                     | No<br>ivision, recorded |                    |                 |                                                           |                       |                                       |                  |                    |  |
|                                     |                         |                    |                 |                                                           |                       | System                                |                  |                    |  |
| B) Drilling                         | Contractor              | Alan               | Eades           |                                                           |                       | License No                            | WD-104           | 1                  |  |
| Address                             |                         | 1200               | E. Be           | nder. Ho                                                  | bbs. N.M              | 88240                                 |                  |                    |  |
| Orilling Began                      | 4-13-93                 | Comp               | leted 4         | -13-93                                                    | M.⊖<br>_ Type tools _ | rt star<br>-Rotary                    | Size of hole.    | 8ir                |  |
| Elevation of la                     | and surface or _        |                    | ·               | at we                                                     | 11 is                 | ft. Total depth                       | of well1         | 3.3 fi             |  |
| Completed we                        | ill is 🗙 sh             |                    |                 |                                                           | •                     | r upon completion                     | of well 4        | f                  |  |
| Depth                               | in Feet                 | Sect<br>Thickness  | ion 2. PRIN     | CIPAL WATE                                                | R-BEARING S           | TRATA                                 | Estimated        | Yield              |  |
| From                                | То                      | in Feet            | 1               | Description of                                            | Water-Bearing         | Formation                             | (gallons per     |                    |  |
| 44                                  | 133                     | 89                 |                 | Sand & Sandstone Stringers 35<br>sandstone, Sand & Gravei |                       |                                       |                  |                    |  |
|                                     |                         |                    |                 |                                                           |                       |                                       |                  |                    |  |
|                                     |                         |                    |                 |                                                           | · ·                   |                                       |                  |                    |  |
|                                     |                         |                    | Sectio          | n 3. RECORD                                               | OF CASING             |                                       |                  |                    |  |
| Diameter (inches)                   | Pounds<br>per foot      | Threads            | Depth<br>Top    | in Feet<br>Bottom                                         | Length<br>(feet)      | Type of Sho                           | e Perfo          | To                 |  |
| 5 3/4                               | 160psi                  |                    |                 |                                                           | 133                   |                                       | 113              |                    |  |
|                                     |                         |                    |                 |                                                           |                       | · · · · · · · · · · · · · · · · · · · |                  |                    |  |
|                                     |                         | Séctio             | n 4 RECO        | RD OF MUDD                                                | ING AND CEN           | ENTING                                |                  | <u> </u>           |  |
| Dep th<br>From                      | in Feet                 | Hole<br>Diameter   | Sack<br>of M    | cs Ci                                                     | ibic Feet<br>Cement   |                                       | d of Placement   |                    |  |
|                                     |                         |                    |                 |                                                           |                       |                                       |                  |                    |  |
|                                     |                         |                    |                 |                                                           |                       |                                       |                  |                    |  |
|                                     |                         |                    |                 |                                                           |                       |                                       |                  |                    |  |
|                                     |                         |                    | Sectio          | n 5. PLUGGIN                                              | IG RECORD             |                                       |                  |                    |  |
| lugging Contr                       | actor                   | <del></del>        |                 | · · · · · · · · · · · · · · · · · · ·                     |                       |                                       |                  |                    |  |
|                                     | od                      |                    |                 |                                                           | No.                   | Depth in I                            |                  | bic Feet<br>Cement |  |
|                                     | ged                     |                    |                 | ·                                                         |                       | Top                                   | Bottom 0         | Cement             |  |
| lugging appro                       | wed by:                 |                    |                 |                                                           | 2                     |                                       |                  |                    |  |
|                                     |                         | State Engir        | neer Repres     | entative                                                  | 3 4                   |                                       |                  |                    |  |
| Date Received                       |                         | 202                | FOR USE         | OF STATE E                                                | NGINEER ON            | LY .                                  |                  |                    |  |
| *********************************** | May 7, 19               | 393                |                 | Quad                                                      |                       | FWL _                                 | FSI              |                    |  |
| File No                             | L-10,322                | 2                  |                 | Use                                                       | D & S                 | Location No                           | 19.38.15.424     | 24                 |  |

# WELL RECORD

| Section  | 1            |             |        | (A) Owne      | r of well                                        | How            | ulen . Fl                                    | mentagn             |                                       |
|----------|--------------|-------------|--------|---------------|--------------------------------------------------|----------------|----------------------------------------------|---------------------|---------------------------------------|
|          |              |             |        | C44           | NT                                               |                |                                              |                     |                                       |
| 1        | 1            | 1           | 1      | City          | 1144110012                                       | 77             | 1. 1. 1. 2.                                  | State 2             | 171                                   |
|          | -            |             |        | Well was      | drilled ur                                       | der Perm       | it No 562                                    | - 9 and             | is located in th                      |
|          | [            |             |        | JE 1/2        | 7) E 1/                                          | JE 1           | of Section 15                                | Two 19              | I is located in the Rge. 38 E         |
| <b> </b> |              |             |        | (B) Drilli    | na Contr                                         | actor J        | BARTON                                       | V Licer             | NUD14                                 |
|          |              |             |        | Stroot and    | Number                                           | Fry 4          | 4                                            | Licer<br>State      | ise No                                |
|          |              |             |        | C:+           | number.                                          | .V             | Halla.                                       | 54-4- 6             | <del>71 - 77 1</del>                  |
| 1        |              | C)          | - (    | Daillian an   |                                                  |                | <sub></sub>                                  | State               | 1954                                  |
| 1        |              |             | - [    | Drilling w    | as comm                                          | enced          | - 6 -                                        | State               | 19,4                                  |
|          | Plat of 640  | acres)      |        | Drilling w    | as comple                                        | eted           |                                              |                     | 19                                    |
|          |              |             | in foe | t ahova ses   | level                                            |                | oh letoT                                     | oth of wall 14      | 2                                     |
| Stote w  | thether w    | ol tashig . | low o  | r artesian .  | Sint                                             | المالي         | Denth to we                                  | oth of well 14.     | tion 52                               |
| Section  |              | en is shar  | IOW O  |               |                                                  |                | NG STRATA                                    | ter upon comple     | tion                                  |
|          | Depth        | in Feet     | Thi    | ckness in     |                                                  | Don            | mintles of Weter                             | - Bossing Formation |                                       |
| No.      | From         | To          |        | Feet          |                                                  |                | cription of Water                            | -Bearing Formatio   | a ·                                   |
| 1        | 52           | 68          | 1      | 16            |                                                  | rival          | erland                                       |                     |                                       |
| - 2      | 41           | 105         | ╂      | 15            |                                                  | -              |                                              |                     |                                       |
|          | <u> </u>     | l'          |        |               |                                                  | 1117           | restand                                      |                     |                                       |
| 3        | 132          | 138         | 1      | 6             |                                                  | WILL           | WANT                                         |                     |                                       |
| 4        |              |             |        |               |                                                  |                |                                              |                     |                                       |
| 5        |              |             |        |               |                                                  |                |                                              |                     |                                       |
| Section  | 3            |             |        |               | RECOR                                            | D OF CAS       | ING                                          | ,                   |                                       |
| Dia      | Pound        | s Thre      | ads    | Dep           | th                                               | Feet           | Type Shoe                                    | Perfo               | rations                               |
| in.      | ft.          | in          | 2. 2   | Top           | Bottom                                           |                | 1                                            | From                | То                                    |
| 6 1/2    | 11           | We          | હિલ્લ  | D             | 142                                              | 142            | plane                                        | 100                 | 142                                   |
|          |              |             |        |               |                                                  |                |                                              |                     |                                       |
|          |              |             |        |               |                                                  |                |                                              |                     |                                       |
|          |              |             |        |               |                                                  |                |                                              |                     |                                       |
| Section  | 4            |             | •      | RECORE        | OF MUD                                           | DING AN        | CEMENTING                                    |                     |                                       |
| Dept     | th in Feet   | Diam        |        | Tons          | No. Sac                                          |                |                                              | Methods Used        |                                       |
| From     | To           | Hole i      | n in.  | Clay          | Cem                                              | ent            |                                              | Methods Osed        |                                       |
|          |              | 7           |        |               |                                                  |                |                                              |                     |                                       |
|          |              |             |        |               |                                                  |                |                                              |                     |                                       |
|          | <u> </u>     |             |        | - <del></del> | <del>                                     </del> |                |                                              |                     |                                       |
|          | <del> </del> |             |        |               | 1                                                | 7              |                                              |                     | <del></del>                           |
|          |              | ·           |        |               |                                                  | <del>- (</del> |                                              |                     |                                       |
| Section  |              |             |        |               |                                                  | ING/RECC       |                                              | ,                   |                                       |
| Name: of | f Pluggin    | g Contrac   | tor    |               | 1 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1           |                |                                              | License No.         | · · · · · · · · · · · · · · · · · · · |
| Street a | nd Numb      | er          |        |               | <u> </u>                                         | City           | <u> </u>                                     | State               |                                       |
|          |              |             |        |               |                                                  |                | . 1                                          | oe of roughage      |                                       |
|          |              | used        |        |               | •                                                |                | •                                            | gged                |                                       |
|          | g approve    |             |        |               | 5                                                |                |                                              | s were placed as    |                                       |
|          | g approve    | u 5).       |        | ٠.            |                                                  |                |                                              |                     | 10H0W3.                               |
|          |              | XH.         | 13.1   | Basin Supe    | rvisor                                           | No.            | From T                                       | No. of              | Sacks Used                            |
|          | <del></del>  | بيدن        | TO V   | Control       |                                                  | <b>-</b> 7     | 110111                                       | <del></del>         |                                       |
|          | FOR US       | ATS TO ES   | re en  | GINEER ON     | ứχ.                                              |                | <del>  </del>                                |                     |                                       |
|          |              |             |        |               | ٠/                                               |                | <u> </u>                                     |                     |                                       |
| Date `   | Received     | 8:52        | W 6    | 1-700-591     | 61                                               |                |                                              |                     |                                       |
|          | : *          |             | •      |               | •                                                |                | <u>                                     </u> |                     |                                       |
|          |              |             |        |               |                                                  |                |                                              |                     |                                       |
|          | 1            | <i>-,</i>   |        |               | $\mathcal{C}$                                    | ,              |                                              | •                   |                                       |
| File No  | o <i>L</i>   | 1623        |        |               | .Use                                             | d              | Locatio                                      | n No. 19.31         | -11 42 K                              |

