GW - 295

GENERAL CORRESPONDENCE

YEAR(S):

2005-1997

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

March 30, 2005

Mr. Lee Davis
Smith International, Inc.
P.O. Box 60068
Houston, Texas 77205-0068

RE: Site Assessment and Remediation Work Plan
B & B Machine Shop GW-295
Lea County, New Mexico

Dear Mr. Davis:

The New Mexico Oil Conservation Division (OCD) received the "Report of Phase II Environmental Site Assessment and Site Remediation Work Plan" for the facility located at 1120 West Bender Road, Hobbs, New Mexico, in the SE/4 SW/4 of Section 21, Township 187 South, Range 38 East, NMPM, Lea County, New Mexico. The work plan, dated February 28, 2005, was submitted by your company, Smith International, Inc. and prepared by 3-D Environmental, Inc. on behalf of Smith International, Inc. **The Site Work Plan is hereby approved, with the following conditions:**

- A copy of the work plan shall also be provided to the OCD Hobbs District Office to the attention of Mr. Paul Sheeley and notification provided to Mr. Sheeley at least 48 hours prior to commencement of work.
- All of the items listed in the work plan, dated February 28, 2005, from 3-D Environmental, Inc. on behalf of Smith International, Inc. shall be adhered to during the Site Remediation process.
- Any changes or modifications of the work plan shall be submitted to the OCD Santa Fe office for approval.
- A final report shall be submitted to the Santa Fe OCD office for review and approval within 30 days of completion of the project.

Note that OCD approval does not limit Smith International, Inc. to the work proposed should it later be found that contamination exists which is beyond the scope of this plan, or if 3-D Environmental, Inc. has failed to completely define the extent of contamination. In addition, OCD approval does not relieve Smith International, Inc. of responsibility for compliance with any other Federal, State, or other Local Laws and Regulations.

If you have any questions please contact me at (505) 476-3489.

Sincerely,

W. Jack Ford, C.P.G.
Environmental Bureau
Oil Conservation Division

cc: OCD Hobbs District Office
Mr. Kurt Lampi, 3-D Environmental, Inc.

SMITH INTERNATIONAL, INC.

P.O. Box 60068
Houston, Texas 77205-0068

Tel: 281/443-3370

March 15, 2004

Jack Ford
Oil Conservation Division
New Mexico Energy, Minerals and Nat. Res. Dept.
1220 S. St Francis Dr.
Santa Fe, NM 87505

Re: Submit *Report of Phase II Environmental Site Assessment and Site Remediation Work Pllan* for 1120 W. Bender Blvd., Hobbs.

Dear Jack:

The enclosed report of environmental assessment and the plan for remediation dated 2/28/05 is submitted for your approval to proceed as proposed. The report was prepared by our consultant, 3-D Environmental, Inc.

Smith International, Inc. will use the New Mexico Environmental Dept. risk based Soil Screening Levels, Revision 2.0, dated February 2004 and any updates for soil cleanup criteria. WQCC Regulations dated September 15, 2002 will be referenced should ground water impact become a possibility.

If you have any questions please call me at 281-233-5401.

Sincerely,

L. Davis

Lee Davis
Mgr., Environmental Affairs

cc: Maury Sticker / file- Houston
Vivian Cline, Sii Legal- Houston
Kurt Lampi, 3-D Environ.- Tulsa, OK

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.

of 1

weeks.

Beginning with the issue dated

June 27 2003

and ending with the issue dated

June 27 2003

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 27th day of

June 2003

Jodi Henson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

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.

LEGAL NOTICE
June 27, 2003

DRAFT PUBLIC 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(s) have 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-295) – Smith Services (formerly B & B Machine Shop), Mr. Maurice Sticker, (505) 393-4964, 1120 West Bender Blvd., Hobbs, New Mexico 88240, has submitted a discharge renewal application for the Smith Services (formerly B & B Machine Shop) Hobbs Facility located in Section 21, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 30 gallons per month of waste motor oils are collected in drums then transported offsite for disposal. Approximately 2 gallons per month of used solvents are recycled on site. Scrap metals are collected in barrels and transported off site for recycling. Ground water most likely to be affected in the event of an accidental discharge is at an estimated depth of 50 feet with a total dissolved solids concentration ranging from 390 to 480 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(s) 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 application(s), 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 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(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 14th day of May 2003.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

(SEAL)

LORI WROTENBERY, Director
#19943

01100060000 67514989
State of New Mexico Oil &
1220 S. St. Francis
Santa Fe, NM 87505

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 permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-296) – Flatrock Energy Partners on behalf of Raptor Gas Transmission LLC, operated by ConocoPhillips Midstream Operations, Joyce Miley, (281) 293-4498, P.O. Box 2197-Humble 3036, Houston, Texas 77252-2197, has submitted a discharge permit renewal application for the Cedar Canyon Compressor Station located in the SE/4 SE/4 of Section 9, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico. All wastes generated will be stored in closed top receptacles prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 1000 mg/l. Natural gas products, waste oil and water is stored in above ground tanks prior to being transported off-site to OCD approved facilities. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-143) – Flatrock Energy Partners on behalf of Raptor Gas Transmission LLC, operated by ConocoPhillips Midstream Operations, Joyce Miley, (281) 293-4498, P.O. Box 2197-Humble 3036, Houston, Texas 77252-2197, has submitted a discharge permit renewal application for the Cal-Mon Compressor Station located in the NW/4 NW/4 of Section 35, Township 23 South, Range 31 East, NMPM, Eddy County, New Mexico. All wastes generated will be stored in closed top receptacles prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 3500 mg/l. Natural gas products, waste oil and water are stored in above ground tanks prior to being transported off-site to OCD approved facilities. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-136) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge plan renewal application for the Williams Field Services 29-7 #1 CDP Compressor Station located in the NE/4 SE/4 of Section 15, Township 29 North, Range 7 West, NMPM, Rio Arriba County, New Mexico. Approximately 5000 to 15000 gallons per year of waste water is stored in an above ground storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the waste water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 50 to 200 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-149) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge plan renewal application for the Williams Field Services El Cedro Compressor Station located in the NW/4 of Section 31, Township 29 North, Range 5 West, NMPM, San Juan County, New Mexico. Approximately 1000 to 4000 barrels per year of processed water is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the waste water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of approximately 145 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-295) – Smith Services (formerly B & B Machine Shop), Mr. Maurice Sticker, (505) 393-4964, 1120 West Bender Blvd., Hobbs, New Mexico 88240, has submitted a discharge renewal application for the Smith Services (formerly B & B Machine Shop) Hobbs Facility located in Section 21, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 30 gallons per month of waste motor oils are collected in drums then transported offsite for disposal. Approximately 2 gallons per month of used solvents are recycled on site. Scrap metals are collected in barrels and transported off site for recycling. Ground water most likely to be affected in the event of an accidental discharge is at an estimated depth of 50 feet with a total dissolved solids concentration ranging from 390 to 480 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-045) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge plan renewal application for the Williams Field Services Kutz Canyon Gas Processing Plant facility located in the SW/4 of Section 12, NE/4 of Section 13, SE/4 of Section 14, Township 28 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 1 to 1.5 million gallons per year of process waste water is disposed of in an OCD approved double lined evaporation pond with leak detection. The total dissolved solids (TDS) of the waste water is approximately 1,500 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is shallow perched water with TDS concentrations ranging from 8,000 to 18,000 mg/l. Deeper ground water is at a depth of 200 feet with estimated total dissolved solids concentration ranging from 2,000 to 4,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-129) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge plan renewal application for the Williams Field Services Crouch Mesa CDP Compressor Station located in the SE/4 NE/4 of Section 23, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 1000 to 4000 barrels per year of processed water is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the waste water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 200 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-133) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge plan renewal application for the Williams Field Services 30-8 CDP Compressor Station located in the SW/4 SE/4 of Section 32, Township 31 North, Range 8 West, NMPM, San Juan County, New Mexico. Approximately 1000 to 4000 barrels per year of processed water is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the waste water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 220 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-134) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge plan renewal application for the Williams

SMITH INTERNATIONAL, INC.

16740 Hardy Street
P.O. Box 60068
Houston, Texas 77205-0068

Tel: (281)443-3370

Maurice (Maury) Sticker
Director, Environmental Affairs
Phone: 281-233-5092
Mobile: 281-433-9592
Fax: 281-233-5620
E-Mail: msticker@smith.com

February 27, 2003

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Dear Sir or Madam:

Attached are the original and one copy of a renewal Discharge Plan Application for the Smith Services oil field machine shop located at 1120 West Bender Road in Hobbs, New Mexico. As instructed we are also sending a copy of this application to the District I office in Hobbs.

If you have any questions, please call me at (281) 233–5092.

Sincerely,

Maurice M. Sticker, Jr.
Director, Environmental Affairs

cc: OCD District I —1625 N. French Dr., Hobbs, NM 88240

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

November 22, 2002

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 9291

Mr. David Taylor
Star Tool Company-B&B Machine Shop
P.O. Box 2008
Hobbs, New Mexico 88241

RE: Discharge Plan GW-295 Renewal
Star Tool Company-B&B Machine Shop Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Taylor:

On May 4, 1998, the renewal discharge plan, GW-295, for the Star Tool Company-B&B Machine Shop Hobbs Service Facility located in Section 21, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on May 4, 2003.**

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to 20 NMAC 6.2. 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Star Tool Company-B&B Machine Shop has made or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the **Star Tool Company-B&B Machine Shop Hobbs Service Facility** is subject to WQCC Regulation 20 NMAC 6.2.3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of $100.00 plus a flat fee equal to $1,700.00 for oil field service company facilities. The $100.00 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

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 and forms is available on OCD's website at **www.emnrd.state.nm.us/ocd/**).

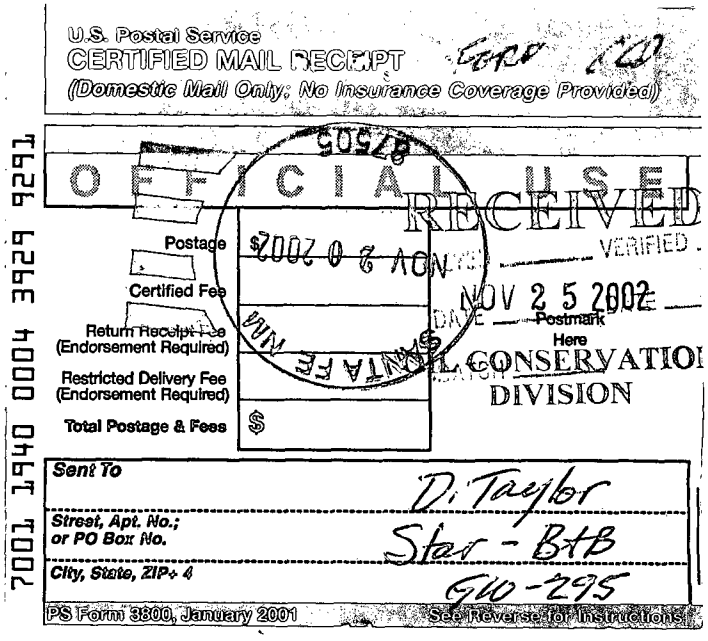
If the Star Tool Company-B&B Machine Shop's Hobbs Service Facility no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If the Star Tool Company-B&B Machine Shop has any questions, please do not hesitate to contact Mr Jack Ford at (505) 476-3489.

Sincerely,

Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/wjf

cc: OCD Hobbs District Office



Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
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.

That the notice which is hereto attached, entitled

Legal Notice

Notice of Publication

~~and numbered~~ .... ~~in the~~

.... ~~County of Lea~~

~~County, New Mexico,~~ was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~once each week on the~~ ~~same day of the week~~ for one (1) day ~~consecutive weeks~~, beginning with the issue of

April 3, 1998

and ending with the issue of

April 3, 1998

And that the cost of publishing said notice is the sum of $50.40

which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 3rd

day of April, 1998

Jean Sevier

Notary Public, Lea County, New Mexico

My Commission Expires September 28 1998

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

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

(GW-295) - B&B Machine Shop, David Taylor, (505) 393-4964, 1120 West Bender Blvd., Hobbs, New Mexico 88240, has submitted a discharge application for the B&B Machine Shop Hobbs Facility located in Section 21, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 30 gallons per month of waste motor oils are collected in drums then transported off site for disposal. Approximately 2 gallons per month of used solvents are recycled on site. Scrap met- [illegible] held, the Director will approve or disapprove the proposed plan(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 27th day of March, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY, Director

SEAL

Published in the Lovington Daily Leader April 3, 1998.