# WELL RECORD

| Name of permittee, M. L. Binghess  Street or P. O. 1207 East Park City and State Hobbs New Mexico  1. Well location and description: The Children's Property of the Color of Section 15. Township 192 Range 360. Elevation of the casing above sees level. Feet; diameter of hole, G. Inches; total depth. 83. depth to water upon completion, 49 feet; drilling was commenced 11-29. It and completed 11-30. Address Doy. 42 Hobbs N. M. Driller's License No. 4014.  2. Principal Water-bearing Strate:    Popth in Feet   Thickness   Description of Weise-bearing Fermation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date of Receipt                         | December 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | . 1954                                  |                                               |                   | Permit No                               | L-2689                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------|
| 1. Well location and description: The short 192 well is located in \$36 %, \$30    B8 % of Section 15 Township 192 Range 380 Elevation of the casing above sea level, feet; diameter of hole, \$6    depth to water upon completion, \$49    feet; diameter of hole, \$6    Inches; total depth, \$3    depth to water upon completion, \$49    feet; diameter of hole, \$6    Inches; total depth, \$3    depth to water upon completion, \$49    feet; diameter of hole, \$6    Inches; total depth, \$83    Inches; total depth, \$8 | Name of permit                          | <sup>tee,</sup> <del>K L Bi</del> ngha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                                               | datus             | \                                       |                                         |
| 1. Well location and description: The short 192 well is located in \$36 %, \$30    B8 % of Section 15 Township 192 Range 380 Elevation of the casing above sea level, feet; diameter of hole, \$6    depth to water upon completion, \$49    feet; diameter of hole, \$6    Inches; total depth, \$3    depth to water upon completion, \$49    feet; diameter of hole, \$6    Inches; total depth, \$3    depth to water upon completion, \$49    feet; diameter of hole, \$6    Inches; total depth, \$83    Inches; total depth, \$8 | Street or P. O                          | 1207 East Par                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <del></del>                             | , City and S                                  | tateHobbs         | New Me                                  | x100                                    |
| ES 4 of Section 15 Township 192 Range 388 Elevation of the casing above sea level.  Set; diameter of hole. G inches; total depth. 83 depth to water upon completion. 49 feet; drilling was commenced 11-29 In and completed 11-30 Address Doy 42 Hobbs N M. Driller's License No. WD14.  2. Principal Water-bearing Strata:  Depth in Feet Thicmes Description of Water-bearing Formation 70 No. 1 9 60 11 light brown vaters and No. 2 No. 3 No. 4 No. 5 No. 4 No. 5  Saling Records Threads Doyle of Course of large 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 10 In labels 1974 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of the Principal Water-bearing Formation 1975 of                                                                     |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   | 4                                       |                                         |
| casing above see level, feet; diameter of hole, 6 inches; total depth, 83 depth to water upon completion, 49 feet; disling was commenced 11-29 1 and completed 11-30 1954; name of drilling contractor 2 Berton 2 Berton 2 Berton 2 Berton 2 Berton 3 Berton 3 Berton 3 Berton 3 Berton 4 Berton 4 Berton 4 Berton 4 Berton 5 Berton 5 Berton 6 Berton 6 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 8 Berton 7 Berton 8 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7 Berton 7                                                                      | i, wen location and                     | (an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | anow of Artesian                        | 97                                            |                   |                                         | . 20                                    |
| depth to water upon completion, 49 feet; drilling was commenced 11-29 1  and completed 11-30 1854; name of drilling contractor J. Barten  Address Box 4:2 Hobbs N. M., ; Driller's License No. 4D14.  2. Principal Water-bearing Strata:  Depth in Feet  To Thickness Description of Water-bearing Formation  No. 1  No. 2  68  83  15  brown Waterfamed  No. 5  No. 5  To During Record (Milling was commenced 11-29 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         | of Section15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | , Township                              | 19e                                           | Range 380         |                                         | Cievation of                            |
| depth to water upon completion, 49 feet; drilling was commenced 11-29 1  and completed 11-30 1854; name of drilling contractor J. Barten  Address Box 4:2 Hobbs N. M., ; Driller's License No. 4D14.  2. Principal Water-bearing Strata:  Depth in Feet  To Thickness Description of Water-bearing Formation  No. 1  No. 2  68  83  15  brown Waterfamed  No. 5  No. 5  To During Record (Milling was commenced 11-29 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | casing above se                         | a level,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | feet;, diame                            | ter of hole,                                  | jinche            | s; total deptl                          | h, <mark>83</mark>                      |
| and completed 11-30 1954; name of drilling contractor L. Berton Address Box 42 Robbs N. M., Driller's License No. WD14.  2. Principal Water-bearing Strata:    Despit in Feet   Thickness   Description of Water-bearing Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   |                                         |                                         |
| 2. Principal Water-bearing Strata:    Depth to Feet   Thickness   Description of Water-bearing Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   |                                         |                                         |
| Depth in Feet Thickness Description of Water-bearing Fermation  No. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | and completed                           | 11-30-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | , 19.5.4.;                              | name of drilli                                | ng contractor     |                                         | rton                                    |
| Depth in Feet   Thickness   Description of Water-bearing Fermation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         | ; Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ox-42-Ro                                | bbs-N-W.                                      | ; Driller         | s License No                            |                                         |
| No. 1  No. 2  68  83  15  Brown wateranus  No. 4  No. 5  Claiming Records Threads Depth of Cartage or Library Period To Promise Transact Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promise To Promis                                                                     | 2. Principal Water-                     | bearing Strata:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               | :                 |                                         |                                         |
| No. 2  No. 2  83  15 brown watersami  No. 4  No. 5  Casing Records grade Threads Doub of Casing of Line Press of Type of Since Press  To In incides Press of Ourb  7  17 Diameter Type Transami Threads To Potton, Casing Type of Since Press  7  18 for purpose of Ourb  4. If above construction replaces old well to be abandoned, give location:  A. If above construction Township Range ; name and address of plugging contract date of plugging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Dep                                     | th in Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Thickness                               |                                               | Description of Wa | ter-bearing For                         | mation                                  |
| No. 2  68  83  15 brown watershull  No. 5  Casing Record  Casing Record  Township  Township  A. If above construction replaces old well to be abandoned, give location:  of Section  Township  Range  ; name and address of plugging contract  date of plugging  19; describe how well was plugged:  DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         | То                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         | <u>, , , , , , , , , , , , , , , , , , , </u> | <u> </u>          | <del></del>                             |                                         |
| Casing Records  Casing Records  Casing Records  Threads Double of Casing or Line From Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Proposition Prop                                                                     |                                         | -60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         | light b                                       | rown wate         | rsand                                   | <u>:</u>                                |
| Casing Record  Casing Record  Total Property Country  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Total Short  Tot                                                                     | No. 2                                   | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15_b                                    | rown wate                                     |                   |                                         |                                         |
| Casing Record  Threads Depth of Casing of Line life of the Promition To Bottom, Dating To Promition To Bottom, Dating To Purpose of ourb  1. If above construction replaces old well to be abandoned, give location:  4. If above construction replaces old well to be abandoned, give location:  5. Tor purpose of ourb  A life above construction replaces old well to be abandoned, give location:  6. If above construction replaces old well to be abandoned, give location:  7. A life above construction replaces old well to be abandoned, give location:  8. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abandoned, give location:  9. If above construction replaces old well to be abando                                                                     | No. 3                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                       | •                                             |                   | •                                       | 3                                       |
| Casing Record  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Per                                                                     | No. 4                                   | 41%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                                               |                   |                                         |                                         |
| Casing Record  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Perforation  Per                                                                     | No. 5                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   | <del></del>                             | <del></del>                             |
| Dianetes residents Threads Depth of Casins or Line Peer of The To Bottom, Chasins The or Bottom To Bottom, Chasins The or Bottom To To To To To To To To To To To To To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -0.5                                    | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |                                         |                                               | <del></del>       |                                         |                                         |
| 4. If above construction replaces old well to be abandoned, give location:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | in inabes per i                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Bottom,                                 |                                               |                   | MALE PARTY.                             | the security of                         |
| of Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 77                                      | <del>0</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5                                       | 5                                             | - for pur         | poseof-                                 | -ourb                                   |
| of Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ·····                                   |                                               |                   | *************************************** |                                         |
| of Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ······································  |                                               |                   | ******                                  |                                         |
| of Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | *************************************** |                                               |                   | ****** ******************************** | ······································  |
| of Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | w                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | *************************************** |                                               |                   |                                         |                                         |
| of Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   |                                         |                                         |
| date of plugging 19; describe how well was plugged:  DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4. If above construc                    | tion replaces old weil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | to be abando                            | oned, give loca                               | ation:            | 4,                                      |                                         |
| date of plugging 19; describe how well was plugged:  DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | of Section                              | , Township                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | , Rang                                  | }е                                            | ; name and a      | ddress of pl                            | ugging contri                           |
| date of plugging 19; describe how well was plugged:  DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   |                                         |                                         |
| date of plugging 19; describe how well was plugged:  DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               | ,                 |                                         | *************************************** |
| DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   |                                         |                                         |
| DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | date of plugging                        | ***************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19.                                     | ; describe l                                  | how well was pl   | ugged:                                  | *************************************** |
| DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *************************************** |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ٠.                                      |                                               |                   |                                         |                                         |
| DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         | ***********************                       | ***************** | ~·····                                  |                                         |
| DEC 27 1954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   | *********************                   |                                         |
| . 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               |                   |                                         | 175.1                                   |
| . 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               | 7 7 7             |                                         | 10                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                               | 1 11              | I I, E                                  | 4                                       |



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

| Section 1  | 1              |              |                | (A) Own                                          | er of well | : <b>37 7 %</b> !    | l makusu           |                     |                                              |
|------------|----------------|--------------|----------------|--------------------------------------------------|------------|----------------------|--------------------|---------------------|----------------------------------------------|
|            |                |              | $\neg$         |                                                  |            |                      | ingham             |                     |                                              |
| }          |                | }            |                |                                                  |            |                      |                    | State               |                                              |
| <u> </u>   | <del> </del>   |              |                | _                                                |            |                      |                    | and                 |                                              |
|            |                |              | - 1            |                                                  |            |                      | -                  | Twp 19s             |                                              |
|            | <del></del>    |              |                |                                                  |            |                      | •                  | Licen               |                                              |
|            |                |              | - {            | -                                                |            |                      |                    |                     |                                              |
|            | <del> </del> } |              |                |                                                  |            |                      |                    | State               |                                              |
|            |                |              |                |                                                  |            |                      |                    |                     |                                              |
|            |                |              |                | Drilling w                                       | as comple  | etedii               | br-26-             | <u> </u>            | 1958                                         |
| •          | Plat of 640 ac | •            |                |                                                  |            |                      |                    |                     |                                              |
|            |                |              |                |                                                  |            |                      | ·                  | pth of well 1       |                                              |
| State wh   | nether well    | is shall     | ow o           | r artesian_                                      | abullo     | .W                   | Depth to wa        | ter upon complet    | ion 48 feet                                  |
| Section 2  | 2              |              |                | PRIN                                             | CIPAL W    | ATER-BEAR            | ING STRATA         |                     |                                              |
|            | Depth in       | Feet         | Th'            | ickness in                                       | <u> </u>   |                      |                    |                     |                                              |
| No.        | From           | То           |                | Feet                                             | ĺ          | Des                  | scription of Water | r-Bearing Formation | 1                                            |
| 1          |                |              |                |                                                  | Γ.         |                      |                    |                     | ,                                            |
| 2          | 43             | _60          | -              | 12                                               | wot        | TANDEUG.             | -                  |                     |                                              |
|            | _61            | 95           |                | 9                                                |            |                      |                    |                     | •                                            |
| 3          | 105            | 114          | <u> </u>       | 9                                                | wa         | terson               | <u> </u>           |                     | <del></del>                                  |
| 4          |                |              |                |                                                  | ļ          |                      |                    |                     |                                              |
| 5          |                |              | <u>i</u>       |                                                  |            |                      |                    | <del>-</del>        |                                              |
| Section 3  | 3              |              |                |                                                  | RECOR      | RD OF CAS            | SING               |                     | •                                            |
|            | 1              | 1            |                | Der                                              |            | 7                    | 1                  | Porfor              |                                              |
| Dia<br>in. | Pounds<br>ft.  | Threa        |                | Top                                              | Bottom     | Feet                 | Type Shoe          | Perfor<br>From      | i To                                         |
|            |                | <del> </del> |                | <del>                                     </del> |            | 103                  |                    |                     |                                              |
| 14_        | <del> </del>   | none         | <u> </u>       | -0-                                              | 123        | 123_                 | none               | 58                  | 120                                          |
|            |                |              |                | +                                                |            |                      |                    |                     | <del></del>                                  |
|            | <del> </del>   | +            |                | +                                                |            | <del> </del>         | <del>  </del>      | <del></del>         |                                              |
|            | <u></u>        | <del></del>  |                | 1 1                                              |            |                      |                    | <del> </del>        | <u>.                                    </u> |
| Section 4  | 1              | ·            |                | RECORT                                           | D OF MUC   | DING AN              | D CEMENTING        |                     | ••                                           |
|            | n in Feet      | Diame        |                | Tons                                             | No. Sa     | I .                  |                    | Methods Used        |                                              |
| From       | То             | Hole in      | in.            | Clay                                             | Cem        | ent                  |                    | Machine Court       |                                              |
|            |                |              |                | <u> </u>                                         |            |                      |                    |                     |                                              |
|            |                | 1            |                |                                                  |            |                      |                    |                     |                                              |
|            |                |              |                |                                                  |            |                      |                    |                     |                                              |
|            |                | <u> </u>     |                |                                                  |            |                      | ·                  |                     |                                              |
|            | •              |              |                |                                                  | 01 LIGG    | SING RECO            | <b>0</b> 20        |                     |                                              |
| ection 5   |                |              |                |                                                  |            |                      |                    | <b></b>             |                                              |
|            |                |              |                |                                                  |            |                      |                    | License No.         |                                              |
|            |                |              |                |                                                  |            |                      |                    | State               |                                              |
|            | -              |              |                |                                                  |            |                      |                    | pe of roughage      |                                              |
|            | •              |              |                |                                                  |            |                      | •                  | gged.               |                                              |
| lugging    | approved l     | by:          |                |                                                  |            |                      | Cement Plug        | gs were placed as   | follows:                                     |
|            |                |              |                |                                                  |            | No.                  | Depth of Pl        | No. of              | Sacks Used                                   |
|            |                |              | <del>- ¥</del> | Basin Supe                                       |            | <b>-</b> ,           | From T             | 70.01               | Sacas Caeu                                   |
|            | FOR USE        | OF STAT      | E E            | GIVEER ON                                        | ALY        |                      | <u>  </u>          |                     |                                              |
|            |                | ,            | MAY            | r 8 <b>1</b> 95 <b>8</b>                         | Mn         |                      |                    |                     |                                              |
| Date I     | Received       |              |                |                                                  | Kn-        | -                    |                    |                     |                                              |
|            |                | CRO          | י חואני<br>'   | OFFICE<br>WATER SUPF                             | :SAIGUE    |                      |                    |                     |                                              |
|            |                | 11+401       | COSWE          | ELL, NEW MEX                                     | co_        |                      |                    |                     |                                              |
|            | , 2            | 7 12 6       | ,              |                                                  |            | 0                    |                    |                     | ( )                                          |
| File No.   | L 3.           | 270          |                |                                                  | Use↓       | $\Delta \mathcal{M}$ | Location           | n No. 19.38         | 15.572                                       |

44412

# STATE ENGINEER OFFICE WELL RECORD



Section 1. GENERAL INFORMATION

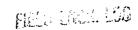
| £* \$ \$* 5 | 2 1 | CHICH                                   | Ť   | -   |
|-------------|-----|-----------------------------------------|-----|-----|
| 1 4 . 2     |     | 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | - 2 | 71. |

| (A) Owner o<br>Street or<br>City and | Post Office A                         | . Aaron<br>ddress Star<br>Hobbs, Ne | r Route      | 8, Box<br>co 882 | 70              | Ow               | vner's Well No                        |                                                  |                  |
|--------------------------------------|---------------------------------------|-------------------------------------|--------------|------------------|-----------------|------------------|---------------------------------------|--------------------------------------------------|------------------|
| -                                    |                                       | t No. L-8                           |              |                  | _ and is locate | d in the:        |                                       |                                                  |                  |
| a                                    | ¼                                     | 4 SE 4 S                            | SE_ ¼ of Se  | ection 15        | Township _      | 19S 1            | Range3                                | 8 <u>E</u>                                       | N.M.P.M.         |
| b. Tract                             | No                                    | of Map No.                          |              | of the           | ÷               |                  |                                       |                                                  |                  |
| c. Lot N<br>Subdi                    | lo<br>vision, record                  | _ of Block No                       | Lea          | of the           | county.         |                  |                                       | <del></del>                                      |                  |
| d. X≈<br>the                         | · · · · · · · · · · · · · · · · · · · | feet, Y=                            |              | feet, N          |                 | e System         |                                       |                                                  |                  |
| (B) Drilling                         | Contractor                            | Abbott B                            | cos.         |                  |                 | License No.      | WD-46                                 |                                                  |                  |
| Address P                            | .0. Box                               | 637, Hobl                           | os, New      | Mexico           | 88240           |                  |                                       |                                                  |                  |
| Drilling Began                       | 9/16/8                                | O Comp                              | oleted       | 9/17/80          | _ Type tools _  | Cable            | Size o                                | f hole_                                          | 8 in.            |
| Elevation of la                      | nd surface or                         |                                     |              | at we            | ll is           | ft. Total der    | th of well                            | 118                                              | ft.              |
| Completed we                         | ılis □X                               | shallow 🔲 a                         | rtesian.     |                  | Depth to water  | er upon completi | ion of well                           | 50                                               | ft.              |
| ·                                    |                                       | Sec                                 | tion 2. PRIN | ICIPAL WATE      | R-BEARING S     | TRATA            |                                       |                                                  |                  |
| Depth<br>From                        | in Feet                               | Thickness<br>in Feet                |              | Description of   | Water-Bearing   | Formation        |                                       | mated '                                          | Yield<br>ninute) |
| 60                                   | 118                                   | 58                                  | Sai          | nd               |                 |                  |                                       |                                                  | . (              |
|                                      | 1 110                                 | 1 20 1                              | , Day        |                  |                 |                  |                                       |                                                  |                  |
|                                      |                                       |                                     | _            |                  | <del></del>     |                  |                                       | _                                                |                  |
| <u> </u>                             |                                       |                                     |              |                  |                 |                  |                                       |                                                  |                  |
|                                      | L                                     |                                     | Sectio       | n 3. RECORD      | OF CASING       |                  |                                       |                                                  |                  |
| Diameter (inches)                    | Pounds<br>per foot                    | Threads                             | Depth        | in Feet          | Length (feet)   | Type of S        | hoe                                   |                                                  | ations           |
|                                      | 1                                     | per in.                             | Top          | Bottom           |                 |                  |                                       | rom                                              | То               |
| 6 5/8                                | 19                                    | Welded                              | 0            | 118              | 118             | None             |                                       | 78                                               | 118              |
|                                      |                                       | 1                                   |              |                  |                 | <del> </del>     |                                       |                                                  |                  |
| L                                    | <u>[</u>                              |                                     |              | <u> </u>         |                 | <u></u>          |                                       |                                                  |                  |
| Depth                                | in Feet                               | Section Hole                        | on 4, RECOL  | RD OF MUDD       | ING AND CEN     |                  | thod of Placer                        |                                                  |                  |
| From                                 | То                                    | Diameter                            | of Mi        | ud of            | Cement          | Met              |                                       |                                                  | ·                |
|                                      |                                       |                                     |              |                  |                 |                  | <del></del>                           |                                                  |                  |
|                                      |                                       | <u> </u>                            |              |                  |                 | <u></u>          |                                       | <del></del>                                      |                  |
| L                                    |                                       |                                     |              |                  |                 |                  |                                       |                                                  |                  |
|                                      |                                       |                                     |              | n 5. PLUGGIN     | G RECORD        |                  |                                       |                                                  |                  |
|                                      |                                       |                                     |              |                  |                 | Depth            | in Feet                               | Cu                                               | bic Feet         |
|                                      |                                       |                                     |              |                  | No.             | Тор              | Bottom                                |                                                  | Cement           |
| Plugging approv                      |                                       |                                     |              |                  | $\frac{1}{2}$   |                  |                                       | <del>                                     </del> |                  |
|                                      |                                       | State Engi                          | neer Represe | entative         | 4               |                  |                                       |                                                  |                  |
| Data Passing                         | Santamb.                              | , 10 1000                           |              | of state en      | GINEER ONI      | LY               |                                       |                                                  |                  |
| Date Received                        | septembe                              | er 19, 1980                         |              | Quad             |                 | FWL              | · · · · · · · · · · · · · · · · · · · | _·FSL_                                           |                  |
|                                      | -8352                                 |                                     |              | DOM              |                 |                  | 10 38 15                              | 1 1                                              |                  |

|                  |                                                                                |                      |                    | WELL HEL    | UND                                   |                                       |                   |            |                    |
|------------------|--------------------------------------------------------------------------------|----------------------|--------------------|-------------|---------------------------------------|---------------------------------------|-------------------|------------|--------------------|
|                  |                                                                                |                      | Section 1          | . GENERAL I | NFORMATIO                             | ON                                    |                   |            |                    |
| (A) Owner of     | of well                                                                        | J                    | oe Tarb            | et          |                                       | Owi                                   | ner's Well N      | o. <u></u> |                    |
| Street o         | r Post Office A                                                                | ddress               | Rt.4, Bo           | x 333A      | 79360                                 | <del></del>                           |                   |            | <del></del>        |
|                  |                                                                                |                      |                    |             |                                       |                                       |                   |            |                    |
|                  |                                                                                | t No. L-10,          |                    |             |                                       |                                       |                   |            |                    |
|                  |                                                                                |                      |                    |             | _                                     | <u>19-S</u> R                         | _                 |            |                    |
| b. Tract         | ! No                                                                           | of Map No.           |                    | of the      | ·                                     |                                       |                   |            | <del></del>        |
| c. Lot i<br>Subd | No<br>livision, record                                                         | of Block No<br>ed in | Lea                | of the      | County.                               |                                       |                   |            |                    |
|                  |                                                                                | feet, Y=             |                    |             | .M. Coordina                          | te System                             |                   |            |                    |
| (B) Drilling     | Contractor                                                                     | Abbo                 | tt Bros.           | Drilli      | ng                                    | License No                            | WD-46             |            |                    |
|                  |                                                                                |                      |                    |             |                                       | xico 882                              |                   | · ·        | ·                  |
| Drilling Began   | Dec'. 9,                                                                       | 1990 Com             | oleted <u>Dec</u>  | . 15, 1990  | 2. Type tools.                        | Cable Tool                            | Size o            | of hole_   | 16ir               |
| Elevation of I   | and surface or .                                                               |                      |                    | at we       | ll is                                 | ft. Total dept                        | th of well        | 170        | f                  |
|                  | <b>65</b>                                                                      |                      |                    |             |                                       | er upon completic                     |                   |            |                    |
| Completed we     | ellis UXU                                                                      | shallow [] a         | rtesian.           |             | Depth to wat                          | er upon completion                    | on of well        |            | t                  |
| Den 4h           | i- Fact                                                                        |                      |                    | CIPAL WATE  | R-BEARING                             | STRATA                                | <del></del>       |            | 377 11             |
| From             | Depth in Feet Thickness Description of Water-Bearing Formation (gallons per mi |                      |                    |             |                                       |                                       |                   |            |                    |
| 60               | 166                                                                            | 106                  | Sand               | & etc       |                                       |                                       |                   |            |                    |
| . 80             | 100                                                                            | 100                  | Sand               | Janu d' CCC |                                       |                                       |                   |            |                    |
| ·                | <del> </del>                                                                   | ļ                    |                    |             | · · · · · · · · · · · · · · · · · · · | ·                                     |                   |            |                    |
|                  | <u> </u>                                                                       |                      |                    |             |                                       | <del></del>                           |                   |            |                    |
|                  |                                                                                |                      |                    | •           | -                                     |                                       |                   |            |                    |
|                  | J                                                                              | · <del>1</del>       |                    |             |                                       | · · · ·                               | J                 |            |                    |
| Diameter         | Pounds                                                                         | Threads              | Section<br>Depth i | n 3. RECORD | OF CASING<br>Length                   | <del></del>                           | <del></del>       | Perfo      | rations            |
| (inches)         | per foot                                                                       | per in.              | Тор                | Bottom      | (feet)                                | Type of Sh                            | Type of Shoe From |            | To                 |
| 14               | 37                                                                             | Welded               | 0                  | 171         | 171                                   | NONE                                  |                   | 91         | 171                |
| 14               |                                                                                | Herueu               |                    |             |                                       |                                       |                   |            |                    |
| <del> </del>     | ļ                                                                              |                      |                    |             | <u> </u>                              | <del></del>                           |                   |            |                    |
|                  | <u> </u>                                                                       |                      |                    |             | <u> </u>                              |                                       |                   |            | <u> </u>           |
|                  |                                                                                | Section              | on 4. RECOR        | D OF MUDD   | ING AND CE                            | MENTING                               |                   |            |                    |
|                  | in Feet                                                                        | Hole<br>Diameter     | Sack of Mu         |             | bic Feet<br>Cement                    | Meth                                  | od of Place       | ment       |                    |
| From             | То                                                                             | Diameter             | 01 1410            | 0,          | Cement                                |                                       |                   |            |                    |
|                  | ļ                                                                              | ļ                    | ł.                 |             |                                       |                                       |                   |            |                    |
|                  |                                                                                |                      |                    |             |                                       |                                       |                   |            |                    |
|                  |                                                                                |                      |                    | ·           |                                       |                                       |                   |            | ·                  |
| <del></del>      | J                                                                              | <del></del>          | <u> </u>           | <del></del> |                                       | <del></del>                           |                   |            |                    |
|                  |                                                                                |                      |                    | 5. PLUGGIN  | G RECORD                              |                                       |                   |            |                    |
|                  | ractor                                                                         |                      |                    |             |                                       | · · · · · · · · · · · · · · · · · · · |                   |            |                    |
|                  |                                                                                |                      |                    | <del></del> | No.                                   | Depth in                              | Bottom            |            | bic Feet<br>Cement |
| -                | - •                                                                            |                      |                    |             |                                       | 1                                     |                   | #          |                    |
| lugging appro    | ved by:                                                                        |                      |                    |             | $\frac{2}{3}$                         | <del> </del>                          |                   | +          |                    |
|                  |                                                                                | State Engi           | neer Represei      | ntative     | 4                                     |                                       |                   | 工          |                    |
| <del></del>      |                                                                                |                      | FOR USE O          | OF STATE EN | GINEER ON                             | LY                                    |                   |            |                    |
| ate Received     | July 19                                                                        | 9, 1991              | •                  |             |                                       |                                       |                   |            |                    |
|                  |                                                                                |                      |                    |             |                                       | FWL                                   |                   | _ FSL      |                    |
| 7721 - N         | 1_10 139                                                                       | 2                    |                    | TDD         |                                       |                                       | 10 38 1           | A AA:      | 222                |