The Santa Fe New Mexican
Since 1849 We Read You

NM OCD
ATTN: SALLY MARTINEZ
2040 S. PACHECO ST.
SANTA FE, NM 87505

AD NUMBER: 18583 ACCOUNT: 56689
LEGAL NO: 63273 P.O. #: 98-199-000257

169 LINES ONCE at $ 67.60
Affidavits: 5.25
Tax: 4.55
Total: $ 77.40

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, BETSY PERNER being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily news paper 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 # 63273 a copy of which is hereto attached was published in said newspaper once each WEEK for ONE consecutive week(s) and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 3 day of APRIL 1998 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ Betsy Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 3 day of APRIL A.D., 1998

Notary B. Mathie
Commission Expires 3-13-2001

OFFICIAL SEAL
B. MATHIE
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 3-13-2001

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(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-295) - B & B Machine Shop, David Taylor, (505) 393-4964, 1120 West Bender Blvd., Hobbs, New Mexico 88240, has submitted a discharge application for the B & B Machine Shop Hobbs Facility located in Section 21, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 30 gallons per month of waste motor oils are collected in drums then transported offsite for disposal. Approximately 2 gallons per month of used solvents are recycled on site. Scrap metals are collected in barrels and transported off site for recycling. Ground water most likely to be affected in the event of an accidental discharge is at an estimated depth of 50 feet with a total dissolved solids concentration ranging from 390 to 480 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(s) 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 application(s), 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 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(s) based on information available. If a public hearing is held, the Director will approve the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 27th day of March 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY,
Director

Legal #63273
Pub. April 3, 1998

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

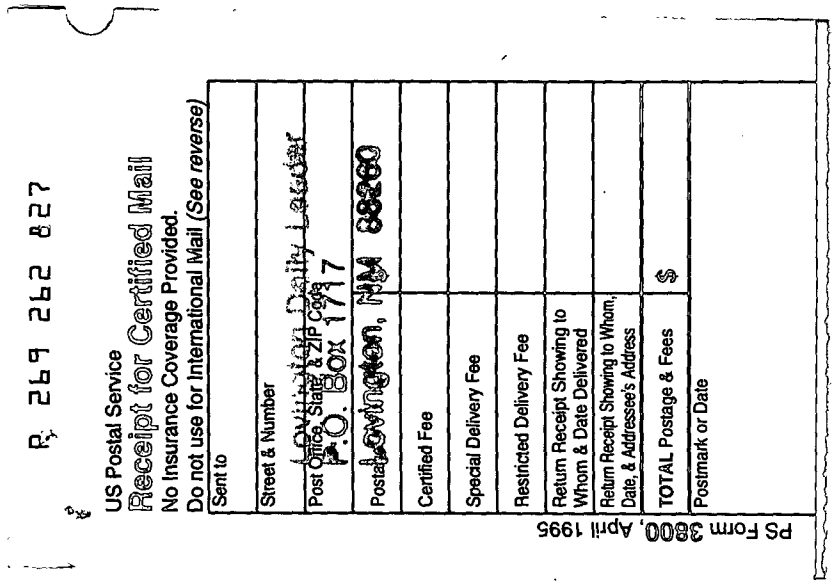
March 31, 1998

Lovington Daily Leader
Attention: Advertising Manager
Post Office Box 1717
Lovington, New Mexico 88260

Re: Notice of Publication

_____
_____
_____

Dear Sir/Madam:



Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. ***Publisher's affidavit in duplicate.***
2. ***Statement of cost (also in duplicate).***
3. ***Certified invoices for prompt payment.***

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than April 6, 1998.

Sincerely,

Sally Martinez
Administrative Secretary

Attachment

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

March 31, 1998

The New Mexican
***Attention:** Betsy Perner*
202 East Marcy
Santa Fe, New Mexico 87501

Re: Notice of Publication
PO # 98-199-00257

Dear Ms. Perner:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. ***Publisher's affidavit.***
2. ***Invoices for prompt payment.***

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than Friday, April 3, 1998.

Sincerely,

Sally Martinez

Sally Martinez
Administrative Secretary

Attachment

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(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-295) - B & B Machine Shop, David Taylor, (505) 393-4964, 1120 West Bender Blvd., Hobbs, New Mexico 88240, has submitted a discharge application for the B & B Machine Shop Hobbs Facility located in Section 21, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 30 gallons per month of waste motor oils are collected in drums then transported offsite for disposal. Approximately 2 gallons per month of used solvents are recycled on site. Scrap metals are collected in barrels and transported off site for recycling. Ground water most likely to be affected in the event of an accidental discharge is at an estimated depth of 50 feet with a total dissolved solids concentration ranging from 390 to 480 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(s) 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 application(s), 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 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(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 27th day of March, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

for LORI WROTENBERY, Director

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 2/17/98,

or cash received on _____ in the amount of $ 50.00

from Star Tool

for Hobbs Facility (Facility Name) GW-295 (OP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: [signature] Date: 3/12/98

Received in ASD by: _____ Date: _____

Filing Fee X New Facility ___ Renewal ___

Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 98

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

STAR TOOL CO.
P.O. BOX 2008
HOBBS, NEW MEXICO 88241

LEA COUNTY STATE BANK
P.O. BOX 400
HOBBS, NEW MEXICO 88241-0400

95-169/1122
5

Vendor No.	Check Date		Check No.	Amount of Check
60250	2/17/98	****50 Dollars And No Cents**	[redacted]	$50.00

Pay to the order of New Mexico Oil Conservation
2040 S. Pacheco
Santa Fe, NM 87505

By STAR TOOL CO.

[redacted]

STAR TOOL CO. P.O. BOX 2008 HOBBS, NEW MEXICO 88241

Invoice Date	Invoice Number	Description	Gross Amount	Discount	Net Amount
2/17/98	2/17/98		50.00		50.00

RECEIVED
FEB 18 1998
Environmental Bureau
Oil Conservation Division

GW-295

Vendor Number	Check Date	Check Number	Check Amount
60250	2/17/98	[redacted]	50.00

DETACH BEFORE DEPOSITING CHECK

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN

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(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-295) - B & B Machine Shop, David Taylor, (505) 393-4964, 1120 West Bender Blvd., Hobbs, New Mexico 88240, has submitted a discharge application for the B & B Machine Shop Hobbs Facility located in Section 21, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 30 gallons per month of waste motor oils are collected in drums then transported offsite for disposal. Approximately 2 gallons per month of used solvents are recycled on site. Scrap metals are collected in barrels and transported off site for recycling. Ground water most likely to be affected in the event of an accidental discharge is at an estimated depth of 50 feet with a total dissolved solids concentration ranging from 390 to 480 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(s) 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 application(s), 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 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(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 27th day of March, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

for LORI WROTENBERY, Director

STAR TOOL CO. P.O. BOX 2008 HOBBS, NEW MEXICO 88241

Invoice Date	Invoice Number	Description	Gross Amount	Discount	Net Amount
2/17/98	2/17/98		50.00		50.00

RECEIVED
FEB 18 1998
Environmental Bureau
Oil Conservation Division

GW-295

Vendor Number	Check Date	Check Number	Check Amount
60250	2/17/98	[redacted]	50.00

DETACH BEFORE DEPOSITING CHECK

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN

STAR TOOL CO.
P.O. BOX 2008
HOBBS, NEW MEXICO 88241

LEA COUNTY STATE BANK
P.O. BOX 400
HOBBS, NEW MEXICO 88241-0400

95-183/1122
5

Vendor No.	Check Date	Check No.	Amount of Check
60250	2/17/98******50 Dollars And No Cents**	[redacted]	$50.00

Pay to the order of
New Mexico Oil Conservation
2040 S. Pacheco
Santa Fe, NM 87505

By STAR TOOL CO.

[redacted]

Llano-Permian Environmental Services

Amarillo, Texas **Midland, Texas**

December 1, 1997

Mr. Roger Anderson
Environmental Bureau Chief
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

RE: Discharge Plan Application

Dear Mr. Anderson:

Please find enclosed for your review two copies of the Discharge Plan Application for B&B Machine Shop of Hobbs, (Lea County) New Mexico. The purpose of this application is to meet the requirements of WQCC regulations 3106 and 3107. B&B Machine is located at 1120 West Bender Boulevard in Hobbs. The primary function of this facility is the repair and modification of down-hole fishing tools. Also enclosed is the filing fee of fifty dollars ($50.00) as required by WQCC 3114 payable to the NMED Water Quality Management Fund.

Should you have any questions or require additional information, you may contact me at (915) 522-2133 or Mr. Don Gerth at (505) 392-6506.

Sincerely,
Llano-Permian Environmental Services

Chris E. Stapp
Project Manager

Enclosures:
1. Discharge Plan Application (2 copies)
2. $50.00

cc:
Wayne Price, OCD District I (1 copy)
David Taylor, Star Tool Co. (1 copy)
File: 104-013 (1 copy)

DISCHARGE PLAN

B&B Machine Shop
1120 West Bender Boulevard
Hobbs, Lea County, New Mexico 88240

RECEIVED
FEB 18 1998
Environmental Bureau
Oil Conservation Division

December 1997

Prepared For:

Mr. David Taylor, President
Star Tool Company
P.O. Box 2008
Hobbs, New Mexico 88241

Prepared By:

Chris E. Stapp
Llano-Permian Environmental Services
1031 Andrews Hwy., Suite 207B
Midland, Texas 79701

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 Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Revised 12/1/95

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

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

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

■ New ❑ Renewal ❑ Modification

1. Type: Oil field service company; machine shop for repair and modification of down-hole tools

2. Operator: B&B Machine Shop

   Address: 1120 West Bender Blvd. Hobbs, New Mexico 88240

   Contact Person: Mr. Don Gerth Phone: (505) 393-4964

3. Location: not available /4 not available /4 Section 21 Township 18S Range 38E

   Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.

5. Attach the description of the facility with a diagram indicating location of the fences, pits, dikes and tanks on the facility.

6. Attach a description of all materials stored or used at the facility.

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.

10. Attach a routine inspection and maintenance plan to ensure permit compliance.

11. Attach a contingency 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 a facility closure plan, and 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.

Name: Mr. David Taylor Title: President

Signature: David J. Taylor Date: 1-26-98

TABLE OF CONTENTS

ATTACHMENTS:

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES
B&B Machine
Hobbs, New Mexico

I. Type of Operation

B&B Machine is a machine shop used primarily for the repair and modification of down-hole fishing tools.

II. Name of Operator and Local Representative

Mr. Don Gerth
B&B Machine Shop
1120 West Bender Boulevard
Hobbs, (Lea County) New Mexico 88240

III. Location of Discharge

Section 21, Township 18S, Range 38E

7.99 Acres LOC SE 4

Beginning at a point 89°59'00" East 807.95 feet and North 0°9'11" West 40 feet from the Southeast corner of subsection 4 of Section 12 T18S R38E, thence North 0°9'11 West 385.53 feet, North 89°50'7" East 22.7 feet South corner Pemco property, North 50°29' East 465.65 feet to East corner Pemco property, point also being westerly of right of way for TNMRR, South 39°31' East 721.55 feet along westerly right of way of TNMRR to point being the Northeast corner of SPS Company property, South 89°55'27" West 297.78 feet to 0°1'7" East 124.72 feet to North right of way for Bender Boulevard to a point also being the Southwest corner of SPS Company property, South 89°59' West 541.85 feet.

IV. Name and Address of Landowner of the Facility

Jimmy & Jean Dinsmore
Star Tool Company
P.O. Box 2008
Hobbs, New Mexico 88241

V. Description of the Facility

B&B Machine is a machine shop used primarily for the repair and modification of down-hole fishing tools. The facility lies in Hobbs, Lea County, New Mexico. It is bordered to the South by West Bender Boulevard and to the East/Northeast by the Lovington Hwy. This area of Hobbs is mostly comprised of industrial facilities.

Two primary structures are located on the property, the machine shop and the welding shop (ref. Attachment I, Site Drawing). In addition to machining operations, the machine shop includes offices, a bathroom, a breakroom, waste storage areas, chemical and parts storage areas, painting operations, and drill presses. Both facilities are set on concrete slabs with corrugated metal walls and roofing. Caliche and gravel drive ways and parking areas and open caliche material storage areas surround both facilities. The entire facility is enclosed with chainlink fence. Immediately South of the facilities are the caliche and gravel parking areas. To the East of the machine shop is the main caliche and gravel driveway and further to the east is an electrical substation owned and operated by Southwestern Public Service Company. The North side of the property is used for storage of miscellaneous parts and materials used in both the machine shop and welding shop. Also found in this area is an non-operational well house and two storage bins, one for the collection of metal shavings and one for the collection of various types of scrap metal. Wastes and chemical products used by B&B Machine are stored and collected primarily in the machine shop and infrequently in the welding shop. Wastes generated at the facility are collected in drums of various size and composition. All wastes and product containers with a capacity of more than 5 gallons are stored in sufficient secondary containment systems. On the Northeast corner of the machine shop is a septic tank and leach field system used solely for sanitary sewage purposes.

VI. Description of all Materials Stored or Used at the Facility

See Table 6-1 on the following page, (ref. Attachment II, Required MSDSs).

TABLE 6-1
Materials Stored or Used at the Facility
B&B Machine Shop
Hobbs, New Mexico

Name	General Makeup or Specific Brand Name (if requested)	Solids or Liquids	Type of Container (tank, drums, etc.)	Estimated Volume Stored	Location (yard, shop, drum storage, etc.)
Drilling fluids (includes general makeup and special additives - e.g., oil, chrome, etc.)	N/A	N/A	N/A	N/A	N/A
Brines-(KCl, NaCl, etc.)	N/A	N/A	N/A	N/A	N/A
Acids/Caustics (provide names and MSDS)	Muriatic Acid	Liquid	Plastic Jug	1 gallon	Bathroom
Detergents/Soaps	N/A	N/A	N/A	N/A	N/A
Solvents & Degreasers, (provide names and MSDS)	Aqua Sol 20/20 TH-3 Paint Thinner Zep Reach Naptha/Minrl Spirits	Liquid Liquid Liquid Liquid	Carton Metal Can Metal Can Tank	10 gallons 5 gallons 6 gallons 300 gallons	Machine Shop Machine Shop Machine Shop Machine Shop
Paraffin Treatment/ Emulsion Breakers (provide names and MSDS)	N/A	N/A	N/A	N/A	N/A
Biocides (provide names and MSDS)	N/A	N/A	N/A	N/A	N/A
Others - (include other liquids and solids, e.g., cement, etc.)	Weld Aid Nozzle Kleen Nozzle Dip Gel Lube Matic Applic. Lube Matic 1620 Anti Spatter Oxygen Acetlylene Carbon Dioxide Nitrogen Beeswax Polish Bye Insecticide Spray Hot Springs Cleaner Fire Ant Insecticide Metal Armor Kerosene Power Play End Spat Lubra Torque Lubra Lift	Liquid Liquid Gel (Semi-Liq) Solid Liquid Liquid Comprssd Gas Comprssd Gas Comprssd Gas Comprssd Gas Liquid Liquid Liquid Liquid Liquid Liquid Liquid Liquid Liquid Liquid	Aerosol Aerosol Glass Jar Sponge Aerosol Aerosol CG Cylinder CG Cylinder CG Cylinder CG Cylinder Metal Can Metal Can Plastic Jug Metal Can Metal Can Metal Can Metal Can Metal Can Plastic Jug Plastic Jug	72 ounces 72 ounces 1 quart 3 sponges 12 ounces 24 ounces 8 cylinders 8 cylinders 5 cylinders 5 cyclinders 12 ounces 12 ounces 1 gallon 12 ounces 72 onces 1 gallon 48 ounces 24 ounces 1 gallon 1 gallon	Machine Shop Welding Shop Welding Shop Welding Shop Welding Shop Machine Shop Machine Shop Both Shops Machine Shop Machine Shop Machine Shop Machine Shop Machine Shop Machine Shop Machine Shop Behind Shop Machine Shop Machine Shop Machine Shop Machine Shop

Name	General Makeup or Specific Brand Name (if requested)	Solids or Liquids	Type of Container (tank, drums, etc.)	Estimated Volume Stored	Location (yard, shop, drum storage, etc.)
Others Continued	T-Lube Aerosol	Liquid	Aerosol	24 ounces	Machine Shop
	Over-Coat	Liquid	Aerosol	72 ounces	Machine Shop
	Free w/moly Aerosol	Liquid	Aerosol	24 ounces	Machine Shop
	Propane (HD-5)	Comprssd Gas	CG Cylinder	2 cylinders	Behind Shop
	Citgo Cutting Oil	Liquid	Drum	55 gallons	Machine Shop
	Kutwell 40	Liquid	Drum	110 gallons	Machine Shop
	Butterfield Tap Fluid	Liquid	Plastic Jug	1 gallon	Machine Shop
	Dykem Steel Blue	Liquid	Aerosol	12 ounces	Machine Shop
	Magnaglo Magnaflux	Solid	Metal Can	1 quart	Machine Shop
	Black Enamel	Liquid	Aerosol	72 ounces	Machine Shop
	Phillips Lubrcnts/Oil	Liquid	Plastic Jug	20 gallons	Machine Shop
	ATF Dexron II	Liquid	Plastic Jug	1.5 gallons	Machine Shop
	Phillips Gasoline	Liquid	Metal Can	10 gallons	Machine Shop
	RoughTouch Scrubs (In a bucket)	Liquid	Metal Can	8 gallons	Machine Shop
					Machine Shop
	A-105 Dry Moly Lube	Liquid	Aerosol	144 ounces	Machine Shop
	"2000"	Semi-Solid	Metal Can	24 ounces	Machine Shop

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

See Table 7-1 on the following page.