19.38.14,44332

# STATE ENGINEER OFFICE WELL RECORD



#### Section 1. GENERAL INFORMATION

| (A) Owner of<br>Street or           | Post Office A   | ddress <u>Box</u>    | 1960        |                   | roduction            | 18      | Owner             | 's Well No.       |                     | <del></del> |
|-------------------------------------|-----------------|----------------------|-------------|-------------------|----------------------|---------|-------------------|-------------------|---------------------|-------------|
|                                     |                 | dland, Tex           |             |                   |                      |         |                   |                   | <del></del>         |             |
| Well was drilled                    | under Permit    | No                   | 250         |                   | and is lo            | cated   | in the:           |                   |                     |             |
| a. <u>NE</u>                        | _ ¼ <u>SE</u> ; | 4SW                  | ¼ of S      | ection            | Towns                | hip_    | 9-S<br>Rang       | <sub>se</sub> 38- | -E                  | _N.M.P.M.   |
| b. Tract l                          | No              | of Map No.           |             | of                | the                  |         |                   |                   |                     |             |
|                                     |                 | of Block No          |             |                   |                      |         |                   |                   |                     |             |
| d. X=<br>the                        |                 | feet, Y=             |             | feet,             | , N.M. Coord         | inate   | System            |                   |                     |             |
| (B) Drilling C                      | ontractor       | W. L. Van N          | оy          |                   |                      |         | License No        | WD-208            | 3                   |             |
| Address                             |                 | P. 0. Box            | 74 0        |                   |                      |         | 88266             |                   |                     |             |
|                                     |                 |                      |             |                   |                      |         | Spudder           | Size of           | hole                | 10in.       |
| Elevation of lan                    | d surface or _  | 1                    |             | at                | well is=             |         | ft. Total depth o | f well            | 125                 | ft.         |
| Completed well                      | is 🗆 s          | hallow 🗀 a           | rtesian.    |                   | Depth to             | watei   | upon completion o | of well           | 8                   | 0ft.        |
| <u> </u>                            |                 | T                    | ion 2. PRIN | ICIPAL WAT        | TER-BEARIN           | IG S    | TRATA             |                   |                     |             |
| Depth i                             | n Feet<br>To    | Thickness<br>in Feet |             | Description -     | of Water-Bea         | ring I  | Formation         |                   | nated Y<br>s per mi |             |
| 95                                  | 120             | 25                   | МЕ          | waterXXXXXX Sand. |                      |         |                   |                   |                     |             |
|                                     |                 |                      |             |                   | -                    |         |                   |                   |                     |             |
|                                     |                 |                      |             |                   |                      |         |                   |                   |                     |             |
|                                     |                 | ,                    |             |                   |                      |         |                   |                   |                     |             |
|                                     |                 |                      | Section     | n 3. RECOF        | RD OF CASI           | ١G      | <u> </u>          |                   |                     | ·           |
| Diameter                            | Pounds          | Threads              | Depth       | in Feet           | Lengt                | h       | Type of Shoe      |                   | Perfora             | tions       |
| (inches)                            | per foot        | per in.              | Тор         | Bottom            | (feet                | ,       |                   | Fr                | om                  | То          |
| 6 5/8                               | 3 weld          | led                  | 0           | 125               | 125                  | 5       | none              | 10                | 5                   | 121         |
|                                     |                 |                      |             | -                 |                      |         |                   |                   |                     |             |
|                                     | *               |                      |             |                   |                      |         |                   |                   |                     |             |
|                                     | <del></del>     | Section              | n 4. RECO   | RD OF MUI         | DDING AND            | СЕМ     | ENTING            |                   |                     |             |
| Depth i                             | n Feet<br>To    | Hole<br>Diameter     | Sac<br>of M | -                 | Cubic Feet of Cement |         | Method            | of Placem         | ent                 |             |
|                                     |                 |                      |             |                   |                      | 1       | <del></del>       |                   |                     |             |
|                                     |                 |                      |             |                   |                      | _       |                   |                   |                     |             |
|                                     |                 | <u> </u>             |             |                   |                      | +       |                   |                   |                     |             |
|                                     | 4-1             |                      |             | ·                 | · · · · · ·          |         |                   |                   |                     |             |
| Plugging Contra                     | ctor            | · .                  | Section     | on 5. PLUGG       | GING RECOR           | tD.     |                   |                   |                     |             |
| Address                             |                 | <del></del>          |             |                   |                      | <br>Io. | Depth in F        | eet               | Cub                 | ic Feet     |
| Plugging Method<br>Date Well Plugge |                 |                      |             |                   |                      | 1       | Top               | Bottom            | of C                | Cement      |
| Plugging approve                    | ed by:          |                      |             |                   |                      | 2       |                   |                   |                     |             |
|                                     |                 | State Engir          | neer Repres | entative          | L.                   | 4       |                   |                   |                     |             |
| Date Received                       | April 21,       | , 1980               | FOR USE     |                   | ENGINEER             | ONL     |                   |                   |                     | <u></u>     |
|                                     | 1 -8250         |                      |             |                   | ad                   |         | FWL               | 30 14             |                     |             |

## WELL RECORD

| Section .  | 1             |             |                   |                  |                                          |            | er Construc        |                      |                              |
|------------|---------------|-------------|-------------------|------------------|------------------------------------------|------------|--------------------|----------------------|------------------------------|
| 1          | 1             |             | . !               | Street and       | l Number.                                | <b>Box</b> | 54.5               |                      |                              |
| 1 .        |               |             | _                 | CityI            | lobba                                    |            |                    | State _              | lew Mexico                   |
|            |               |             |                   | Well was         | drilled ur                               | ider Pern  | nit No. L - 361    | :8an                 | d is located in the Rge 38 E |
| -          | +             |             |                   | (B) Drill        | ing Contra                               | actor_C_   | F. Musslow         | iite Lice            | nse No. WD 99                |
| -          |               | {           | [ ]               | Street and       | l Number.                                | Box 5      | 6                  |                      |                              |
|            |               |             |                   | City H           | addo                                     |            |                    | State _              | Now Mexico                   |
| '          |               |             |                   | Drilling v       | vas cómm                                 | encedA     | ugust 26           |                      | 19.57                        |
|            | Plat of 640   | acres)      |                   | _                |                                          |            |                    |                      | 19 57                        |
| Elevatic   | n at top o    | of casing i | n feet            | t above se       | a level                                  |            | Total de           | oth of well 1        | 20                           |
| State w    | hether we     | ll is shall | ow o              | r artesian       | shall                                    | .ow        | Depth to wa        | -<br>ter upon comple | tion 50                      |
|            |               |             |                   |                  |                                          |            | ING STRATA         |                      | •                            |
| Section    |               |             | 1 •               | <del> </del>     | <del></del>                              |            | <del></del>        |                      |                              |
| No.        | From          | To          |                   | kness in<br>Feet | 12 12 12 12 12 12 12 12 12 12 12 12 12 1 | De         | scription of Water | r-Bearing Formation  | on                           |
| 1          | 85            | 120         | 3                 | 15               | Rod B                                    | and        |                    |                      |                              |
| 2          |               |             |                   |                  |                                          |            |                    |                      |                              |
| 3          |               |             |                   |                  |                                          |            |                    |                      |                              |
| 4          |               |             |                   |                  |                                          |            |                    |                      |                              |
| 5          |               |             |                   |                  |                                          |            |                    |                      |                              |
| Section    | 3             |             |                   |                  | RECOR                                    | D OF CA    | SING               |                      |                              |
| Dia<br>in. | Pounds<br>ft. |             | _                 | Top              | pth Feet Type Shoe -                     |            | Perfo<br>From      | orations<br>To       |                              |
|            | 12            | nor         |                   | 0                | 120                                      | 120        | none               | 70                   | 120                          |
| 22         | 12            | 1:01        | .3                |                  |                                          |            | 1.0116             | 1.7                  |                              |
|            | <del> </del>  | 1           |                   |                  |                                          |            |                    |                      |                              |
|            |               |             |                   |                  |                                          |            |                    |                      |                              |
| Section -  | 4             |             |                   | RECOR            | D OF MU                                  | DING AN    | ID CEMENTING       |                      |                              |
| Dept       | h in Feet     | Diame       | eter              | Tons             | No. Sa                                   | cks of     |                    |                      |                              |
| From       | To            | Hole in     | ı in.             | Clay             | Cem                                      | ent        |                    | Methods Used         |                              |
|            |               |             |                   |                  |                                          |            |                    |                      |                              |
|            |               | ,           |                   |                  |                                          |            |                    |                      |                              |
|            | 7             |             |                   |                  |                                          |            |                    |                      |                              |
| -          | <u> </u>      |             |                   | -                | 1                                        |            |                    |                      |                              |
| Section 8  | 5             |             |                   |                  | PLUGG                                    | ING REC    | ORD                |                      |                              |
|            |               | •           |                   |                  |                                          |            |                    |                      | )                            |
|            |               |             |                   |                  |                                          |            |                    |                      |                              |
|            |               |             |                   |                  |                                          |            |                    |                      |                              |
|            |               |             |                   |                  | ·····                                    |            |                    |                      | 19                           |
| lugging    | approved      | l by:       |                   |                  |                                          |            | Cement Plug        | s were placed as     | s follows:                   |
|            |               |             |                   |                  |                                          | No         | Depth of Pl        | No. o                | f Sacks Used                 |
|            |               |             | L V               | Basin Sup        | er visor                                 | -          | From T             | 0                    |                              |
|            |               |             | T.                | 1 1 1            | 39                                       |            |                    |                      |                              |
| <br>       | FOR US        |             | E EN              | INEER O          | WY.                                      |            | -                  |                      |                              |
|            |               | E OF STAT   | CEP:              |                  |                                          |            |                    |                      |                              |
| Date 1     | FOR US        | E OF STAT   | SEP:              |                  |                                          |            |                    |                      |                              |
| Date 1     |               | GROU        | OF<br>OF<br>NO WA | 3 1957<br>FICE   | 115Oz                                    |            |                    |                      |                              |
| Date 1     |               | GROU        | OF<br>OF<br>NO WA | 3 1957<br>FICE   | 115Oz                                    |            |                    |                      |                              |