TABLE 7-1
Source and Quantities of Effluent and Waste Solids Generated at the Facility
B&B Machine Shop
Hobbs, New Mexico

Waste Type	General Composition and Source (solvents from small parts cleaning, oil filters from trucks, etc.)	Volume Per Month (bbl or gal)	Major Additives (e.g., degreaser fluids from truck washing, soap in steam cleaners)
Truck Wastes (e.g., brine, produced water, drilling fluids, oil wastes, etc.)	N/A	N/A	N/A
Washing/Steam Cleaning of Parts Equipment, Tanks	N/A	N/A	N/A
Solvent/Degreaser Use	Waste naptha/mineral spirits from parts cleaning	2 gallons/month	N/A
Waste Slop Oil	N/A	N/A	N/A
Waste Lubrication and Motor Oils	Waste oil (motor, hydraulic, and coolants)	30 gallons/month	N/A
Oil Filters	Vehicle oil filters	1each/month	N/A
Solids and Sludges from Tanks (describe types of materials - e.g., crude oil tank bottoms, sand, etc.)	N/A	N/A	N/A
Painting Wastes	N/A	N/A	N/A
Sewage (indicate if other wastes mixed with sewage; if no commingling, domestic sewage under jurisdiction of the NMEID)	N/A	N/A	N/A
Other Waste Solids (cement, construction materials, used drums)	Scrap Metal	10 cubic yards/month	N/A
	Scrap Metal Shavings	20 cubic yards/month	N/A
	General Shop Trash, e.g., paper, plastic, empty containers, wood, small amounts of metal, drain & crushed oil filters, misc. construction material, etc	13 cubic yards/month	N/A

VIII. Description of Current Liquid and Solid Waste Collection/Storage/Disposal Procedures

A. Summary Information

Used solvents are recycled using a RECYCLIT $_{TM}$ Model SR-80 solvent recycler and reused in shop operations. Used motor oil, hydraulic oil, and coolants are collected in fifty-five (55) gallon drums inside the machine shop area. During accumulation, these drums remain on a secondary containment system with a capacity at least one-third ($^1/_3$) greater than the largest container. There are no interconnected containers in this area. These lubricants are periodically picked up by a contractor and recycled off-site for alternative use. Both scrap metal and scrap metal shavings are collected on-site. These materials are essentially the same but are collected separately due to recycling requirements. Scrap metal is collected in a five hundred (500) barrel metal container. The scrap metal shavings are collected in a one thousand (1000) barrel metal container. Other solid wastes generated are non-hazardous general shop wastes, e.g., wood, paper, plastic, small amounts of metal, empty containers, cardboard, small amounts of floor sweep, drained and crushed oil filters, and other miscellaneous construction debris. This waste is picked up by a contractor and disposed of off-site.

B. Collection and Storage Systems

1. Collection and Storage Systems Names in Part A of this Section

a. Truck Washing and Steam Cleaning of Parts and Equipment

N/A - Truck washing and steam cleaning of parts and equipment is not performed at this facility.

b. Solvent/Degreaser Use

Mineral Spirits/Naptha are used to clean various parts and pieces of equipment in the machine shop. When in use, this solvent is held in a three hundred (300) gallon open top, above ground tank. When the solvent is no longer usable it is recycled using a stand alone solvent recycling unit. After recycling, it is stored onsite pending reuse in the three hundred (300) gallon tank. Very minute quantities of waste are created by the recycling unit. This waste is collected in five (5) gallon open top drums and shipped off-site for disposal. To date, there has been no accumulation nor disposal of this waste. The recycling operations are located in the North portion of the machine shop, East of the paint booth.

c. Waste Slop Oil, Lubricants, and Motor Oils - None

Waste motor oil, hydraulic oil, and coolants are generated from various machine, equipment, and vehicle maintenance procedures. Approximately thirty (30) gallons of this waste is generated per month. This waste is collected in fifty-five (55) gallon drums in the machine shop. These drums are stored, during accumulation,

on a secondary containment system. This secondary containment system has a capacity one-third ($^1/_3$) greater than the largest container. Periodically, this waste is picked up by a contractor and recycled off-site for an alternative use.

d. Oil Filters

Oil filters are generated at this facility from oil changes on vehicles. On average, only one (1) filter per month is generated. These filters are drained, crushed and disposed of with the general shop trash.

e. Solids and Sludges

N/A - There are no solids and sludges generated at this facility.

f. Painting Wastes

N/A - There are no painting wastes generated at this facility.

g. Other Waste Solids

General shop trash, e.g., paper, plastic, wood, small quantities of metal, empty containers, drained and crushed oil filters, small quantities of floor sweep, and other miscellaneous construction debris are accumulated in a three (3) cubic yard dumpster provided by Waste Management of SE New Mexico. On average, this container is picked up one (1) time per week and transported to a local landfill for disposal. Therefore, approximately thirteen (13) cubic yards of this waste is generated and landfilled each month.

Non hazardous scrap metal and scrap metal shavings are collected in a five hundred (500) barrel and one thousand barrel (1,000) barrell metal container, respectively. On average, these boxes are emptied every six (6) months by a local scrap metal dealer and recycled off site. Therefore, approximately thirty (30) cubic yards of scrap metal and shavings are generated each month.

h. Other Waste Liquids

N/A - There are no other waste liquids generated at this facility.

2. Tankage and Chemical Storage Areas

a. Storage Areas Within Buildings

Solvents, detergents, paints, lubricants, machine coolants, oils and miscellaneous materials specified in Section VI and VII are stored inside the shop or office area of the main facility (ref. Attachment I, Site Drawing). Flammable chemicals used

in the facility are stored in flammable storage cabinets. The building's floor is concrete. This concrete serves as an impermeable liner between the various chemicals and soils. Any spills or leaks would remain in the shop area on the concrete floor.

b. Storage Areas Adjacent to Buildings

N/A - There are no tankage or chemical storage areas adjacent to buildings.

c. Waste Oil Storage Area

Waste oil is collected in fifty-five (55) gallon drums. These drums are stored on a secondary containment system in the machine shop.

3. Buried Piping Integrity

N/A - This facility does not contain underground process or wastewater pipelines subject to the requirements of this section.

C. Existing Effluent and Solids Disposal

1. On-Site Facilities

a. Description of Each Facility

(1) Surface Impoundments

N/A - There are no surface impoundments at this facility.

(2) Leach Fields

B&B Machine does utilize a septic tank and leach field system for the management of sanitary sewage from the shop. This system is not used under any circumstances for the disposal of any waste other than sewage. The septic tank has a capacity of approximately fifteen hundred (1500) gallons. Both the tank and leachfield are located adjacent to the machine shop on the Northeast corner.

(3) Injection Wells

N/A - There are no injection wells at this facility.

(4) Drying Beds or Other Pits

N/A - There are no drying beds or other pits at this facility.

(5) Solids Disposal

N/A - There are no solids disposal activities at this facility.

(6) Floor Drains (Sumps)

N/A - There are no floor drains/sumps in use at this facility.

(7) Waste Water Treatment

N/A - There are no waste water treatment systems at this facility.

b. Further Information for Leach Fields, Pits, and Impoundments Having Single Liners

N/A - There is no additional information available on the existing leach field.

3. Off-Site Disposal

a. Industrial Waste Water (Truck Washing and Steam Cleaning of Parts and Equipment)

N/A - There is no waste water generated at this facility.

b. Solvents and Degreasers

Waste solvents and degreasers generated at this facility are recycled on-site for reuse. No waste disposal means are needed at this time. However, any waste generated as a result of recycling activities will be properly characterized and disposed of in accordance with all applicable laws and regulations at an authorized off-site disposal facility.

c. Waste Slop Oil, Waste Lubrication, and Motor Oils

Waste oils and coolants generated at this facility are collected in fifty-five (55) gallon drums. These drums are stored on a secondary containment system with a capacity one-third ($^1/_3$) greater than the largest container. This system is located within walls of the machine shop. The waste is periodically picked up by a contractor and transported via tank truck to an off-site recycling facility. At this facility the used oil is recycled and sold as fuel oil to various buyers.

d. Oil Filters

Used oil filters generated at this facility are drained, crushed, and disposed of with

the general shop trash. This waste is picked up by a contractor one (1) time per week and placed in a local landfill.

e. Solids and Sludges

N/A - There are no other solids and sludges generated at this facility.

f. Other Waste Solids

General shop trash, e.g., paper, plastic, wood, small quantities of metal, empty containers, crushed and drained oil filters, and other miscellaneous construction debris are accumulated in a three (3) cubic yard dumpster. On average, this container is picked up one (1) time per week by a contractor and its contents disposed of off-site in a local landfill. Therefore, approximately thirteen (13) cubic yards of this waste is generated and landfilled each month.

Scrap metal and scrap metal shavings are also collected on-site. Although these materials are essentially the same they are collected separately due to recycling requirements. These materials are periodically picked up by a contractor and transported to a scrap metal recycling facility.

g. Other Waste Liquids

N/A - There are no other waste liquids generated at this facility.

Table 8-1
Summary Description of Existing Liquid and Solids Waste Collection and Disposal
B&B Machine Shop
Hobbs, New Mexico

Waste Type	Tank Drum	Floor Drain (F) Sumps (S)	Pits Lined (L) or Unlined (U)	Onsite Injection Well	Leachfield/Pit	Offsite Disposal
1. Truck Wastes (None)	N/A	N/A	N/A	N/A	N/A	N/A
2. Truck, Tank Washing, Drum Washing	N/A	N/A	N/A	N/A	N/A	N/A
3. Steam Cleaning of Parts, Equipment, Tanks	N/A	N/A	N/A	N/A	N/A	N/A
4. Solvents	Drum	N/A	N/A	N/A	N/A	On-site Recycling Unit
5. Spent Acids or Completion Fluids (None)	N/A	N/A	N/A	N/A	N/A	N/A
Caustics	N/A	N/A	N/A	N/A	N/A	N/A
6. Waste Slop Oil (None)	N/A	N/A	N/A	N/A	N/A	N/A
7. Waste Lubrication and Motor Oils	Drum	N/A	N/A	N/A	N/A	Off-site Recycling
8. Oil Filters	Dumpster	N/A	N/A	N/A	N/A	Off-site Disposal
9. Solids and Sludges	N/A	N/A	N/A	N/A	N/A	N/A
10. Painting Wastes	N/A	N/A	N/A	N/A	N/A	N/A
11. Sewage (Sanitary)	Tank/Leach Field	N/A	N/A	N/A	Leacfield	Collection in Tank and drainage to Leach field
12. Other Waste Liquids	N/A	N/A	N/A	N/A	N/A	N/A

Waste Type	Tank Drum	Floor Drain (F) Sumps (S)	Pits Lined (L) or Unlined (U)	Onsite Injection Well	Leachfield/Pit	Offsite Disposal
13. Other Waste Solids						
Scrap Metal	Box	N/A	N/A	N/A	N/A	Off-site Recycling
Scrap Metal Shavings	Box	N/A	N/A	N/A	N/A	Off-site Recycling
General Shop Trash, e.g., paper, plastic, empty containers, wood, small amounts of metal, drain & crushed oil filters, misc. construction material, etc	Dumpster	N/A	N/A	N/A	N/A	Off-site Disposal

IX. Description of Proposal Modifications to Existing Collection, Storage, and Disposal Systems

A. Modifications to Existing Collection and Storage Systems

N/A - There are no proposed modifications to existing collection and storage systems.

B. Closure of Ponds, Pits, Lagoons, etc.

N/A - There are no closures planned or required at this facility.

X. Routine Inspection, Maintenance, and Reporting to Ensure Compliance

A. Routine Inspection Procedures for Disposal Units with Leak Detection

N/A - There are no disposal units at this facility.

B. Ground-Water Monitoring for Leak Detection

N/A - There are no disposal units at this facility.

C. Containment of Precipitation and Runoff

NA - All process areas are located inside the shop facilities. Precipitation and runoff do not come in contact with these areas. Therefore, there is no requirement to plan for containment of precipitation and runoff.

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

A. Containment, Cleanup, and Reporting Procedures

It is the management policy of B&B Machine Shop to comply with all applicable environmental laws and regulations. As part of B&B Machine's objective to be a good industrial citizen, facilities are built, upgraded, and maintained to minimize environmental impact or emergencies.

B&B Machine personnel are present at the facility during business hours when operations are conducted. In addition, a site walk-through inspection is conducted every business day morning by the onsite manager. The purpose of this inspection is to identify any spills or leaks and to initiate corrective action and reporting as necessary. Good sound judgement will be used in the containment, cleanup, and reporting of any fires, leaks, and spills that may occur.

B&B Machine Shop will notify the Oil Conservation Division (OCD) of any unauthorized release of any chemical , contaminants, or mixture thereof, in the State of New Mexico which meets the definition of either a minor or major release.

Major Release: an unauthorized release of a volume, excluding natural gas, in excess of 25 barrels; an unauthorized release of any volume which:

- results in a fire;
- will react with water;
- may with reasonable probability endanger public health; or
- results in substantial damage to property or the environment;
- an unauthorized release of natural gases in excess of 500 mcf; or
- a release of any volume which may with reasonable probability be detrimental to water or cause an exceedance of the standards in 19 NMAC 15.A.19.B(1), B(2), or B(3).

Minor Release: an unauthorized release of a volume, greater than 5 barrels but not more than 25 barrels; or greater than 50 mcf but less than 500 mcf of natural gas.

Major releases will be reported as follows:

1. verbally to the District OCD office within twenty-four (24) hours of discovery.
2. verbally to the Division's Environmental Bureau Chief within twenty-four (24) hours if the release may, with reasonable probability, be detrimental to water or cause an exceedence on the standards in 19 NMAC 15.A.19.B(1), B(2), or B(3). This notification will provide the information required on the Division form C-141 (Appendix A).
3. written to the District OCD office within fifteen (15) days by completing and filing the Division form C-141.
4. written to the Division's Environmental Bureau Chief within fifteen (15) days if the release may, with reasonable probability, be detrimental to water or cause an exceedence on the standards in 19 NMAC 15.A.19.B(1), B(2), or B(3) by completing and filing the Division form C-141. This written notification shall verify prior verbal notification and provide any appropriate additions or corrections to the information contained in the prior verbal notification.

Minor Releases will be reported as follows:

1. written to the District OCD office within fifteen (15) days by completing and filing the Division form C-141.

In general, leaks, spills, and drips will be handled as follows:

- Small spills will be absorbed with floor sweep type absorbent material. The used absorbents will be managed according to proper waste management practices for the material spilled.

- Small spills on soil will be absorbed with soil and shoveled into drums for offsite disposal by an approved disposal contractor.

- Large spills will be contained with temporary berms. Free liquids will be pumped into drums. Any contaminated soil will be shoveled into drums for offsite disposal by an approved disposal contractor.

B. Leak Detection

The method used for leak detection will be a routine site walk-through visual inspection by the onsite manager or his/her representative. This inspection will be performed at the start of each working shift and will be documented in a bound facility logbook. Documentation in the logbook will consist of:

- Date and Time;
- Any unusual conditions;
- Location, type, and approximate volume of spilled materials;
- Immediate corrective actions taken;
- Descriptions of notification made, including, time, date, contact, and brief description of conversation;
- Additional corrective actions taken; and
- Any other relevant information

C. Injection Well Contingency Procedures

N/A - There are no injection wells in use at this facility.

XII. Geological/Hydrological Evidence Demonstrating that Disposal of Oilfield Wastes Will Not Adversely Impact Fresh Water

A. Site Characteristics

1. Surface Water and Water Wells

The nearest body of water to the site is a perennial lake (Greenmeadow Lake) owned and operated by the City of Hobbs. It is two (2.0) miles to the Northwest of the site. There are no watercourses (streams, arroyos, or canals) or groundwater discharge site (seeps, springs, marshes, or swamps) within one miles of the iste. There are no water wells located within one-quarter mile of the outside perimeter of the facility (Ref. Attachment III, City of Hobbs Map and IV, USGS Topographical Map).

2. Ground Water

Depth to groundwater in this area varies between fifty (50) feet and one hundred (100) feet with a typical lithology of one to three (1-3) feet of topsoil, fifteen to fifty (15-50) feet of caliche, and two to thirty (2-30) feet of hard brown rock before reaching water. Total dissolved soids content of the water in the area varies between 390 mg/L and 480 mg/L. Water analyses are enclosed and provided by the City of Hobbs from a June of 1996 sampling. The City water department currently maintains seven water wells within a few miles to the North-Northwest of the site (Ref. Attachment V, Water Quality Analysis).

3. Hydrogeologic Information

a. Soil Types

The soil type at the site is Portales loam, 0 to 1 percent slope, USDA soil Conservation Service designation *Ph.* (ref. Attachment VI, Soil Type Determination Map). This soil is in depressions and swales in the north-central and northeastern parts of Lea County. This soil is moderately permeable. Runoff is slow. Water intake is moderate and the available water holding capacity is 9 to 11 inches. Roots penetrated to a depth of 20 to 36 inches to the strong lime zone. Soil blowing is a moderate hazard. This soil is used for irrigated and dryland crops, range, and wildlife. Irrigated capability unit IIe-3; dryland capability Ive-2; loamy range site; wildlife habitat group B. (ref. Attachment VII, Soil Profile - Portales Loam) The source of this information is the United States Department of Agriculture Soil Conservation Service volume entitled *Soil Survey - Lea County, New Mexico* (published January 1974).

At the Southern edge of the property the soil type is Kimbrough-Lea complex 0 to 3 percent slop, USDA Soil Conservation Service designation *KU* (Ref. Attachment VI, Soil Type Determination Map). In some areas this complex is about 50% Kimbrough vravelly loam and 25% Lea loam, and in a few about 40% Kimbrough soils and 40% Lea soils. It is 20% - 25% inclusions of Stegall, Arvana, Slaughter and Sharvan soils. The Kimbrough soil is gently sloping and is on the tops and sides of low ridges. The Lea soil is nearly level and is in swales between the ridges. The Lea soil is nearly level and is in swales between the ridges. The soils in the complexa are used as range, wildlife habitat and recreational areas. They are also a source of caliche for us in construction. Kimbrough soil: Dryland capability unit VIIs-1; Shallow (HP) range site; wildlife habitat group K. Lea soil: Dryland capability unit VIIs-1; Loamy range site; wildlife habitat Group K. The source of this informatio is the United States Department of Agriculture Soil Conservation Service volume entitled *Soil Survey - Lea County, New Mexico* (published January 1974).

b. Name of Aquifer

From a hydrological standpoint, the site lies on the south edge of the High Plains in the Ogallala formation. The Ogallala formation varies in thickness from 100 to 250 feet. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet, and this is the depth to water in this region. The recharge of the aquifer if due entirely to precipitation, as the formation is topographically high and isolated. The Triassic rock project above the water table in the western part of the Ogallala outcrop area in Lea County, and the Ogallala rocks are saturated only along valleys or in isolated depressions in the red-beds erosion surface.

The general direction of water table movement in this area is to the southeast, caused by the generally southeastward slope of the red-beds surface. Although recharge to the Ogallala apparently is distributed rather evenly, because of the even distribution of shallow depressions on the High Plains, the position of Mescalero

Ridge relative to the buried red-beds ridge may permit a somewhat more concentrated recharge at the escarpment. Based on the review of the available well logs of the site area (ref. Attachment VIII, Water Well Logs), water depth ranges from 36 feet to 175 feet. The source of this information is the United States Geological Survey publication entitled *Geology and Groundwater Conditions in Southern Lea County, New Mexico* (published 1961).

c. Composition of Aquifer Material

The aquifer in this area is composed of "water sand", typically alluvial sand with calcium or limestone rock stringers (Ref. Attachment VIII, Water Well Logs).

d. Depth to Bedrock

The depth to the base of the alluvium in the area of the iste is typically one hundred to two hundred (100 to 200) feet. The material beneath the water sand is red bed clay or sandstone (Ref. Attachment VIII, Water Well Logs).

4. Miscellaneous Information

a. Flooding Potential

There is no serious flooding potential at the site with respect to major precipitation and/or run-off events. In a conversation with the City of Hobbs City Engineer on October 1, 1997 at 9:00 a.m., it was confirmed that the site is outside designated City "flood zone".

b. Flood Protection Measures

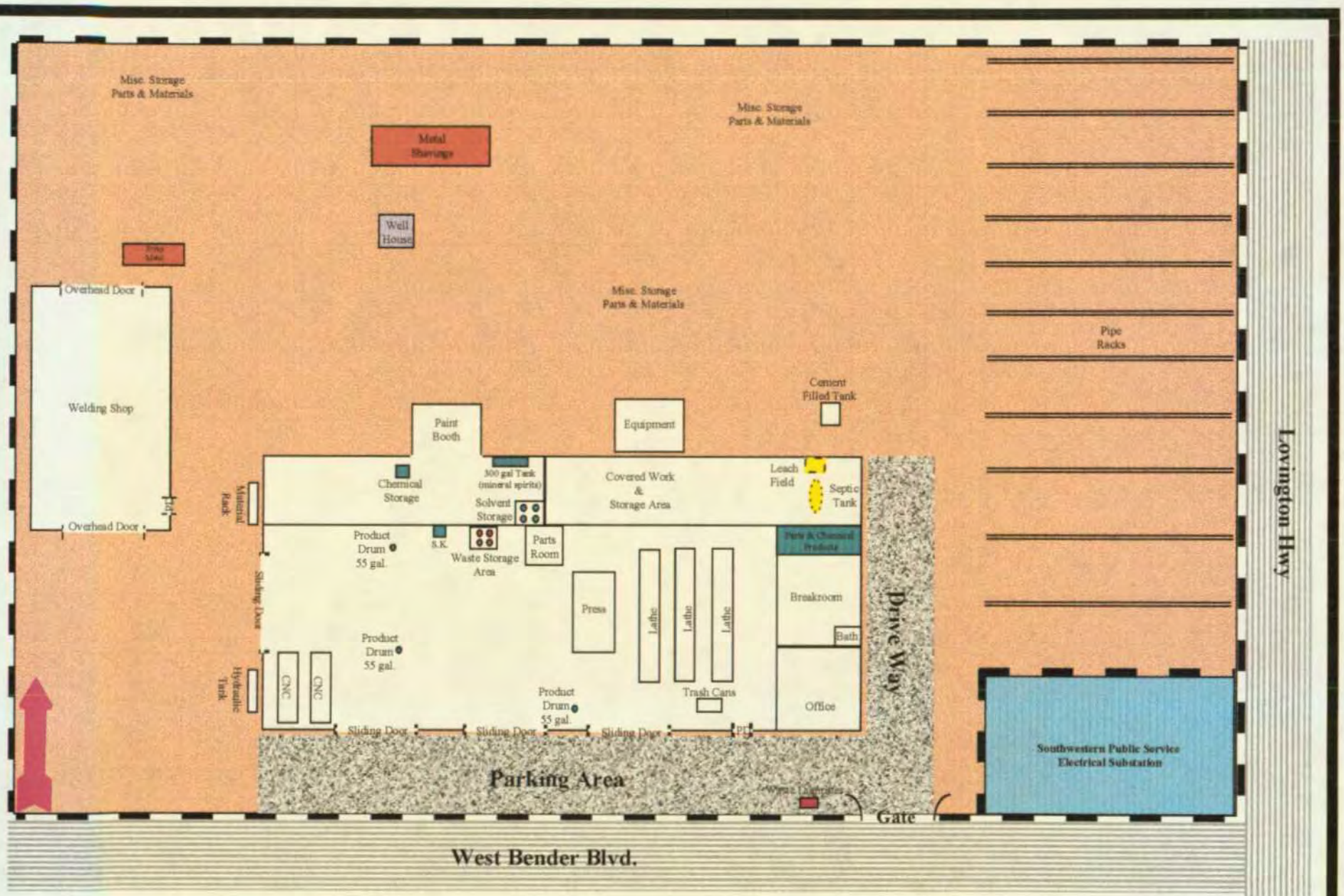
There are no flood protection measures onsite, the terrain surrounding the site is relatively flat, and none are necessary. Drainage or runoff from the site is typically to the Northeast (ref. Attachment I, Site Drawing).

B. Additional Information

It is reasonable to assume that if the use of the land at the site is not changed, there should be no discharge that would result in groundwater degradation in excess of the standards of WQCC Section 3103. In addition, site activities should not result in the presence of any toxic pollutant (Section 1101.TT.) at any point of withdrawal of water for present or reasonable foreseeable future use. The site, under present usage, is limited to consumer commodities or very small quantities of hazardous materials. There are no standard operating procedures onsite which result in discharge of hazardous materials to the surrounding surface, and any emergency response to hazardous materials onsite would be very small in scope. The are no surface impoundments or pits onsite.

ATTACHMENT I

(Site Drawing)



B&B Machine Shop 1120 West Bender Blvd. Hobbs, New Mexico 88240	Attachment I, Site Drawing Not to Scale	Llano-Permian Environmental Services 1031 Andrews Hwy., Ste 207 Midland, Texas 79701

ATTACHMENT II

(MSDSs Required)

5/28/91 Essentially Similar to U. S. Department of Labor Form OSHA-174

Copy

SECTION I

MANUFACTURER'S NAME CARROLL COMPANY EMERGENCY TELEPHONE NO. 214/278-1304
214/278-1300

ADDRESS 2900 WEST KINGSLEY RD, GARLAND, TEXAS 75041
TRADE NAME MURIATIC ACID REVISED: 2/13/91 PRODUCT CODE 385

SECTION II - HAZARDOUS INGREDIENTS

	TLV UNITS
MURIATIC ACID, CAS#7647-01-0	(CEILING) 5 PPM

SECTION III - PHYSICAL DATA

BOILING POINT (F) 230F
VAPOR PRESSURE (mm Hg.) 94
SOLUBILITY IN WATER COMPLETE
APPEARANCE AND ODOR WATER WHITE, PUNGENT ODOR
SPECIFIC GRAVITY (H2/O=1)1.18
PRODUCT pH <1.0
MELTING POINT UNDETERMINED

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used) UNDETERMINED
EXTINGUISHING MEDIA WATER, CO2, FOAM
SPECIAL FIRE FIGHTING PROCEDURES CONTACT WITH METAL RESULTS IN HIGHLY FLAMMABLE HYDROGEN GAS.
UNUSUAL FIRE AND EXPLOSION HAZARDS SEE ABOVE

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 5PPM-BASED ON RAW MATERIAL TLV
CARCINOGEN NO
ACUTE & CHRONIC HEALTH EFFECTS UNDETERMINED
PRIMARY ROUTES OF ENTRY: INHALATION X SKIN X INGESTION X
EFFECTS OF OVEREXPOSURE SKIN & EYE-CAN CAUSE SEVERE BURNS. INGESTION-CAN BE HARMFUL OR FATAL. INHALATION-CAN BE HARMFUL.
EMERGENCY & FIRST AID PROCEDURES SKIN-WASH WITH SOAP AND WATER. EYE-FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. INGESTION-GIVE LARGE AMOUNT OF MILK OR WATER TO DRINK. GET IMMEDIATE MEDICAL ATTENTION. INHALATION-CONTAINS CORROSIVE FUMES WHICH ARE HARMFUL-MOVE TO FRESH AIR AND GIVE OXYGEN.