# WELL RECORD

| Name o                                  | of permittee,                           | J. A. S                                 | elman                                   |                                       | &              | Permit No<br>Enlarg                    | ed                    | :       |
|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|----------------|----------------------------------------|-----------------------|---------|
|                                         |                                         |                                         | *************************************** |                                       |                |                                        |                       |         |
| l. Well loc                             | ation and de                            | escription: Th                          | w WOLLAGE or                            | ell is located in                     | -HH 5/         | 2 1                                    | #正 5                  | Έ       |
|                                         |                                         | · ·                                     | (shallow or artesian)                   | 1 104104 111 .                        |                | ······                                 | (NMP                  | M)      |
| NE.                                     |                                         | ection                                  | 14 Township                             | 193 Re                                | nge 381        | Ε,                                     |                       |         |
| contra d                                | nhawa 1-                                | aral                                    | feet; diamet                            |                                       |                |                                        | . 325                 | _       |
|                                         |                                         |                                         |                                         |                                       |                |                                        |                       |         |
| depth to                                | water upon                              | completion,                             | i) ii feet;                             | drilling was comm                     | encedA         | eril 10                                |                       | 19.     |
| and com                                 | pleted                                  | pril 13                                 | 19 53                                   | name of drilling o                    | ontractor      | ). R. M                                | ian <b>lowhi</b> te   | <u></u> |
|                                         | Вох                                     | 56 . Adda                               | ess, Aubbs,                             | New exico                             | . D'alltan's   | 7 (aamaa N7                            | . MD 99               |         |
| 2. Principa                             | ıl Water-bear                           |                                         | css,                                    | * -35\$                               | ; Driner s     | :                                      | O                     | ,       |
|                                         | Depth is                                | n Feet                                  | Thickness                               | Descr                                 | iption of Wate | r-bearing Fo                           | rmation               |         |
| No. 1                                   | From                                    | To                                      | 7 '11                                   |                                       |                |                                        |                       |         |
|                                         | 65_                                     | 95                                      | 20                                      | Rod                                   | and Fir        | 10                                     |                       |         |
| No. 2                                   | 88                                      | 125                                     | 37                                      | Red                                   | Sand: Cor      | rso                                    |                       |         |
| No. 3                                   | Ì                                       |                                         |                                         | •                                     |                | ·<br>!                                 |                       |         |
| No. 4                                   |                                         |                                         |                                         |                                       |                | <u> </u>                               |                       |         |
| No. 5                                   |                                         |                                         |                                         |                                       |                | i<br>i                                 |                       |         |
| Diameter                                | Pounds<br>per ft.                       | Threads D<br>per inch                   | Pepth of Casing or Lin<br>Top Bottom    | er Feet of<br>Casing                  | Type of Shoo   | i<br>In                                | Perforation<br>rom To | •       |
| 16                                      | 30                                      | None                                    | 0 3                                     |                                       |                | ·<br>•                                 |                       |         |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | **** *** ***********                    |                                         |                                         | <u> </u>                              |                | ·<br>·                                 | · · · · ·             |         |
|                                         |                                         |                                         |                                         | •                                     |                | •                                      | * ***                 |         |
|                                         | *************************************** |                                         | *************************************** |                                       |                |                                        |                       |         |
|                                         | *****************                       |                                         |                                         | <u> </u>                              |                | · ·                                    |                       |         |
|                                         |                                         | *************************************** |                                         |                                       |                | · ···································· |                       | •       |
|                                         |                                         |                                         | •                                       | ;<br>:                                | :              |                                        |                       |         |
| . If above                              | construction                            | replaces old                            | well to be abando                       | ned, give location                    | 1:             | .¼,                                    | 4,                    | •••••   |
|                                         |                                         |                                         | , Rang                                  | e 'n                                  | ame and ad     | dress of n                             | lugging cont          | rac     |
| of Section                              | n                                       | Township                                |                                         |                                       |                | F                                      |                       |         |
| •                                       |                                         | -                                       |                                         | 4                                     |                |                                        |                       |         |
| •                                       | n                                       | -                                       |                                         | · · · · · · · · · · · · · · · · · · · |                |                                        | <u> </u>              |         |
| •                                       |                                         | -                                       |                                         | <u> </u>                              |                |                                        |                       |         |
|                                         |                                         |                                         | , 19.                                   |                                       |                | · · · · · · · · · · · · · · · · · · ·  |                       |         |
| daté of 1                               | plugging                                |                                         |                                         |                                       | well was plu   | gged:                                  |                       |         |
|                                         | plugging                                | 312                                     | , 19                                    |                                       | well was plu   | gged:                                  |                       |         |
| daté of 1                               | plugging                                | 312                                     |                                         |                                       | well was plu   | gged:                                  |                       |         |

195.38E.14.240

APR 20 053

1-11-21

FIELD '\_\_\_\_R. LOG

#### STATE ENGINEER OFFICE

WELL RECORD

| Section      | 1                     |                                                  | (                    | A) Owne          | er of well              | James                            | A. Selman                             |                                         |                                                 |  |
|--------------|-----------------------|--------------------------------------------------|----------------------|------------------|-------------------------|----------------------------------|---------------------------------------|-----------------------------------------|-------------------------------------------------|--|
|              |                       |                                                  | s                    | treet and        | i Number.               | Star R                           | loute A.                              |                                         |                                                 |  |
|              |                       |                                                  | l Ci                 | lity.            |                         |                                  | пов                                   | ba<br>Enlarget                          | New Mexico                                      |  |
|              |                       |                                                  | W                    | /ell was<br>NE 4 | drilled un              | nder Perm                        | nit No. L-IUZI                        |                                         | and is located in th 95 Rge 38E  icense No.WD99 |  |
|              | +                     |                                                  |                      |                  |                         | BOX                              | R. Musslew                            | hite L                                  | icense No.WD99                                  |  |
|              |                       |                                                  | St                   | treet and        | d Number                |                                  | ~                                     |                                         | New Mexico                                      |  |
|              |                       |                                                  |                      | ity              |                         | F                                | eb. 9,                                | State                                   | New Mexico                                      |  |
|              |                       |                                                  |                      |                  | vas commo<br>vas comple | encedF                           | eb 22,                                | *************************************** | 19.57                                           |  |
| •            | (Plat of 640          | · <del>-</del>                                   |                      | _                |                         |                                  |                                       |                                         |                                                 |  |
| Elevation    | on at top             | of casing i                                      | n feet               | above se         | a level                 |                                  | Total dep<br>Depth to wa              | pth of well                             | 168                                             |  |
| State w      | hether w              | ell is shall                                     | .ow or               | artesian_        | DINATIO                 |                                  | Depth to wa                           | ter upon com                            | pletion 75                                      |  |
| Section      | 2                     |                                                  |                      | PRIN             | CIPAL WA                | ATER-BEAR                        | ING STRATA                            |                                         | -1                                              |  |
| No.          | Depth<br>From         | in Feet                                          | 1                    | kness in<br>Feet |                         | Der                              | scription of Water                    | r-Bearing Form                          | nation                                          |  |
| 1            | 85                    | 100                                              | 7                    | 15               | Red 8                   | and                              |                                       |                                         |                                                 |  |
| 2            | 120                   | 135                                              | 7                    | 15               | 11                      | 27                               |                                       |                                         |                                                 |  |
| 3            |                       |                                                  |                      |                  |                         |                                  |                                       |                                         |                                                 |  |
| 4            |                       | <del>                                     </del> |                      |                  |                         |                                  |                                       |                                         |                                                 |  |
| 5            |                       | ļ                                                | <del> </del>         | -                |                         |                                  |                                       |                                         |                                                 |  |
| Section      | 3                     |                                                  |                      |                  | RECOR                   | RD OF CAS                        | SING                                  |                                         |                                                 |  |
| Dia          | Pounds                |                                                  | I                    | Dep              |                         | Feet                             | Type Shoe                             |                                         | erforations                                     |  |
| in.          | ft.<br>18             | in                                               |                      | Top              | Bottom                  |                                  |                                       | From                                    | То                                              |  |
|              | 10                    | no                                               | ne                   | 8                | 168                     | 168                              | none                                  | 70,                                     | 168                                             |  |
|              |                       | _                                                |                      |                  | <b> </b>                | <del> </del>                     |                                       |                                         |                                                 |  |
|              |                       | -                                                | +                    |                  |                         |                                  |                                       |                                         | •                                               |  |
| Section      | 4                     |                                                  |                      | RECOR            | D OF MU                 | DDING AN                         | ID CEMENTING                          |                                         |                                                 |  |
| Dept<br>From | th in Feet            | Diame<br>Hole in                                 |                      | Tons<br>Clay     | 1                       | No. Sacks of Cement Methods Used |                                       |                                         |                                                 |  |
|              |                       |                                                  |                      |                  |                         |                                  |                                       |                                         |                                                 |  |
|              | <u> </u>              |                                                  |                      |                  |                         |                                  |                                       |                                         |                                                 |  |
|              | ļ                     | <del></del>                                      |                      |                  |                         |                                  |                                       |                                         |                                                 |  |
|              | 1                     | <u> </u>                                         |                      |                  | <u> </u>                |                                  |                                       | · · ·                                   |                                                 |  |
| Section      |                       | <b>2</b> 4                                       | • - •                |                  | PLUGG                   |                                  |                                       | · ·                                     |                                                 |  |
|              |                       |                                                  |                      |                  |                         |                                  |                                       |                                         | No                                              |  |
| - 4          |                       | er                                               |                      |                  |                         | -                                |                                       |                                         | ge                                              |  |
|              | •                     | ·used                                            |                      |                  | · , •                   |                                  |                                       |                                         | ge19                                            |  |
|              | g method<br>g approve |                                                  | <del></del>          |                  |                         |                                  | ,                                     |                                         |                                                 |  |
| Pinggm       | 3 abbrose             | a by.                                            |                      |                  | •                       | · —                              | · · · · · · · · · · · · · · · · · · · | gs were placed                          | 1 as тоцоws:                                    |  |
| _            |                       |                                                  |                      | Basin Supe       | ervisor                 | No.                              | From T                                | lug<br>Po No                            | o. of Sacks Used                                |  |
|              | FOR US                | SE OF STAT                                       | E ENG                |                  |                         |                                  |                                       |                                         |                                                 |  |
| Date         | Received.             |                                                  | M.Y.                 | 7 1957           | 1                       | _                                | +                                     |                                         |                                                 |  |
|              |                       |                                                  | o                    | FF1C2            |                         |                                  | 1                                     |                                         |                                                 |  |
|              |                       | cisc                                             | ggjejb W.<br>acesaru |                  | 100 0                   | .                                | <u> </u>                              | I                                       |                                                 |  |
|              | · / ,                 | !<br>! /                                         | 01                   | \$ 100 miles     |                         | $\bigcap_{i=1}^{n}$              |                                       | 10 3                                    | SOLI AXXON                                      |  |
| File No      | · / -/                | 021-8                                            | <u> Nb -</u>         | 5                | Use\'                   | XX                               | Locatio                               | n No. 17.3                              | 8.14.222                                        |  |