HMIS Rating: Health: 2, Fire: 0, Reactivity: 0

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE STABLE X
CONDITIONS TO AVOID CONTACT WITH BASES AND CHLORINE BLEACHES
INCOMPATABILITY (Materials to Avoid) SEE ABOVE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED FLUSH AREA WITH PLENTY OF WATER.
WASTE DISPOSAL METHOD FOLLOW FEDERAL AND LOCAL REGULATIONS

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Type) USE ADEQUATE VENTILATION
GLOVES (Type) RUBBER OR NEOPRENE
EYE PROTECTION GOGGLES IF SPLASHING OCCURS
OTHER PROTECTIVE EQUIPMENT NONE

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING KEEP CLOSURE UP TO PREVENT LEAKAGE.
OTHER PRECAUTIONS NONE KNOWN

- SECTION I -

MANUFACTURER'S NAME CARROLL COMPANY EMERGENCY TELEPHONE NO. 214/278-1304
214/278-1300

ADDRESS 2900 WEST KINGSLEY RD, GARLAND, TEXAS 75041

TRADE NAME MURIATIC ACID REVISED: 2/13/91 PRODUCT CODE 385

- - - - - - - - SECTION X - SECTION 313 SUPPLIER NOTIFICATION (SARA) - - - - - - - - -

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CHEMICAL NAME & CAS#	% BY WEIGHT
HYDROCHLORIC ACID, CAS#7647-01-0	31.00

O.S.H.A. MSDS ENCLOSED
RETENTION REQUIRED BY LAW

MATERIAL SAFETY DATA SHEET: **AQUA-SOL 20/20 INDUSTRY** PAGE : 1

(000000-000000- -0237) | DATE OF ISSUE 05/12/97 | SUPERSEDES 01/10/97

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS
N/A

TRADE NAME & SYNONYMS
AQUA-SOL 20/20 INDUSTRY

CHEMICAL FAMILY :
AQUEOUS ALKALINE SURFACTANT

FORMULA
X <--MIXTURE

MANUFACTURER'S NAME:
CERTIFIED LABS, DIV. OF NCH CORP.

ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)
BOX 152170
IRVING, TEXAS
75015

PREPARED BY:	PRODUCT CODE NUMBER	EMERGENCY TELEPHONE NUMBER
G ZIMMERMAN/CHEMIST	0237	972-438-1381

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

CHEMICAL NAME (INGREDIENTS) :		
SODIUM METASILICATE HAZARD----->SKIN IRR. STEL(TWA)*->NOT EST.	TLV--->2MG/M3 1. CAS#-->6834-92-0	PEL--->2MG/M3 2.
TRIPROPYLENE GLYCOL MONOMETHYL ETHER HAZARD----->EYE IRR. STEL(TWA)*->NOT EST.	TLV--->NOT EST. 1 CAS#-->25498-49-1	PEL--->NOT EST. 2
2,6,8-TRIMETHYL-4-NONYLOXYPOLYETHYLENEOXYETHANOL HAZARD----->EYE IRR. STEL(TWA)*->NOT EST.	TLV--->NOT EST. 1 CAS#-->60828-78-6	PEL--->NOT EST. 2

MATERIAL SAFETY DATA SHEET: AQUA-SOL 20/20 INDUSTRY PAGE : 2

(CONTINUED) - SECTION II - HAZARDOUS INGREDIENTS

SECTION IIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363-5004P

SECTION III - PHYSICAL DATA

BOILING PT. (F)	210	SPEC. GRAVITY (H2O=1)	1.050
VAPOR PR. (MM HG)	18	COLOR	YELLOW-GREEN
VAPOR DENSITY	6	ODOR	LOW
PH. @ 100%	11.9	CLARITY	TRANSPARENT
% VOLATILE BY VOL	95	EVAPORATION RATE (BU A/C = 1)	0.10
H2O SOLUBILITY	COMPLETE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT: NON-FLAM	FLAMMABLE LIMITS	LEL	UEL
N/A	N/A	N/A	N/A

EXTINGUISHING MEDIA	"ALCOHOL"			DRY		WATER	
X <--FOAM	<--FOAM	X <--CO2	X <--CHEMICAL	X <--SPRAY	<--OTHER		

MATERIAL SAFETY DATA SHEET: AQUA-SOL 20/20 INDUSTRY PAGE 3
(CONTINUED) - SECTION IV - FIRE AND EXPLOSION HAZARD

SPECIAL FIRE FIGHTING PROCEDURES
FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS
SPILLED MATERIAL MAY BE SLIPPERY. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING. THE DRIED RESIDUE LEFT AFTER ALL WATER HAS EVAPORATED WILL GIVE OFF ACRID SMOKE WHEN HEATED TO DECOMPOSITION.

NFPA HAZARD RATING (0=INSIGNIFICANT;1=SLIGHT;2=MODERATE;3=HIGH;4=EXTREME):
1 <--HEALTH 1 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE :

- ACUTE - (SHORT TERM EXPOSURE)

SKIN: CAUSES SEVERE IRRITATION TO THE SKIN. POSSIBLE SYMPTOMS MAY INCLUDE STINGING, REDNESS OR ITCHING.
EYES: CONTACT WITH EYES CAUSES SEVERE IRRITATION SUCH AS PAIN, TEARS AND REDNESS. PERMANENT CORNEAL INJURY IS POSSIBLE.
INHALATION: MIST IS SEVERLY IRRITATING TO THE NOSE, THROAT AND LUNGS. THE VAPOR MAY CAUSE DIZZINESS OR IRRITATION OF THE RESPIRATORY TRACT IF THE PRODUCT IS HEATED OR USED IN POORLY VENTILATED AREAS.
INGESTION: CAUSES PAIN IN THE MOUTH, THROAT, AND STOMACH. MAY CAUSE NAUSEA, VOMITING, OR DIARHEA.
AS AN INGREDIENT IN THIS PRODUCT CAN BE ABSORBED THROUGH THE SKIN. REPEATED LONG TERM SKIN EXPOSURE CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION AND KIDNEY EFFECTS.

- CHRONIC - (LONG TERM EXPOSURE)

LONG-TERM REPEATED INHALATION OF MIST OR SPRAY MAY CAUSE DAMAGE TO UPPER RESPIRATORY TRACT. REPEATED EXPOSURE MAY CAUSE SUPERFICIAL DESTRUCTION OF SKIN RESULTING IN DERMATITIS. THERE ARE NO KNOWN CHRONIC EFFECTS TO THE EYES OTHER THAN CONTINUATION OF THE ACUTE EFFECTS. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS.

MATERIAL SAFETY DATA SHEET: AQUA-SOL 20/20 INDUSTRY PAGE : 4
(CONTINUED) - SECTION V - HEALTH HAZARD DATA

TARGET ORGANS: KIDNEYS, CENTRAL NERVOUS SYSTEM. BLOOD-FORMING ORGANS.

PRIMARY ROUTE OF ENTRY: X<-- INHALATION <-- INGESTION <-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

INHALATION :
REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

EYE CONTACT:
IMMEDIATELY RINSE EYES WITH WATER. REMOVE ANY CONTACT LENSES, AND CONTINUE FLUSHING EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTYRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT:
WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET IMMEDIATE MEDICAL ATTENTION. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

INGESTION :
IMMEDIATLY GIVE 3-4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCOURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

NOTES TO PHYSICIAN :
ORGANIC ABNORMALITIES RESULTING FROM OVEREXPOSURE TO GLYCOL ETHERS BY ANY ROUTE LIKELY WOULD BE AN ABNORMAL BLOOD PICTURE CHARACTERIZED BY ERYTHROPENIA, RETICULOCYTOSIS, GRANULOCYTOSIS AND LEUKOCYTOSIS.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

MATERIAL SAFETY DATA SHEET: AQUA-SOL 20/20 INDUSTRY PAGE : 5
(CONTINUED) - SECTION VI - TOXICITY INFORMATION

IARC	NTP	OSHA	ACGIH	OTHER
<--YES X<--NO	<--YES X<--NO	<--YES X<--NO	<--YES X<--NO	<--YES X<--NO

SODIUM METASILICATE: ORL-RAT LD50: 1280 MG/KG 3.
SKN-RBT: 250MG/24H SEV 3.
TRIPROPYLENE GLYCOL MONOMETHYL ETHER
ORL-RAT LD50: 3300MG/KG 4.
ORL-DOG LD50: 5000MG/KG 4.
2,6,8-TRIMETHYL-4-NONYLOXYPOLY OXYETHANOL
ORL-RAT LD50: 5650MG/KG 4.
SCAQMD INFORMATION. VOC CONTENT, 39 G/L. VAPOR PRESSURE OF THE VOC COMPONENT, .02 MMHG @ 20°C. THE VOC COMPONENT IS NOT PHOTCHEMICALLY REACTIVE.

SECTION VII - REACTIVITY DATA

STABILITY	X <--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
	N/A		

INCOMPATABILITY (MATERIALS TO AVOID) :
MAY ETCH GLASS OR ANODIZED ALUMINUM IF PRODUCT IS HOT THE SURFACE IS HOT OR THE PRODUCT IS NOT RINSED OR PROPERLY DILUTED.

HAZARDOUS DECOMPOSITION PRODUCTS
OXIDES OF CARBON, NITROGEN, SILICA, ACRID SMOKE

HAZARDOUS POLYMERIZATION	WILL NOT X <--OCCUR	MAY <--OCCUR	CONDITIONS TO AVOID
	N/A		

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

MATERIAL SAFETY DATA SHEET: AQUA-SOL 20/20 INDUSTRY PAGE : 6
(CONTINUED) - SECTION VIII - SPILL OR LEAK PROCEDURES

DIKE AND CONTAIN SPILL IF SAFE TO DO SO. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE CLOTHING.
USE CARE AS SPILLS MAY BE SLIPPERY.

WASTE DISPOSAL METHOD(S):
DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL & LOCAL REGULATIONS.

NEUTRALIZING AGENT :
N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION :

GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT THE WORK AREAS SHOULD PROVIDE ADEQUATE VENTILATION OR CONTROLS TO MAINTAIN EXPOSURE BELOW RECOMMENDED LEVELS.

RESPIRATORY PROTECTION :
WITH NORMAL USE, NO RESPIRATOR IS REQUIRED. IF MATERIAL IS USED IN A MANNER WHICH CREATES MISTS, A NIOSH APPROVED RESPIRATOR DESIGNED FOR AEROSOL MISTS SHOULD BE WORN.

GLOVE PROTECTION :
LATEX OR NEOPRENE RUBBER GLOVES

EYE PROTECTION :
SAFETY GLASSES WITH SIDE SHIELDS.

MATERIAL SAFETY DATA SHEET: AQUA-SOL 20/20 INDUSTRY PAGE : 7
(CONTINUED) - SECTION IX - SPECIAL PROTECTION INFORMATION

OTHER PROTECTION :
PROTECTIVE CLOTHING SUCH AS A RUBBER OR PLASTIC APRON IF SKIN CONTACT IS LIKELY

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
MAX: 120 F. MIN: 32 F	X			

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
AVOID FREEZING.

OTHER PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN.
READ ENTIRE LABEL BEFORE USING.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S NUMBER	UPPER % LIMIT
N/A		

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIRMENTS OF 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.
IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND LABELED FOR MAINTAINING MOTOR VEHICLES.

THIS MSDS IS NOT SUITABLE FOR USERS

MATERIAL SAFETY DATA SHEET: AQUA-SOL 20/20 INDUSTRY PAGE : 8
(CONTINUED) - SECTION XI - REGULATORY INFORMATION

IN THE STATE OF CALIFORNIA.

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

LABELS	LIMITED QTY
UNIT CONTAINER	
DOT SPS CONTAINER	NET EXPLOSIVE WT.
AEROSOL PROPELLANT(S)	

SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1994-1995.
2. OSHA PEL.
3. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, EIGHTH EDITION, RICHARD J. LEWIS, SR.
4. VENDOR'S MSDS

IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE, CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT, NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LEVEL, STEL:SHORT TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MUTAGENIC, ASPHYX:ASPHYXIANT

* SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN THE FEDERAL REGISTER/VOL. 54 NO. 12, 1-19-89

(CONTINUED) - SECTION XIII - REFERENCES

THE INFORMATION CONTAINED HERIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

CERTIFIED LABS, DIV. OF NCH CORP. ASSUMES NO RESPONSIBILTY FOR PERSONAL INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

MATERIAL SAFETY DATA SHEET

Identity (As used on label and list)	Note: Blank fields are not permitted
300 Mineral Spirits NAPTHA	

Section I

Manufacturer's Name HILL PETROLEUM	Emergency Phone # 713-923-3506
Address 9700 MANCHESTER	Information Phone # 713-225-0463
City, State, Zip Code HOUSTON, TX 77012-5038	Date Prepared 05/05/87

Section II - Hazardous Ingredients

Ingredient	Percent	CAS Number
300 SOLVENT	100	64741-82-1

Common Names and Synonyms
OLD STYLE 300, STODDARD SOLVENT Mineral Spirits

PEL: 100 PPM | TLV: 100 ppm

Other Limits Recommended:

Section III - Physical/Chemical Characteristics

Boiling Point: 320/384	Specific Gravity: 0.791
Vapor Pressure: 1.5/6.0	Melting Point:
Vapor Density: 4.86	Evaporation Rate: 0.09

SOLUBILITY IN WATER
NEGLIGIBLE

APPEARANCE AND ODOR
WHITE WATER LIQUID; MILD HYDROCARBON ODOR

KEELING PETROLEUM, INC.
Box 2566
Hobbs N.M. 88241

Section IV - Fire And Explosion Hazard Data

Flash Point: 110 (F)	Limits: Lel: 1.1	Uel: 6.0

EXTINGUISHING MEDIA

(1) MECHANICAL FOAM, (2) DRY CHEMICAL, (3) WATER FOG, (4) CO2

SPECIAL FIREFIGHTING PROCEDURES

A STRAIGHT WATER STREAM WOULD SPREAD HYDROCARBON FIRES. AVOID BREATHING VAPORS. AVOID BREATHING VAPORS. USE FRESH AIR RESPIRATORS.