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, (P.O. Box 1079) Santa Fe, New Mexico, unless the well is situated in the Roswell Artesian Basin, in which case it should be filed in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

| Sec. 1                                       |                                                  | •          | •             | •                                     | 0                         |                                         |  |  |
|----------------------------------------------|--------------------------------------------------|------------|---------------|---------------------------------------|---------------------------|-----------------------------------------|--|--|
|                                              |                                                  | Owner of   | well Tr       | ank.                                  | Selm                      | en                                      |  |  |
| NW                                           | :<br>N.E                                         | Street and | Number        | ٠٠٠                                   | 7 .;<br>,                 |                                         |  |  |
|                                              |                                                  | Post Offic | e Ha          | bhe                                   | . A. SM                   | ef.                                     |  |  |
|                                              | <del>                                     </del> | Well was   | drilled under | Permit No.                            | 1-345                     | and                                     |  |  |
|                                              |                                                  | is located | in the        | بركي يو ج                             | E. NW.                    | 14 of Section                           |  |  |
|                                              | S.E                                              | Township   | 19            | · · · · · · · · · · · · · · · · · · · | Bange A. 5.8              | ?<br><u></u>                            |  |  |
| -2- <b>-</b>                                 |                                                  | Drilling ( | Contractor .  | b.Al.                                 | Mewa                      | ed, Jo                                  |  |  |
|                                              |                                                  | Street and | Number        | Rud 3                                 | . 38                      |                                         |  |  |
| (Plat of 640 :<br>Locate Well A              |                                                  |            | _             |                                       | En . H.                   | mel.                                    |  |  |
| Drilling was commence                        | d 15.0                                           | _ ,        | - /           | //                                    | , ,                       | 2 × 19.4.7                              |  |  |
| Elevation at top of casi                     | ng in feet abo                                   |            |               |                                       |                           | ,                                       |  |  |
| State whether well is                        | hallow or ar                                     | tesian     | hallow        | <del>./</del>                         | ·                         |                                         |  |  |
| Total depth of well                          | r. 2. f                                          | feet.      |               |                                       |                           | •                                       |  |  |
| Sec. 2                                       |                                                  |            | WATER-BEA     |                                       |                           |                                         |  |  |
| No. 1, from . 7.2                            |                                                  |            |               |                                       | 1                         | / _ /                                   |  |  |
| No. 2, from 8.7                              | to 1.2.                                          | , Thick    | ness in feet  | <i>3</i> 7.34                         | Formation                 | ter sand                                |  |  |
| No. 3, from                                  |                                                  | •          |               |                                       |                           | •                                       |  |  |
| No. 4, from to, Thickness in feet, Formation |                                                  |            |               |                                       |                           |                                         |  |  |
| No. 5/ from to, Thickness in feet, Formation |                                                  |            |               |                                       |                           |                                         |  |  |
| Sec. 3 RECORD OF CASING                      |                                                  |            |               |                                       |                           |                                         |  |  |
| DIAMETER POUNDS<br>IN INCHES PER FOOT        |                                                  |            |               |                                       |                           |                                         |  |  |
| 1300 ?                                       |                                                  |            | 120           | 100                                   | 80 120                    | 2                                       |  |  |
|                                              |                                                  |            |               |                                       | ,                         |                                         |  |  |
|                                              |                                                  |            |               |                                       |                           |                                         |  |  |
|                                              | <u> </u>                                         |            |               |                                       |                           |                                         |  |  |
| Sec. 4                                       |                                                  | RECORD     | OF MUDDING    | AND CEM                               | ENTING                    |                                         |  |  |
| DIAMETER OF<br>HOLE IN INCHES                | NUMBER OF S                                      |            | METHODS U     | SED                                   | SPECIFIC GRAVIT<br>OF MUD | TONS OF CLAY USED                       |  |  |
|                                              |                                                  |            |               |                                       | ; .                       |                                         |  |  |
|                                              |                                                  |            |               |                                       |                           |                                         |  |  |
|                                              |                                                  |            |               |                                       |                           |                                         |  |  |
|                                              |                                                  |            | ,             |                                       |                           |                                         |  |  |
| Sec. 5                                       |                                                  | PLUGG      | ING RECORD    | OF OLD W                              | Et I                      | <u>'-</u>                               |  |  |
|                                              | 14                                               |            |               | • *                                   | •                         | nip                                     |  |  |
| •                                            | /                                                |            |               |                                       | •                         |                                         |  |  |
|                                              | •                                                |            |               |                                       |                           |                                         |  |  |
|                                              |                                                  |            |               |                                       |                           | age                                     |  |  |
|                                              |                                                  |            |               |                                       |                           | Well Supervisor                         |  |  |
| Cement plugs were place                      |                                                  |            |               | hrabbung abi                          | TOVCO OJ TITICSIAN        | THE DUPCT VISOR                         |  |  |
| No. 1 was placed at                          |                                                  |            | feet Numl     | oer of sacks                          | of cement used            | • • • • • • • • • • • • • • • • • • • • |  |  |
| No. 2 was placed at                          |                                                  |            |               |                                       |                           |                                         |  |  |
|                                              |                                                  |            |               |                                       |                           |                                         |  |  |
|                                              |                                                  | 2          |               |                                       |                           |                                         |  |  |
| •                                            |                                                  |            |               |                                       |                           |                                         |  |  |
|                                              |                                                  |            | (OVER)        | ;                                     | wood .                    | *************************************** |  |  |

# STATE ENGINEER OFF WELL RECORD

# Section 1. GENERAL INFORMATION

| Street or       | Post Office A | ddress P.O.             | Box 1<br>s, New | 560          |                                       | 7 Wind Country                          |                 |                              |
|-----------------|---------------|-------------------------|-----------------|--------------|---------------------------------------|-----------------------------------------|-----------------|------------------------------|
| Vell was drille | d under Permi | it No. <b>L-10</b>      | 011             |              | and is locate                         | ed in the:                              |                 |                              |
| a               | ¼             | ¼ <u>NW</u> ¼ <u>NW</u> | Y of S          | ection 14    | Township                              | 198 Ra                                  | nge <u>38E</u>  | N.M.P.1                      |
| b. Tract        | No            | of Map No.              |                 | of           | the                                   |                                         | <del> , ;</del> |                              |
| c. Lot N        | lo            | _ of Block No<br>ed inL | ea              | of           | the                                   |                                         |                 | ·                            |
|                 |               | ,                       |                 |              |                                       | e System                                |                 | Zone                         |
|                 |               |                         |                 |              |                                       | . System                                |                 |                              |
|                 |               |                         |                 |              |                                       | License No                              | WD-46           | <u></u>                      |
| ddress          | P.O. Box      | 637,Hobb                | s, New          | Mexico       | 88240                                 | · • • • • • • • • • • • • • • • • • • • |                 |                              |
| rilling Began   | 6/13/88       |                         | leted 6/        | 15/88        | Type tools _                          | Cable                                   | Size of         | hole 10 ir                   |
| evation of la   | nd surface or |                         |                 | at           | well is                               | ft. Total depth                         | of well         | 140 f                        |
| ompleted we     | ll is 🏻 🖾     | shallow 🗆 a             | rtesian.        |              | Depth to water                        | er upon completion                      | of well         | 60 f                         |
| Donth           | in Foot       | 1                       | ion 2. PRIN     | CIPAL WA     | TER-BEARING S                         | TRATA                                   | Falls           | - And Winted                 |
| From            | in Feet<br>To | Thickness<br>in Feet    |                 | Description  | of Water-Bearing                      | Formation                               |                 | nated Yield<br>s per minute) |
| 60              | 135           | 75                      | Sai             | nd           |                                       |                                         |                 |                              |
|                 |               |                         |                 |              | · · · · · · · · · · · · · · · · · · · |                                         | ļ <u> </u>      |                              |
|                 |               |                         |                 |              |                                       | ·                                       |                 |                              |
|                 |               |                         |                 | <del></del>  |                                       |                                         | <u></u>         |                              |
| Diameter        | Pounds        | Threads                 |                 | on 3. RECOL  | RD OF CASING<br>Length                | <u> </u>                                |                 | Perforations Perforations    |
| (inches)        | per foot      | per in.                 | Тор             | Bottom       |                                       | Type of Sho                             | e               | om To                        |
| _7              | 22            | Welded                  | 0               | 141          | 141                                   |                                         |                 | 5 140                        |
|                 |               | -                       |                 | <del> </del> |                                       |                                         |                 |                              |
|                 |               | <u>l</u>                | ·               |              |                                       |                                         |                 |                              |
| Depth           | in Feet       | Section                 | on 4. RECO      |              | ODING AND CEI                         |                                         |                 |                              |
| From            | То            | Diameter                | of M            |              | of Cement                             | Metho                                   | od of Placem    | ent                          |
|                 |               |                         |                 |              |                                       | ·                                       |                 |                              |
|                 | ļ             | -                       |                 |              |                                       |                                         |                 |                              |
|                 | <u> </u>      | <u> </u>                | ļ               |              |                                       |                                         |                 |                              |
|                 |               |                         | Section         | on 5. PLUGO  | GING RECORD                           |                                         |                 |                              |
| ugging Contr    |               |                         |                 |              |                                       | Depth in                                | Feet            | Cubic Feet                   |
| igging Metho    |               |                         |                 |              | No.                                   | Тор                                     | Bottom          | of Cement                    |
| igging appro    | _             |                         |                 | ,            | 2 3                                   |                                         |                 |                              |
|                 |               | State Engi              | neer Repres     | entative     | 4                                     |                                         |                 |                              |
|                 |               |                         | FOR USE         | OF STATE     | ENGINEER ON                           | LY                                      |                 | <u> </u>                     |
| te Received     | June 22       | , 1988                  |                 | Qu           | ad                                    | FWL _                                   |                 | FSL                          |
| File No         | L-10,011      | _                       |                 | Use          | DOMESTIC                              | Location No.                            | 19.38.14        | .1110                        |

#### **NOTICE OF PUBLICATION**

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-236) - Pate Trucking Company, Inc., Mr. Gary Reid, (505)-392-8844, 3800 South Eunice HWY., Hobbs, NM, 88240, has submitted a Discharge Plan Application for their Hobbs facility located in the NW/4 NW/4, Section 14, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico. Any planned discharges or incidental wastes will be collected in a closed top receptacle and disposed of at an OCD approved facility. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 55 feet with a total dissolved solids concentration of approximately 170 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 2nd day of February, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

WJL/pws

SEAL

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

# MEMORANDUM OF MEETING OR CONVERSATION

|                                                                     |             | <del></del> |                                      |
|---------------------------------------------------------------------|-------------|-------------|--------------------------------------|
| ▼ Telephone                                                         | Time 8:00   | AM Da       | ce 2-2-96                            |
| Originating Party                                                   | <u> </u>    |             | Other Parties                        |
| Pat Sunchez - OCD                                                   |             | Mr. U       | les Root                             |
|                                                                     |             | Consulta    | nt For Pate                          |
| Subject Discharge Plan                                              | Application | 1 (GW       | -236)                                |
|                                                                     |             |             |                                      |
| Discussion Mr. Reut                                                 | will he     | ive th      | e Entire application                 |
| and filing Fec i.  The information  verbal Grandwat  application Su | 1 by        | Monday      | Feb. 5, 1996.                        |
| The intermation                                                     | Submit by   | Fax         | yesterday and                        |
| verbal Grandwat                                                     | er data     | will        | serve as intal                       |
| application so                                                      | that the    | = public    | Notice may be                        |
| issued.                                                             |             | ,<br>       |                                      |
|                                                                     |             |             |                                      |
|                                                                     |             |             |                                      |
|                                                                     |             |             |                                      |
|                                                                     |             |             |                                      |
| Conclusions or Agreements                                           |             |             |                                      |
| Grandnater c                                                        | depth = 55  |             |                                      |
| Total Dissolved Se                                                  |             |             | : 170 mg/L                           |
| - From Grounda                                                      | ater repor  | + No.6      |                                      |
| - Patabase from                                                     | · State En  | gineer s    | ction 14, T195, R38E                 |
| Distribution File,                                                  | Si          | gned S      | ection 14, T195, R38 E<br>ection 15, |
|                                                                     |             |             | Will CV. Source                      |



# **FAX TRANSMISSION**

# 6N-236 RECEIVED FEB 11996

Environmental Bureau
Oil Conservation Division

# ENVIRONMENTAL SPILL CONTROL, INC.

ESCI

Phone (505) 392-6167 Fax (505) 397-5085 1203 West Dunnam P.O. Box 5890 Hobbs, New Mexico 88241

| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Fax Number 7-505-8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ez NMOCO, SANTA Fe Office                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ···                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| From Job. Am./                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Page of 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| 4 . Security 1 10 10 4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the  |
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P.02

<u>District I</u> - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

District III - (505) 334-6178 1000 Rio Brazos Road

Aztec, NM 87410 District IV - (505) 827-7131 New Mexico

Energy Minerals and Natural Resources Department Oil Conservation Division

> 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Revised 8/8/95

Submit Original Plus I Copy to Santa Fe 1 Copy to appropriate District Office

#### DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES (Refer to the OCD Guidelines for assistance in completing the application)

Modification X New Renewal Service Company 1. Pate Trucking COMPANY, 2. South Eunice Highway, Hobbs, New Mexico 88240 3800 Contact Person: Mr. TENERAL MANAGER Nownship 7/95 Range R 38E NW 14 Section\_ 3. Submit large scale topographic map showing exact location. Attach the name and address of the landowner of the facility site. 4. Attach the description of the facility with a diagram indicating location of fences; pits, dikes and tanks on the facility. 5. Attach a description of all materials stored or used at the facility 6. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste 7. water must be included. Attach a description of current liquid and solid waste collection/treatment/disposal procedures. 8. Attach a description of proposed modifications to existing collection/treatment/disposal systems. 9. Attach a routine inspection and maintenance plan to ensure permit compilance. 10. Attach a contringency plan for reporting and clean-up of spills or releases. 11. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included. 12. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations 13. and/or orders. CERTIFICATION 14. thereby certify that the information submitted with this application is true and correct to the best of my knowledge and beliet.

Environmental Bureau Oil Conservation Division STATE OF NEW MEXICO OIL CONSERVATION DIVISION

# MEMORANDUM OF MEETING OR CONVERSATION

| Telephone [                                                                                                                                                      | Personal          | Time 11:30                            | AM            | Date           | 1-30-  | 96    |          |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|---------------|----------------|--------|-------|----------|--|
| •                                                                                                                                                                | Originating Party |                                       | Other Parties |                |        |       |          |  |
| Pat Sanche                                                                                                                                                       | 26 - OCD          |                                       | Mr.           | Gary           | Reid-  | Pate  | trucktry |  |
| Subject Discharge Plan Application Pate Trucking Holbs Yard.                                                                                                     |                   |                                       |               |                |        |       |          |  |
| Discussion                                                                                                                                                       |                   |                                       |               | - <del>1</del> |        |       |          |  |
| I Asked Mr. Reid about the Application and he said his consultant "Environmental SPILL                                                                           |                   |                                       |               |                |        |       |          |  |
| Control" (Allen Hodge/Wesley Rout) met with him 3-4 weeks ago and should have the Discharge Plan Application put together.  I let Mr. Reid Know that the 120 day |                   |                                       |               |                |        |       |          |  |
| Discharge                                                                                                                                                        | Plan A            | +pplication                           | 1 Pu          | + +            | ogethe | r     |          |  |
| deadline o                                                                                                                                                       | mr Reid           | hand.                                 | Tha           | ; <b>r</b> 1   | ne 1   | 20 a  | ay       |  |
| ·                                                                                                                                                                |                   |                                       |               |                |        |       |          |  |
| Conclusions or Agr                                                                                                                                               | reements          |                                       |               |                |        |       |          |  |
| Mr. Rei                                                                                                                                                          | d will g          | et with                               | hi5           | CON            | sultar | its a | nd       |  |
| see wha                                                                                                                                                          | t the             | hold up                               | is            |                |        |       |          |  |
|                                                                                                                                                                  |                   | · · · · · · · · · · · · · · · · · · · |               |                |        |       |          |  |
| Distribution File                                                                                                                                                | 2                 | Si                                    | gned $f$      | Alia)          | W. 5   | Jelly |          |  |
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# NEW MEXICO ENERGY, A VERALS AND NATURAL ROURCES DEPARTMENT

## OIL CONSERVATION DIVISION

September 26, 1995

# CERTIFIED MAIL RETURN RECEIPT NO.Z-765-963-066

Mr. Gary Reid Pate Trucking Co. P.O. BOX 639 Hobbs, NM 88241

**RE:** Discharge Plan Requirement

**Hobbs Facility** 

Lea County, New Mexico

Dear Mr. Reid:

Under the provision of the Water Quality Control Commission (WQCC) Regulations, Pate Trucking Co. is hereby notified that the filing of a discharge plan is required for the Pate Trucking Co. facilities located at 3800 South Eunice HWY Hobbs, New Mexico.

The discharge plan is required pursuant to Section 3-104 and 3-106 of the WQCC regulations. The discharge plan, defined in Section 1.101.Q of the WQCC regulations should cover all discharges of effluent or leachate at the facility site or adjacent to the facility site. Included in the plan should be plans for controlling spills and accidental discharges at the facility, including detection of leaks in buried underground tanks and/or piping.

Pursuant to Section 3-106.A, a discharge plan should be submitted for approval to the OCD Director within 120 days of receipt of this letter. Three copies of the discharge plan should be submitted.

Mr. Gary Reid September 26, 1995 Page 2

A copy of the regulations and guidelines have been provided to Pate Trucking Co. at a recent field inspection by OCD staff. Enclosed Pate Trucking Co. will find an application form to be used with the guidelines for the preparation of discharge plans at oil & gas service companies. The guideline addresses berming of tanks, curbing and paving of process areas susceptible to leaks or spills and the disposition of any solid wastes.

The discharge plan is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of fifty (50) dollars plus the flat rate of one thousand, three hundred and eighty (\$1380) dollars for oil & gas service companies. The fifty (50) dollar filing fee is due when the discharge plan is submitted. The flat rate fee is due upon approval of the discharge plan.

Please make all checks payable to: NMED Water Quality Management and addressed to the OCD Santa Fe office.

If there are any questions on this matter, please feel free to contact Patricio Sanchez at 827-7156 or Roger Anderson at 827-7152.

Sincerely,

William J. LeMa Director

WJL/pws

XC: Mr. Wayne Price and Mr. Jerry Sexton

# MEMORANDUM OF MEETING OR CONVERSATION

| TELEPHONE X PERSONAL TIME 10:45 AM PM DATE 9/26/95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ORIGINATING PARTY: Pat Sanchez OTHER PARTIES: Ruger Anderson, Mark ASHLEY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SUBJECT: Dischurge Plan Inspections / Reg. letters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DISCUSSION: DAVIS, Madasky PATE, Hydrotest, TIC TANK Rental, AND ROTARY Wireling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Discuss NEED FOR Discharge Plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| conclusions/AGREEMENTS: All these facilities will be required to submit discharge plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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# NEW MEXICO ENERGY, M VERALS AND NATURAL REOURCES DEPARTMENT

## **OIL CONSERVATION DIVISION**

September 20, 1995

# CERTIFIED MAIL RETURN RECEIPT NO.Z-765-963-056

Mr. Gary Reid PATE TRUCKING CO. P.O. BOX 639 Hobbs, NM 88241

RE: Discharge Plan Requirement Inspection Hobbs Facility Lea County, New Mexico

Dear Mr. Reid

Outlined below are the observations and findings made by the NMOCD team that recently inspected the Pate Trucking Co. facility at 3800 South Eunice HWY in Hobbs, New Mexico.

- 1. No lab at the facility.
- 2. Below grade sump present in the shop area.(grease pit)
  - i. Needs to cleaned and inspected yearly and documented.
  - ii. The sump needs to be isolated from the leech line by plugging the sump drain to the leech line and removing that portion of the leech line.
- 3. Class V. injection well(s) at the facility(i.e.) leech field(s) these will have to be investigated in order to determine the extent of possible groundwater contamination.

note: At the inspection on 9/12/95 Mr. Gary Reid was given a copy of the OCD unlined surface impoundment closure guidelines. The leech field(s) area(s) will have to be sampled - and a work plan for sampling and determining possible contamination will have to be submitted to the OCD Santa Fe office.

- 4. Surface impoundments. Future cat fish ponds for employees will have to bermed so that rainwater from the facility will not drain into the ponds.
- 5. Provide the NMOCD with a copy of the shop solvent.
- 6. All tanks, drums, and etc. need to meet OCD guidelines for secondary containment i.e. fuel area. (This guidelines were provided during the inspection to Mr. Reid.)
- 7. No written spill contingency plan.

Mr. Gary Reid September 20, 1995 Page 2

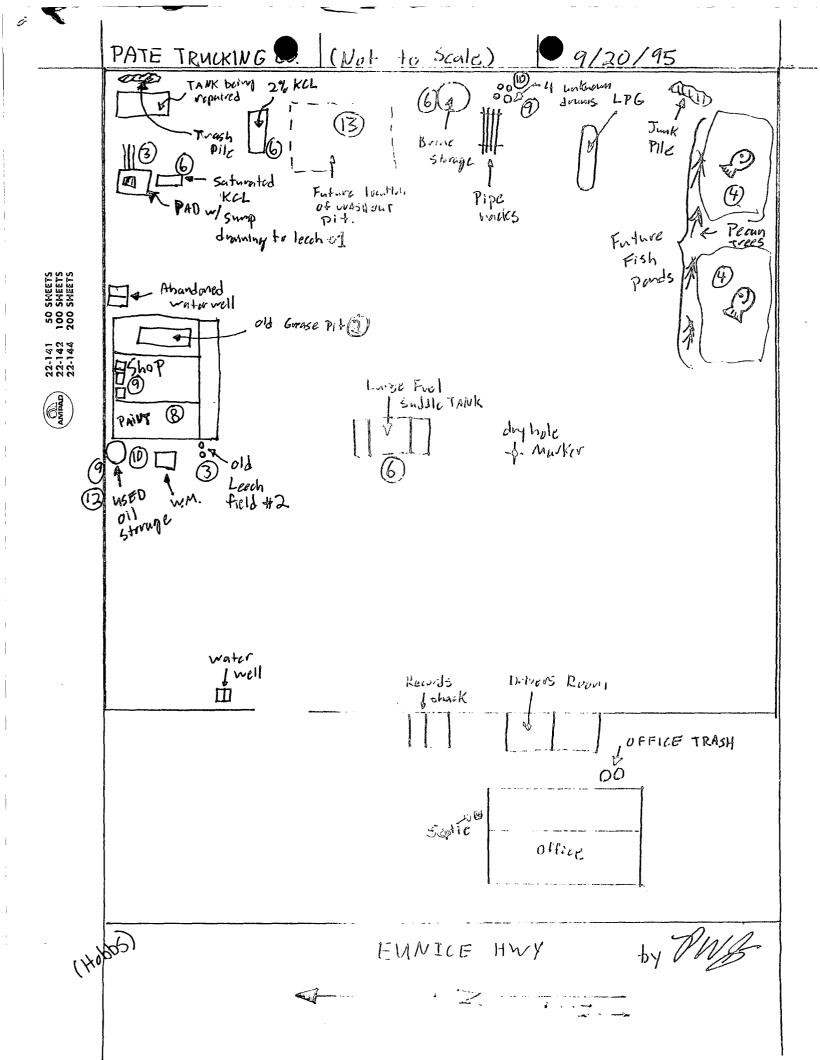
- 8. Painting is done at the facility. Be careful with hazardous solvents.
- 9. Empty drums, used oil, used filters need to be stored and disposed of in a manner approved by OCD. The current method of draining the filters and using waste management is okay as long as waste management approves. Be careful on used oil storage for periods longer than one year.
- 10. Items need to be properly and clearly labelled. (i.e. used oil storage tank)
- 11. Oil contaminated soil(s) need to be cleaned up according to NMOCD spill and leak guidelines a copy of which was made available by the NMOCD inspectors.
- 12. It is the recommendation of the OCD that the used oil tank be stored on secondary containment per the discharge plan guidelines that were made available during the inspection.
- 13. Use the OCD guidelines for constructing the proposed wash pit submit construction drawings to the NMOCD Santa Fe office for approval. The actual construction of the secondary containment and leak detection needs to be witnessed by Mr. Wayne Price of the Hobbs OCD office.

If you have any questions regarding this matter please feel free to call me at (505)-827-7156. See the attached diagram for reference.