UNUSUAL FIRE AND EXPLOSION HAZARDS

A VAPOR ACCUMULATION WOULD FLASH AND/OR EXPLODE IF IGNITED.

Section V - Reactivity Data

STABILITY: Stable

CONDITIONS TO AVOID

AVOID HEAT, SPARKS, FLAME AND OTHER SOURCES OF IGNITION.

INCOMPATABILITY

AVOID STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE IF BURNED WITH INSUFFICENT AIR.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID

Section VI - Health Hazard Data

CARCINOGENICITY	NTP?	IARC?	OSHA REGULATED
NONE	NONE	NONE	NO

Effects and Hazards of Overexposure (Acute and Chronic)

EFFECTS AND HAZARDS OF EYE CONTACT

POSSIBLE EYE IRRITANT

Section VI continued on next page

Section VI - Health Hazard Data (continued)

EFFECTS AND HAZARDS OF SKIN CONTACT
CAN POSSIBLY CAUSE CONTACT DERMITITIS

EFFECTS AND HAZARDS OF INHALATION
OVEREXPOSURE TO VAPORS MIGHT DAMAGE CENTRAL NERVOUS SYSTEM AND CAUSE RESPIRATORY IRRITATION, MUSCULAR WEAKNESS, CONFUSION, IMPAIRED COORDINATION, HEADACHE AND NAUSEA.

EFFECTS AND HAZARDS OF INGESTION
SEE ABOVE

Emergency And First Aid Procedures

TREATMENT FOR EYE CONTACT
WASH IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES.

TREATMENT FOR SKIN CONTACT
WASH IMMEDIATELY WITH SOAP AND WATER.

TREATMENT FOR INHALATION
REMOVE FROM EXPOSURE. PROVIDE FRESH AIR AND REST. USE ARTIFICIAL RESPIRATION IF NEEDED.

TREATMENT FOR INGESTION
DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATLEY.

Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
REMOVE ALL POSSIBLE IGNITION SOURCES. AVOID BREATHING VAPORS. PROVIDE ADEQUATE VENTILATION. IN CASE OF SPILLAGE, ABSORB AND DISPOSE OF IN ACCORDANCE WITH LOCAL APPLICABLE REGULATION. CALL EMERGENCY NUMBER IF SPILLAGE POSES THREAT TO MAN OR ENVIRONMENT.

WASTE DISPOSAL METHOD
DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATION. USE QUALIFIED DISPOSAL COMPANY TO INCINERATE, OR OTHERWISE DISCARD, AT AN APPROVED FACILITY. DO NOT INCINERATE CLOSED CONTAINERS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
KEEP CLOSURES TIGHT AND UPRIGHT TO PREVENT LEAKAGE. KEEP CLOSED WHEN NOT IN USE. DO NOT TRANSFER TO UNMARKED CONTAINER. READ ALL WARNING LABELS. STORE IN COOL, WELL VENTILATED AREA. GROUND CONTAINERS WHEN FILLING OR

(Continued on next page)

Section VII - Precautions for Safe Handling and Use (continued)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING (Cont.)

EMPTYING.

OTHER PRECAUTIONS

Section VIII - Control Measures

RESPIRATORY PROTECTION

IF TLV IS EXCEEDED, USE SELF-CONTAINED BREATHING APPARATUS.

Ventilation

LOCAL EXHAUST VENTILATION

TO A DANGER SAFE AREA.

SPECIAL VENTILATION

USE ONLY WITH ADEQUATE VENTILATION. ADEQUATE MEANS EQUIVALENT TO OUTDOORS VENTILATION.

MECHANICAL VENTILATION

USE EXPLOSION-PROOF EQUIPMENT

OTHER VENTILATION

AVOID POTENTIAL IGNITION SOURCES.

PROTECTIVE GLOVES

USE CHEMICAL RESISTANT.

EYE PROTECTION

WASH IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES.

OTHER PROTECTIVE EQUIPMENT

AS REQUIRED TO AVOID SKIN CONTACT OR BREATHING VAPORS.

WORK AND HYGIENIC PRACTICES

WATCH FIRE HAZARDS.

KEEP FROM CHILDREN.

MATERIAL SAFETY DATA SHEET

HMIS Ratings

H 3
F 3
R 0
PPE H

For Coatings, Resins, and Related Materials
Replaces NPCA 1-82

Manufacturer's Name
Cactus Paint Manufacturing Company, Inc.
East Interstate 20 Big Spring, Texas 79721-1047

Date of Preparation
11-25-85

Emergency Telephone No.
Karl Brunson
(915) 267-6754

Information Telephone No.
(915) 267-8293
(915) 267-8294

Section I - Product Identification

Product Number: TH-3

Product Name: Thinner Number 3

Product Class: Paint Solvent

Section II - Hazardous Ingredients

Ingredient	% Volume	* Occupational Exposure Limits TLV PPM	* Occupational Exposure Limits PEL mg/m^3	Vapor Pressure mm Hg @ 20° C
Xylene	100.0	100		5.10

* TLV-PPM ACGIH Threshold Limit Value (8-hour Time Weighted Average)
PEL-Mg/M^3 OSHA Permissible Exposure Level (8-hour Time Weighted Average

Section III - Physical Data

Boiling Range 279-284°F

Vapor Density Heavier than air

Evaporation Rate
Slower than Ether

% Volatile Volume 100.0

Wt Gal 7.24 lbs/gal.

Section IV - Fire and Explosion Hazard Data

Flammability Classification	OSHA	Flammable Liquid Class 1C	Flash Point	81°F Setaflas
	DOT	Flammable Liquid	LEL	1.0 %

Extinguishing Media

Regular Foam, Carbon Dioxide, Dry Chemical

Unusual Fire and Explosion Hazards

Vapors are heavier than air and may travel along the ground or may be moved by vintilation and ignited by pilot lights, other flames, sparks, heaters, motors, smoking, static electrical discharge, or other ignition sources at locations distant from material handling point. Containers may rupture when exposed to extreme heat.

Special Firefighting Procedures

Firefighters should be equipped with a self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. Water may be ineffective as extinguishing media. If water must be used, a fog nozzle or spray mist nozzle is recommended. Water may be used to cool closed containers exposed to extreme heat to prevent pressure build-up and possible autoignition or explosion.

Section V - Health Hazard Data

Threshold Limit Value 100 PPM Vapors

Effects of Overexposure

ACUTE (short term) Can cause severe irritation to eyes and skin. Prolonged or repeated skin contact can cause defatting and dermatitis. Excessive inhalation can cause moderate nasal and respiratory irritation, dizziness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Ingestion can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

CHRONIC (long term) Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and central nervous system damage. Overexposure to Xylene has apparently been found to cause the following effects in laboratory animals: Anemia, Liver Abnormalities, Kidney Damage, Eye Damage. Overexposure to Xylene has been suggested to cause the followning effects in humans: Cardiac Abnormality.

Medical Conditions Prone to Aggravation by Exposure

Respiratory Illness

Primary Route(s) of Entry

Inhalation and Ingestion

Emergency and First Aid Procedures

Eyes: Flush with large amounts of water, lifting upper and lower eyelids, for at least 15 minutes and get medical attention.

Skin: Thoroughly wash exposed area with soap and water. If irritation persists consult physician. Launder clothing before reuse.

Inhalation: If affected, remove person to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, administer artificial respiration, keep person warm and quiet, and get immediate medical attention.

Ingestion: DO NOT INDUCE VOMITING! Keep person warm and quiet. Get immediate medical attention. Aspiration of material into lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

Section VI - Reactivity Data

Stability Stable

Hazardous Polymerization
Will not occur

Hazardous Decomposition Products

Carbon Dioxide, Carbon Monoxide, Various Hydrocarbons

Conditions to Avoid

Excessive heat, flames, sparks, other ignition sources

Incompatibility (Materials to Avoid)

Strong Oxidizing Agents

Section VII - Spill or Leak Procedures

Steps To Be Taken In Case Material Is Released Or Spilled

Persons not wearing protective clothing and equipment should be excluded from area of spill until clean-up has been completed. Eliminate all ignition sources Stop spill at source, dike area to prevent spreading, and pump material into a salvage drum or approved waste disposal container. Residue may be absorbed on inert absorbant material and shoveled into approved waste disposal containers. Waste containers should be stored away from all ignition sources and should be kept tightly sealed to prevent leakage. Waste from spills or use of this produc may be considered hazardous under Enviornmental Protection Agency definition. Consult EPA 40 CFR 261 for full discussion.

Waste Disposal

Destroy by liquid incineration. Contaminated absorbant material may be disposed of by landfill burial in accordance with local, state, and federal regulations.

Section VIII - Safe Handling and Use Information

Respiratory Protection If TLV or PEL of product is exceeded, a NIOSH/MSHA approved air supplied respirator is advised in the absence of proper enviornmental controls. OSHA regulations also permit other NIOSH/MSHA approved respirators under specifi conditions.

Ventilation

Provide sufficient mechanical (general or local) ventilation to maintain exposur levels below TLV or PEL unless air monitoring demonstrates vapor/mist levels are below acceptable levels.

Protective Gloves Neoprene or Nitrile Rubber

Eye Protection Chemical Splash Goggles

Other Protective Equipment

Impervious clothing and boots to prevent prolonged or repeated skin exposure.

Hygenic Practices

Good personal hygiene should be observed. Persons employed in application areas should be required to romove contaminated clothing and wash thoroughly before smoking, eating, drinking, or entering areas where these activities occur.

Section IX - Special Precautions

Precautions To Be Taken In Handling And Storing

WARNING! Contains Xylene. Flammable! Can be harmful or fatal if inhaled or ingested. Prevent breathing of spray mists or spray vapors during and after application. When pouring product from drums, drum should be bonded and grounded to prevent static electrical discharge. Keep containers upright and tightly sealed to prevent leakage. Store away from direct sunlight and all ignition sources. Never use a cutting torch or welder on empty drums as residue can ignite explosively.

Other Precautions

RECEIVED JUN 14 1993

2003

MATERIAL SAFETY DATA SHEET
AND SAFE HANDLING AND DISPOSAL INFORMATION

CLEAN ACROSS AMERICA AND THROUGHOUT THE WORLD™

ZEP MANUFACTURING COMPANY
P.O. BOX 2015
ATLANTA, GEORGIA 30301

B & B MACHINE SHOP
1120 W BENDER
HOBBS, NM 88240

06/04/93
ISSUE DATE: 07/09/89
SUPERSEDES: 06/23/89
ZEP REACH
PRODUCT NO.: 0925 **Hand Cleaner - Liquid**

SECTION I - EMERGENCY CONTACTS

TELEPHONE:
(404) 352-1680 *BETWEEN 8:00 AM - 5:00 PM (EST)*
MEDICAL EMERGENCY:
(404) 435-2973 *NON-OFFICE HOURS, WEEKENDS*
(404) 351-2952 *AND HOLIDAYS, PLEASE CALL YOUR*
(404) 432-2673 **LOCAL POISON CONTROL**
TRANSPORTATION EMERGENCY:
(404) 922-0923
CHEMTREC:
1-800-424-9300 **TOLL-FREE - ALL CALLS RECORDED**
DISTRICT OF COLUMBIA:
(202) 483-7616 **ALL CALLS RECORDED**

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
™ LOW ODOR PARAFFINIC SOLVENT ™ odorless base oil; dispersol; CAS# 64742-47-8; RTECS# NONE; OSHA PEL-500 ppm.	500	CNS CBL	30-40
™ NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL ™ poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy; CAS# 9016-45-9; RTECS# MD9050000; OSHA PEL-N/D	N/D	EIR	<5

SECTION III - HEALTH HAZARD DATA

Special Note: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

Acute Effects of Overexposure:
This product is not sufficiently volatile to constitute a significant inhalation hazard. Severe overexposure to concentrated vapor may produce mild central nervous system depression, characterized by headache and stupor. Introduction of solvents, as in aspiration of vomitus fluids, may produce chemical pneumonia. This product can be an eye irritant. Inflammation of eye tissue is characterized by redness, watering, and/or itching.

Chronic Effects of Overexposure:
Skin which is repeatedly defatted by contact with this product may be more susceptible to irritation, infection, or dermatitis. None of the hazardous ingredients are listed carcinogens by IARC, NTP, & OSHA

Est'd PEL/TLV: Not established **Primary Routes of Entry:** Inh.

HMIS Codes: HEALTH 0;FLAM. 0;REACT. 0;PERS. PROTECT. N/A;CHRONIC HAZ. NO

FIRST AID PROCEDURES:
Skin: This product is formulated for use on the skin, but it should be rinsed off with water.
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once.
Inhale: Move exposed person to fresh air. If irritation persists, get medical attention promptly.
Ingest: If this product is swallowed, do not induce vomiting. If victim is conscious give plenty of water to drink. Get medical attention at once.

SECTION IV - SPECIAL PROTECTION INFORMATION

Protective Clothing: No special measures are required.
Eye Protection: No special measures are required.
Respiratory Protection: No special measures are required.
Ventilation: No special measures are required.

SECTION V - PHYSICAL DATA

Boiling Point (°F):	N/D	**Specific Gravity:**	0.92	**Vapor Pressure (mmHg):**	N/D
Percent Volatile by Volume (%):	83.5%	**Vapor Density (air=1):**	N/D	**Evaporation Rate (=1):**	N/D
Solubility in Water:	EMULSIFIES	**pH (concentrate):**	8.0	**pH (use dilution of):**	N/A

Appearance and Odor: LIGHT GREEN GEL WITH ALMOND FRAGRANCE

SECTION VI - FIRE AND EXPLOSION DATA

Flash Point (°F) (method used): NONE BELOW 160F (TCC)
Flammable Limits: LEL N/D UEL N/D
Extinguishing Media: GEL STRUCTURE INHIBITS COMBUSTIBILITY OF SOLVENT.
Special Fire Fighting: NONE
Unusual Fire Hazards: PRODUCT WILL NOT FLASH UNLESS HEATED ABOVE 212F.

SECTION VII - REACTIVITY DATA

Stability: Stable
Incompatibility (avoid): STRONG OXIDIZERS
Polymerization: Will not occur.
Hazardous Decomposition: May decompose to form toxic/corrosive gases if exposed to high heat.

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
Observe safety procedures in section 4 & 9 during clean-up. Absorb spill on inert absorbent material (eg Zep-O-Zorb). Pick up and place residue in a suitable waste container. Wash spill area thoroughly with a detergent solution and rinse well with water.

Waste Disposal Method:
Liquid wastes are not permitted in landfills. Product is not considered a hazardous waste under RCRA. Unusable liquid may be absorbed on an inert absorbent material (eg Zep-O-Zorb), drummed, and taken to a chemical or industrial landfill. Pretreatment may be required before landfilling. Consult local, state, or federal agencies for proper disposal in your area.

RCRA Hazardous Waste Numbers: N/A

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken When Handling and Storing:
Store tightly closed container in a dry area at temps. between 40-120 degrees F. Keep product out of eyes. Keep out of the reach of children.

SECTION X - TRANSPORTATION DATA

DOT Proper Shipping Name: NONE
DOT Hazard Class: N/A
DOT I.D. Number: N/A
DOT Label/Placard: NONE
EPA TSCA Chemical Inventory: ALL INGREDIENTS ARE LISTED
EPA CWA 40CFR Part 117 substance (RQ in a single container): : NONE

NOTICE

Thank you for your interest in, and use of, Zep products. Zep Manufacturing Co. is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Manufacturing is concerned for your health and safety. Zep products can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any Zep product, be sure to read the complete label and the Material Safety Data Sheet.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

TERMS AND ABBREVIATIONS USED IN THE MSDS:
BY SECTION ALPHABETICALLY:

SECTION II: HAZARDOUS INGREDIENTS

CAR: Carcinogen - A chemical listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA as a definite or possible human cancer causing agent.

CAS #: Chemical Abstract Services Registry Number - A universally accepted numbering system for chemical substances.

CBL: Combustible - At temperatures between 100°F and 200°F chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

CNS: Central Nervous System depressant reduces the activity of the brain and spinal cord.

COR: Corrosive - Causes irreversible alterations in living tissue (e.g. burns).

DESIGNATIONS: Chemical and common names of hazardous ingredients.

EIR: Eye Irritant Only - Causes reversible reddening and/or inflammation of eye tissues.

EXPOSURE LIMITS: The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLV's, and OSHA PEL's (TWA, STEL and ceiling limits).

ACGIH: American Conferance of Governmental Industrial Hygienists.

CEILING: The concentration that should not be exceeded in the workplace during any part of the working exposure.

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit- A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.

PPM: Parts per million - unit of measure for exposure limits.

(S) SKIN: Skin contact with substance can contribute to overall exposure.

STEL: Short Term Exposure Limit- Maximum concentration for a continuous 15-minute exposure period.

TLV: Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week.

FBL: Flammable - At temperatures under 100°F, chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS: Chemical substances determined to be potential health or physical hazards by the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

HTX: Highly toxic - the probable lethal dose for 70 kg (150 lb.) man and may be approximated as less than 6 teaspoons (2 tablespoons).

IRR: Irritant - Causes reversible effects in living tissues (e.g. inflammation) - primarily skin and eyes.

N/A: Not Applicable - Category is not appropriate for this product.

N/D: Not Determined - Insufficient information for a determination for this item.

RTECS #: Registry of Toxic Effects of Chemical Substances - an unreviewed listing of published toxicology data on chemical substances.

SARA: Superfund Amendments and Reauthorization Act - Section 313 designates chemicals for possible reporting for the Toxics Release Inventory.

SEN: Sensitizer - Causes allergic reaction after repeated exposure.

TOX: Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

SECTION III: HEALTH HAZARD DATA

ACUTE EFFECT: An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.

CHRONIC EFFECT: Adverse effects that are most likely to occur from repeated exposure over a long period of time.

EST'D PEL/TLV: This estimated, time-weighted average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.

HMIS CODES: Hazardous Material Identification System - a rating system developed by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/Flammability/Reactivity) ranging from a low of zero to a high of 4. A chronic hazard is indicted with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective equipment.

PRIMARY ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a generalized-systemic or specific-organ toxic effect.

ING: Ingestion - A primary route of exposure through swallowing of material.

INH: Inhalation - A primary route of exposure through breathing of vapors.

SKIN: A primary route of exposure through contact with the skin.

SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks.

MSHA: Mine Safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health.

SECTION V: PHYSICAL DATA

EVAPORATION RATE: it refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water).

pH: A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline pH = 14)

PERCENT VOLATILE: The percentage of the product (liquid or solid) that will evaporate at 212°F and ambient pressure.

SOLUBILITY IN WATER: A description of the ability of the product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION: Breakdown products exp: ed to be produced upon product decomposition or fire.

INCOMPATIBILITY: Material contact and conditions to avoid to prevent hazardous reactions.

POLYMERIZATION: Indicates the tendency of the product's molecules to combine in a chemical reaction releasing excess pressure and heat.

STABILITY: Indicates the susceptibility of the product to spontaneously and dangerously decompose.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES

RCRA WASTE NOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

SECTION X: TRANSPORTATION DATA

CWA: Clean Water Act

RQ: Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies.

TSCA: Toxic Substances Control Act - a federal law requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

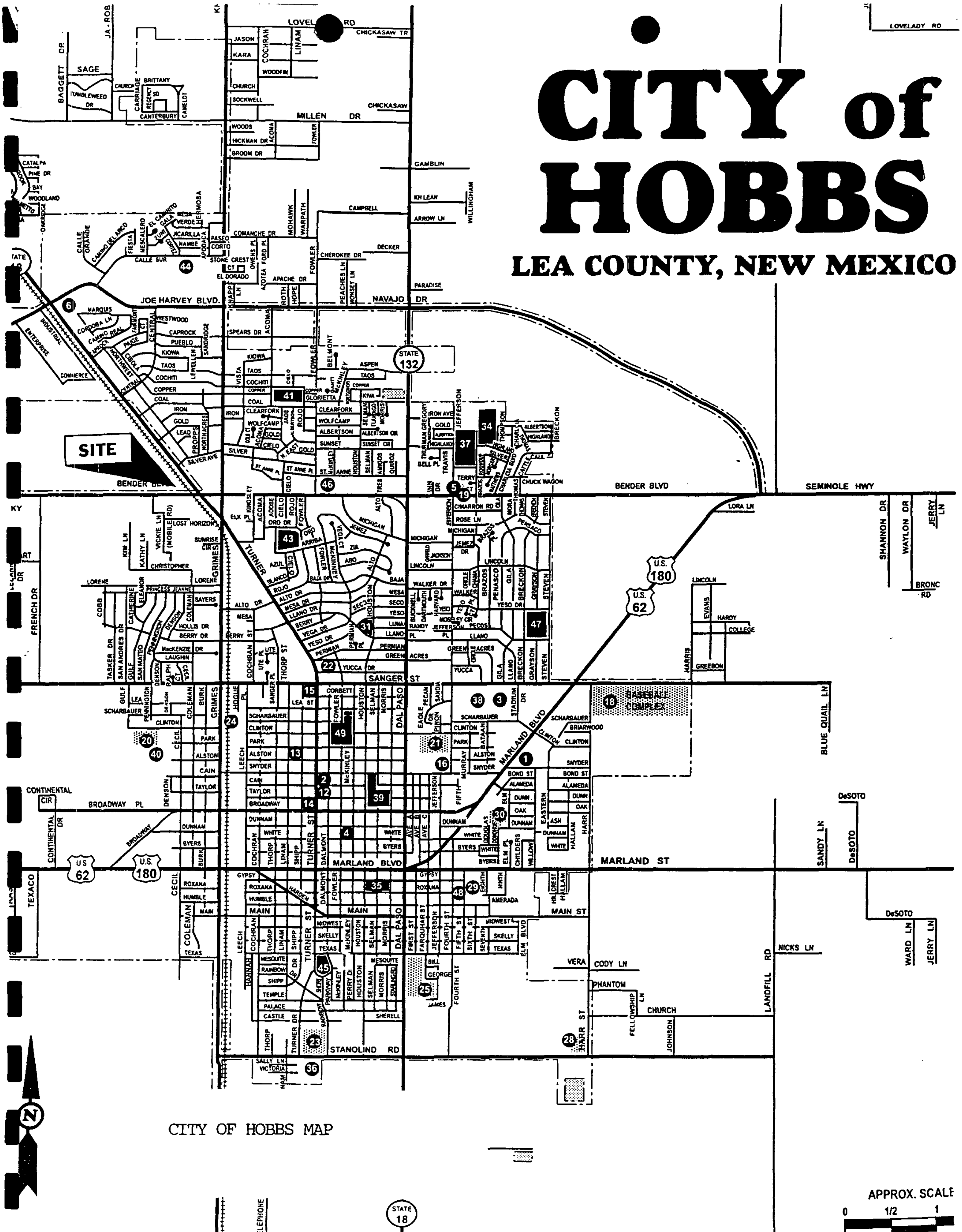
DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the product's label and Material Safety Data Sheet.

(Notice Revised 8/91)

ATTACHMENT III

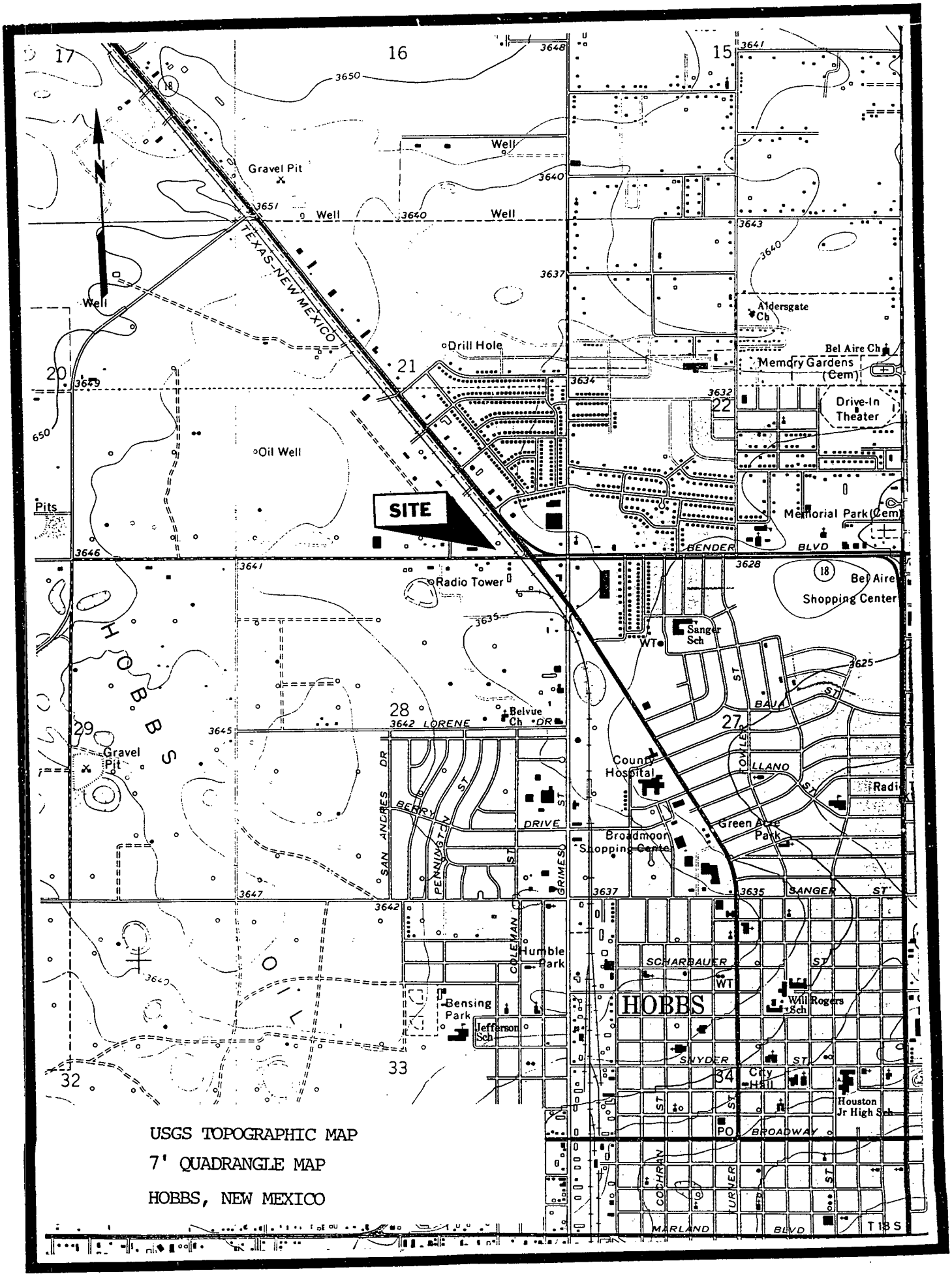
(City of Hobbs Map)