Sincerely,

Patricio W. Sanchez Petroleum Engineer

xc: Mr. Wayne Price, Mr. Jerry Sexton



# Z 765 963 056

Receipt for
Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

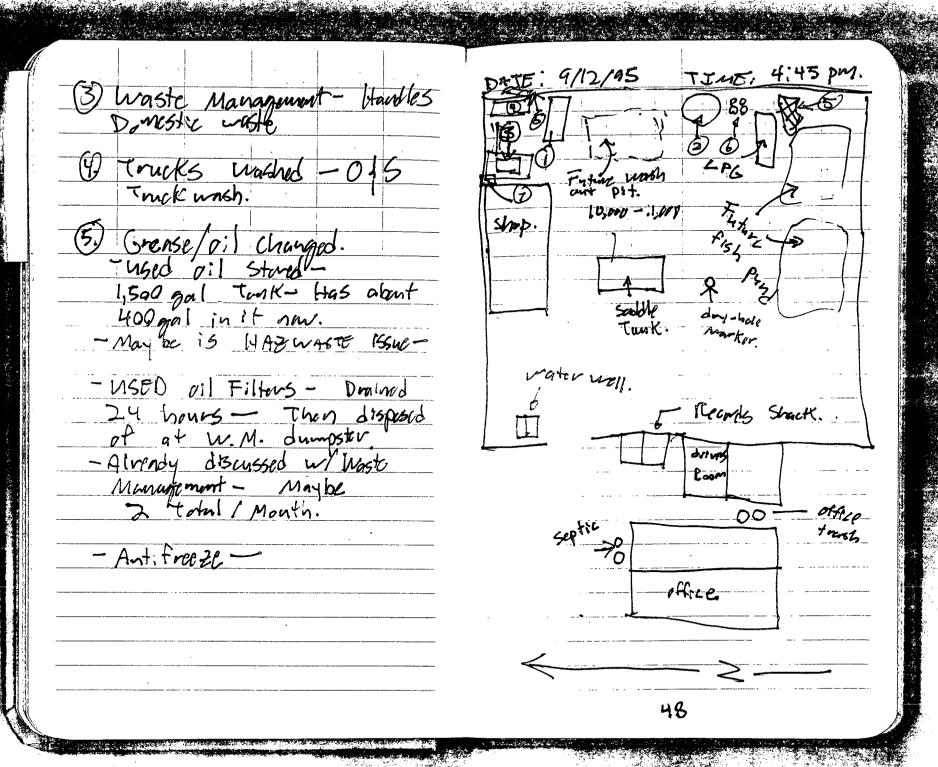
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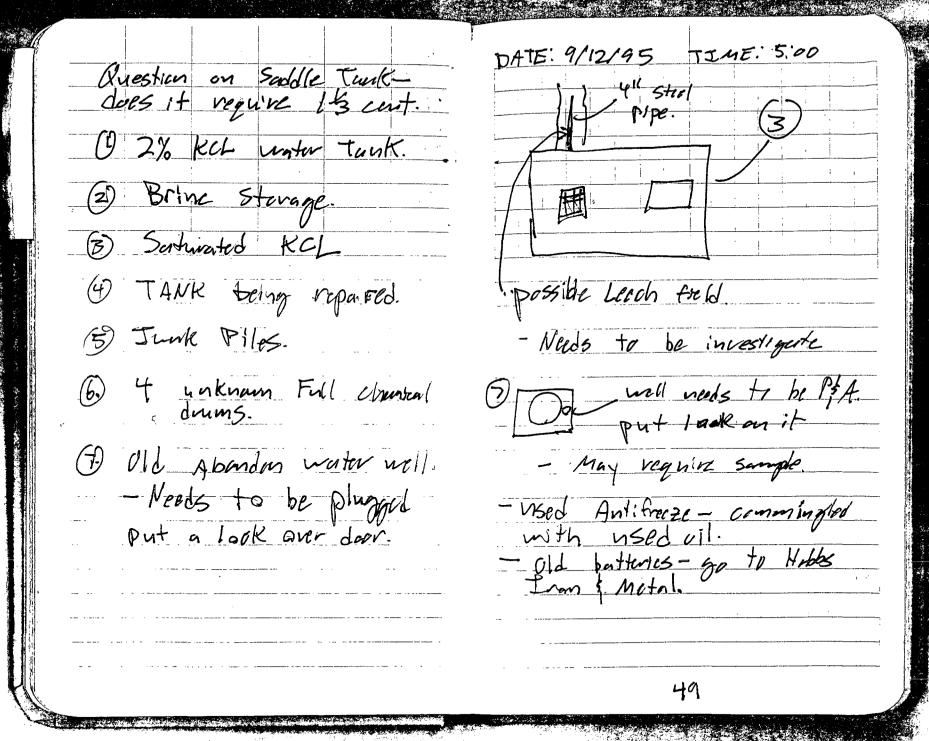
# NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

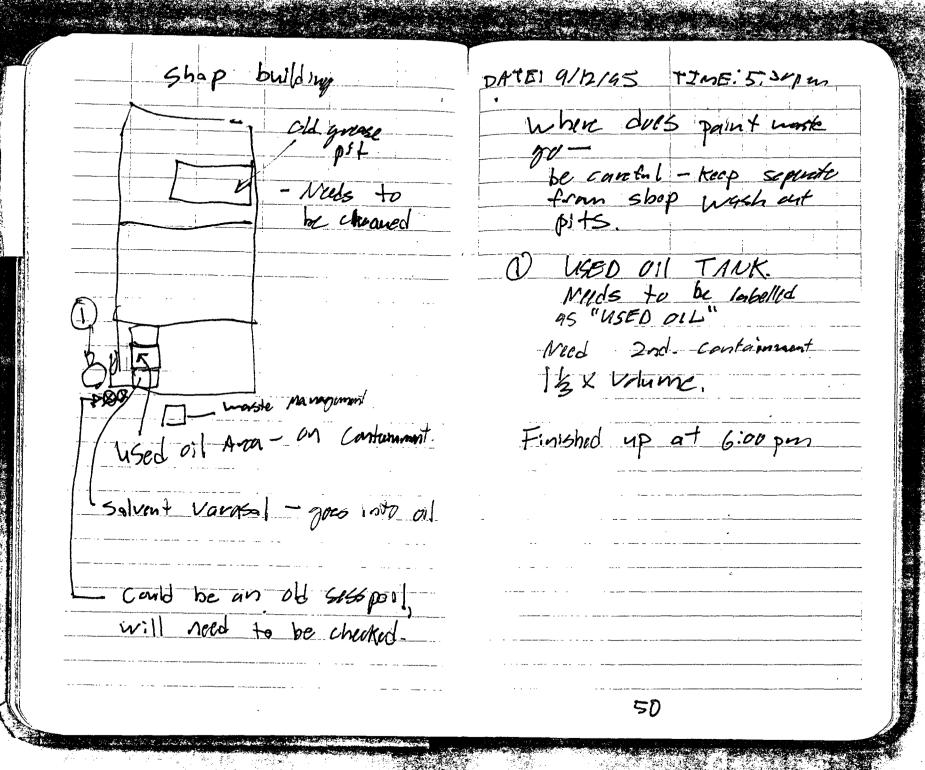
# INSPECTION CHECKLIST FOR OILFIELD SERVICE COMPANIES

| FACILITY NAME: ATE TRUCKING CO. OPERATOR: DATE: 9/12/95 LOCATION: 3800 5 EUNICE HWY                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMPANY REP(S): GARY REID                                                                                                                                                                                                                                                                       |
| NMOCD REP(S): WHYNE PRICE MAKE ASHLEY, I'ME SAWENEZ                                                                                                                                                                                                                                             |
| SERVICE COMPANY TYPE: OIL FIELD TRUCK CO.                                                                                                                                                                                                                                                       |
| 1. LAB PRESENT ( YES NO)                                                                                                                                                                                                                                                                        |
| 2. Below grade sumps or tanks. (YES) / NO)                                                                                                                                                                                                                                                      |
| 3. Class IV or V Injection well(s). (YES)/ NO) - 2 of Them.                                                                                                                                                                                                                                     |
| 4. Surface impoundments (pits) of any kind. (YES)/ NO )- PON 1                                                                                                                                                                                                                                  |
| 5. Hazardous shop solvents present. (YES)/NO)                                                                                                                                                                                                                                                   |
| 6. All tank/drum/fuel/lube oils stored onsite meet OCD guidelines for service company facilities, (i.e. berming and                                                                                                                                                                             |
| pad and curb type containments.) ( YES / NO)                                                                                                                                                                                                                                                    |
| 7. A written spill contingency plan posted/available and                                                                                                                                                                                                                                        |
| implemented at the facility ( Can be viewed at the                                                                                                                                                                                                                                              |
| facility by OCD) ( YES /NO)                                                                                                                                                                                                                                                                     |
| 8. Wet paint waste stored at the facility-all paint cans dried                                                                                                                                                                                                                                  |
| before disposal. (YES / NO ) // . 9. All wash facilities for vehicles on a pad and curb type                                                                                                                                                                                                    |
| containment. (YES / NO )                                                                                                                                                                                                                                                                        |
| 10. Maximum volumes: (YES) NO)                                                                                                                                                                                                                                                                  |
| A. Chemical type drums < 25 @ 55 gal/drum or an aggregate volume of 1375 gal of chemical product.  B. Fuel < 660 gal in above grade tank(s) lo, wo gol C. Used oil < 660 gal in above grade tank(s) D. Lube oil < 660 gal in above grade tank(s) E. Maximum total volume of A thru D < 3355 gal |
| 11. All wastes such as empty drums, buckets, oil filters, and etc stored/disposed by an OCD approved method. (YES NO)                                                                                                                                                                           |
| 12. All items that contain fluids are properly labelled.  ( YES (NO)                                                                                                                                                                                                                            |
| 13. All stormwater contained within the facility.                                                                                                                                                                                                                                               |
| ( YES NO                                                                                                                                                                                                                                                                                        |
| COMMENTS: 1-010 WATER WELL OPEN HOLE- NORTH                                                                                                                                                                                                                                                     |
| POPERTY LINE-                                                                                                                                                                                                                                                                                   |
| 1-010 sump with war going To possible                                                                                                                                                                                                                                                           |
| CLASS IN A I WELL EAST OF SHOP                                                                                                                                                                                                                                                                  |
| 1-old Spptic wast of Shop                                                                                                                                                                                                                                                                       |
| 4- UNKNOWN CHEPICAL DRUMS EAST PERENTY LINE                                                                                                                                                                                                                                                     |
| FRASH WATER 5th At 2905 21 MARLAND & Pit CLOSURE!!                                                                                                                                                                                                                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DATE: 9/12/95 TIME: 4:30 pm                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PATE TRUCKING                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | T III                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mr. Gary Reid                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Street Address:                                                                       |
| DUMP TRUCKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3800 South Ennile HWY.                                                                |
| FORKLIFTS     KILL TRUCKS     FOR BACKHOES     PIPE HAULING     FOR BBL FRAC TANK LINED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |
| PATE TRUCKING CO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - Looking at installing a                                                             |
| P.O. BOX 639 HOBBS. NEW MEXICO 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mashout pit - already has the                                                         |
| OFFICE (505) 397-6264 or 397-6314                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | guidelines.                                                                           |
| FAX (505) 397-2597  GARY REIC MOBILE PHONE Hes (505) 393-4866 (505) 393-0500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | [2905 W. Marland                                                                      |
| (505) 397-9536                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20105 OV. TOTAVIANIE                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2nd yord w/ Soil 9                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | pit Needs to submit a                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | closure.                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - pit stond on Plustic.                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Has a consultent taking care of - 4 Report being put together.                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -Entire yard on Marland rented                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | from Larry Squires.                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1) Sowage - Goes to a Septil.  Junk - Unly Sinks Toilets.  2) Well ensite - Okay.  47 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (2) Well ensite - Okay.                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 47                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                     |
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