CITY OF HOBBS MAP

ATTACHMENT IV

(USGS Topographical Map)



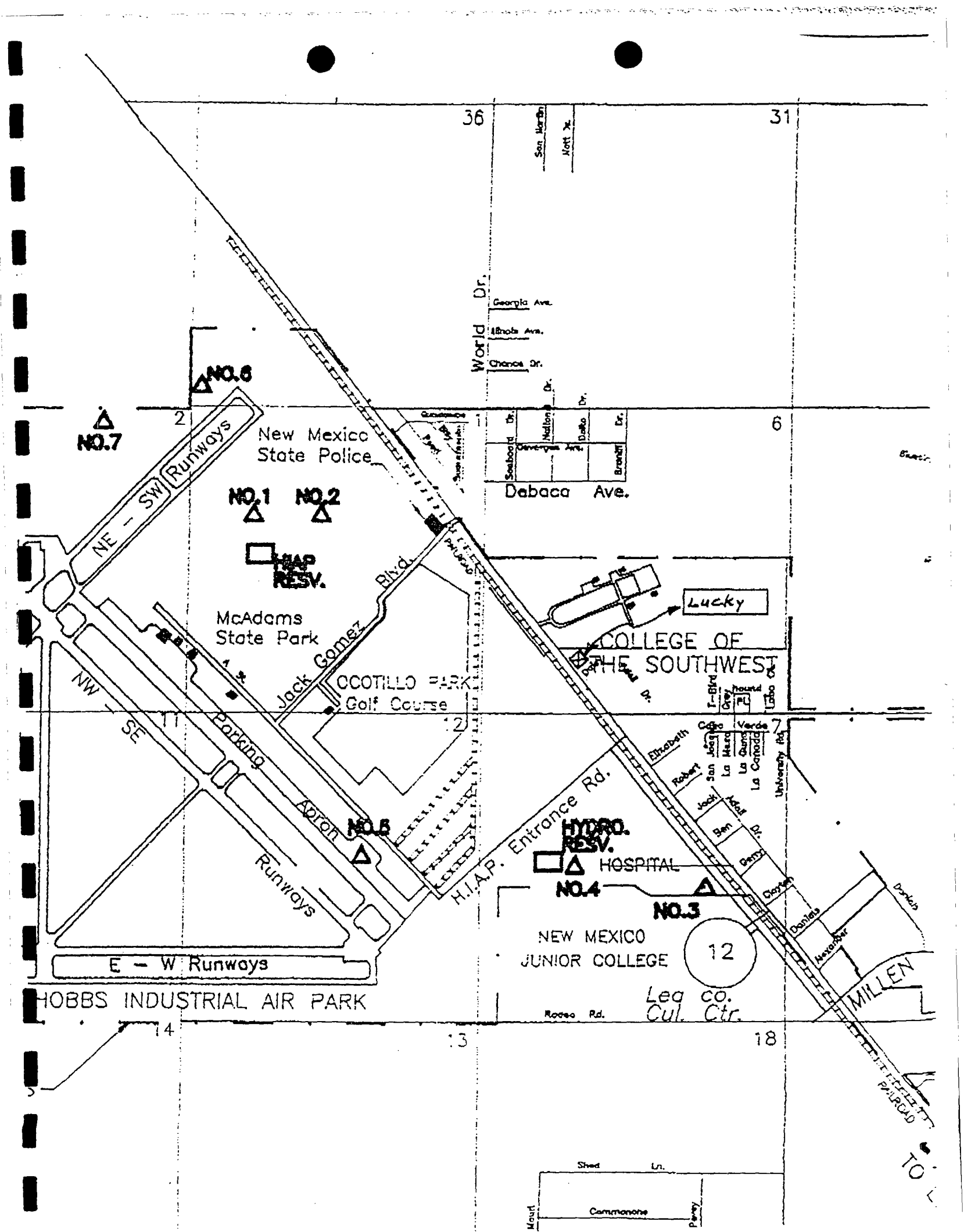
USGS TOPOGRAPHIC MAP

7' QUADRANGLE MAP

HOBBS, NEW MEXICO

ATTACHMENT V

(Water Quality Analytical)


36
31
World Dr.
Georgia Ave.
Illinois Ave.
Chance Dr.
NO.6
NO.7
2
1
6
New Mexico
State Police
Runways
NE - SW
NO.1
NO.2
MAP
RESV.
Dabaca Ave.
Lucky
McAdams
State Park
Jack Gomez Blvd.
OCOTILLO PARK
Golf Course
COLLEGE OF
THE SOUTHWEST
NW - SE
11
12
7
Parking Apron
NO.5
Runways
H.I.A.P. Entrance Rd.
HYDRO.
RESV.
HOSPITAL
NO.4
NO.3
NEW MEXICO
JUNIOR COLLEGE
12
Lea co.
Cul. Ctr.
E - W Runways
HOBBS INDUSTRIAL AIR PARK
Rodeo Rd.
MILLEN
14
13
18
Shed Ln.
Commanche Pkwy
TO

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT: ☐

Hobbs Municipal Water Supply
300 N. Turner
Hobbs, NM 88240

SLD No.: OR- 9602895
REQUEST ID No.: 168635
RECEIVED AT SLD: 8/22/96
☐ SLD COPY USER 55000

ED FIELD OFFICE: ☐

ED Field Office, Hobbs
726 E. Michigan Ave,Suite 165
Hobbs, NM 88240

☐ N.M.E.D. DRINKING WATER BUREAU

Barbara Giesler
Drinking Water Bureau
NMED
525 Camino los Marquez
Santa Fe NM 87502

SAMPLE COLLECTION: DATE: 8/21/96 TIME: 955 BY: Mey
SAMPLING LOCATION: Well #5 Entry Point
WSS #: 21613 REPORTING UNITS: ug/L

Remarks: Sample marked as: being preserved with Hydrochloric Acid;
No targeted compounds were detected in this sample.

EPA METHOD 502.2 SDWA VOLATILES BY GAS CHROMATOGRAHY (PID/ELCD)

DATE EXTRACTED: N/A
DATE ANALYZED: 8/25/96 4 Days: Within EPA Analysis Time
SAMPLE VOL (ml): 5
0

ANALYSIS No.: OR- 9602895
SLD BATCH No.: 440
DILUTION FACTOR: 1.00
REQUEST ID No.: 168635

SAMPLE PRESERVATION: Sample Temperature when received: 12 Degrees C.; pH = 1

CAS #	ANALYTE NAME	CONC. (ug/L)	QUAL.	SDL	MCL
71-43-2	Benzene		U	0.50	5
108-86-1	Bromobenzene		U	0.50	[illegible]
74-97-5	Bromochloromethane		U	0.50	[illegible]
75-27-4	Bromodichloromethane*		U	0.50	80
75-25-2	Bromoform*		U	0.50	80
24-83-9	Bromomethane		U	0.50	[illegible]
78-93-3	2-Butanone (MEK)		U	5.00	[illegible]
104-51-8	n-Butylbenzene		U	0.50	[illegible]
135-98-8	sec-Butylbenzene		U	0.50	[illegible]
98-06-6	tert-Butylbenzene		U	0.50	[illegible]
1634-04-4	tert-Butyl methyl ether (MTBE)		U	5.00	[illegible]
56-23-5	Carbon tetrachloride		U	0.50	5
108-90-7	Chlorobenzene (monochlorobenzene)		U	0.50	100
75-00-3	Chloroethane		U	0.50	[illegible]
67-66-3	Chloroform*		U	0.50	80
74-87-3	Chloromethane		U	0.50	[illegible]
95-49-8	2-Chlorotoluene		U	0.50	[illegible]
106-43-4	4-Chlorotoluene		U	0.50	[illegible]
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	0.50	0.2
124-48-1	Dibromochloromethane*		U	0.50	80
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	0.50	0.05
74-95-3	Dibromomethane		U	0.50	[illegible]
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)		U	0.50	600
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)		U	0.50	600
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)		U	0.50	75
75-71-8	Dichlorodifluoromethane				

75-35-4	1,1-Dichloroethene		U	0.50	7
156-59-2	cis-1,2-Dichloroethene		U	0.50	70
156-60-5	trans-1,2-Dichloroethene		U	0.50	100
78-87-5	1,2-Dichloropropane		U	0.50	5
142-28-9	1,3-Dichloropropane		U	0.50	
590-20-7	2,2-Dichloropropane		U	0.50	
563-58-6	1,1-Dichloropropene		U	0.50	
1006-01-5	cis-1,3-Dichloropropene		U	0.50	
1006-02-6	trans-1,3-Dichloropropene		U	0.50	
100-41-4	Ethylbenzene		U	0.50	700
87-68-3	Hexachlorobutadiene		U	0.50	
98-82-8	Isopropylbenzene		U	0.50	
99-87-6	4-Isopropyltoluene		U	0.50	
75-09-2	Methylene chloride (Dichloromethane)		U	0.50	5
91-20-3	Naphthalene		U	0.50	
103-65-1	Propylbenzene		U	0.50	
100-42-5	Styrene		U	0.50	100
630-20-6	1,1,1,2-Tetrachloroethane		U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane		U	0.50	
127-18-4	Tetrachloroethene		U	0.50	5
109-99-9	Tetrahydrofuran (THF)		U	5.00	
108-88-3	Toluene		U	0.50	1000
87-61-5	1,2,3-Trichlorobenzene		U	0.50	
120-82-1	1,2,4-Trichlorobenzene		U	0.50	70
71-55-6	1,1,1-Trichloroethane		U	0.50	200
79-00-5	1,1,2-Trichloroethane		U	0.50	5
79-01-6	Trichloroethene		U	0.50	5
75-69-4	Trichlorofluoromethane		U	0.60	
96-18-4	1,2,3-Trichloropropane		U	0.50	
95-63-6	1,2,4-Trimethylbenzene		U	0.50	
108-67-8	1,3,5-Trimethylbenzene		U	0.50	
75-01-4	Vinyl chloride		U	0.50	2
95-47-6	o-Xylene*		U	0.50	
N/A	p- & m-Xylene*		U	0.50	
N/A	*Total of Xylenes above*	0.0	U	0.50	10000
N/A	*Total of Trihalomethanes above*	0.0	U	0.50	100

LABORATORY BATCH QUALITY CONTROL SUMMARY

	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
SURROGATE RECOVERIES:	2-Bromochlorobenzene (Photoionization Detector Surrogate)	10.28	102.8%
	2-Bromochlorobenzene(Electrolytic Conductivity Detector Surrogate)	9.69	96.9%

LABORATORY FORTIFIED BLANK RECOVERIES

The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below:

COMPOUND	CONCENTRATION (ug/L)	% RECOVERY
Bromoform	10	122
Dibromochloromethane	10	121

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blank with the ecxeption of the compound(s) listed below:

COMPOUND	CONCENTRATION (ug/L)
No Exceptions	

ANALYST: S. A. Mustafa QC APPROVED BY: Ken Sherrell

DEFINITIONS

**	Concentration Exceeds EPA's allowable Maximum Contamination Level
CAS#	Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC.	Concentration (ug/L) of analyte actually detected in the sample
QUAL	Qualifier of analytical results as follows:
	B Analyte was detected in laboratory blank
	J Analyte was detected at a level below which an accurate quantitation can be given (<5 * SDL)
	U No analyte was detected above the Sample Detection Limit.
MCL	Maximum Contamination Level Allowed by EPA for SDWA regulated analytes
SDL	Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
ug/L	Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

CITY OF HOBBS
WATER WELL TESTS
RESULTS FROM THE CITY LAB
JUNE 1996
WELL 3

TEST RAN	RESULTS
ALKALINITY	184.0 mg/L
BICARBONATE	184.0 mg/L
CALCIUM	74.0 mg/L
CARBONATE	0 mg/L
CHLORIDE	60 mg/L
CHLORINE, TOTAL	- mg/L
CONDUCTIVITY	690 ms
COPPER	0.06 mg/L
FLUORIDE	0.96 mg/L
HARDNESS, TOTAL	234 mg/L
IRON, TOTAL	0.127 mg/L

WATER WELL TESTS (cont')

JUNE 1996

WELL 3

TEST RAN	RESULTS
NITRATE	2.7 mg.L
PHOSPHORUS	0.304 mg/L
pH	7.5
TEMPERATURE	21.9
TDS	390 mg/L
SULFATE	100.6 mg/L
SODIUM	50 mg/L

CITY OF HOBBS
WATER WELL TESTS
RESULTS FROM THE CITY LAB
JUNE 1996
WELL 4

TEST RAN	RESULTS
ALKALINITY	198.0 mg/L
BICARBONATE	198.0 mg/L
CALCIUM	69.0 mg/L
CARBONATE	0 mg/L
CHLORIDE	80 mg/L
CHLORINE, TOTAL	- mg/L
CONDUCTIVITY	780 ms
COPPER	0.06 mg/L
FLUORIDE	0.90 mg/L
HARDNESS, TOTAL	228 mg/L
IRON, TOTAL	0.064 mg/L
Mg	38.6 mg/L

WATER WELL TESTS (cont')

JUNE 1996

WELL 4

TEST RAN	RESULTS
NITRATE	3.2 mg.L
PHOSPHORUS	0.344 mg/L
pH	7.5
TEMPERATURE	22.4
TDS	480 mg/L
SULFATE	110.8 mg/L
SODIUM	58 mg/L

CITY OF HOBBS
WATER WELL TESTS
RESULTS FROM THE CITY LAB
JUNE 1996
WELL 5

TEST RAN	RESULTS
ALKALINITY	198.0 mg/L
BICARBONATE	198.0 mg/L
CALCIUM	78.0 mg/L
CARBONATE	0 mg/L
CHLORIDE	60 mg/L
CHLORINE, TOTAL	- mg/L
CONDUCTIVITY	740 ms
COPPER	0.07 mg/L
FLUORIDE	0.88 mg/L
HARDNESS, TOTAL	244 mg/L
IRON, TOTAL	0.037 mg/L
Mg	40.0 mg/L
MANGANESE	0.0 mg/L

WATER WELL TESTS (cont')

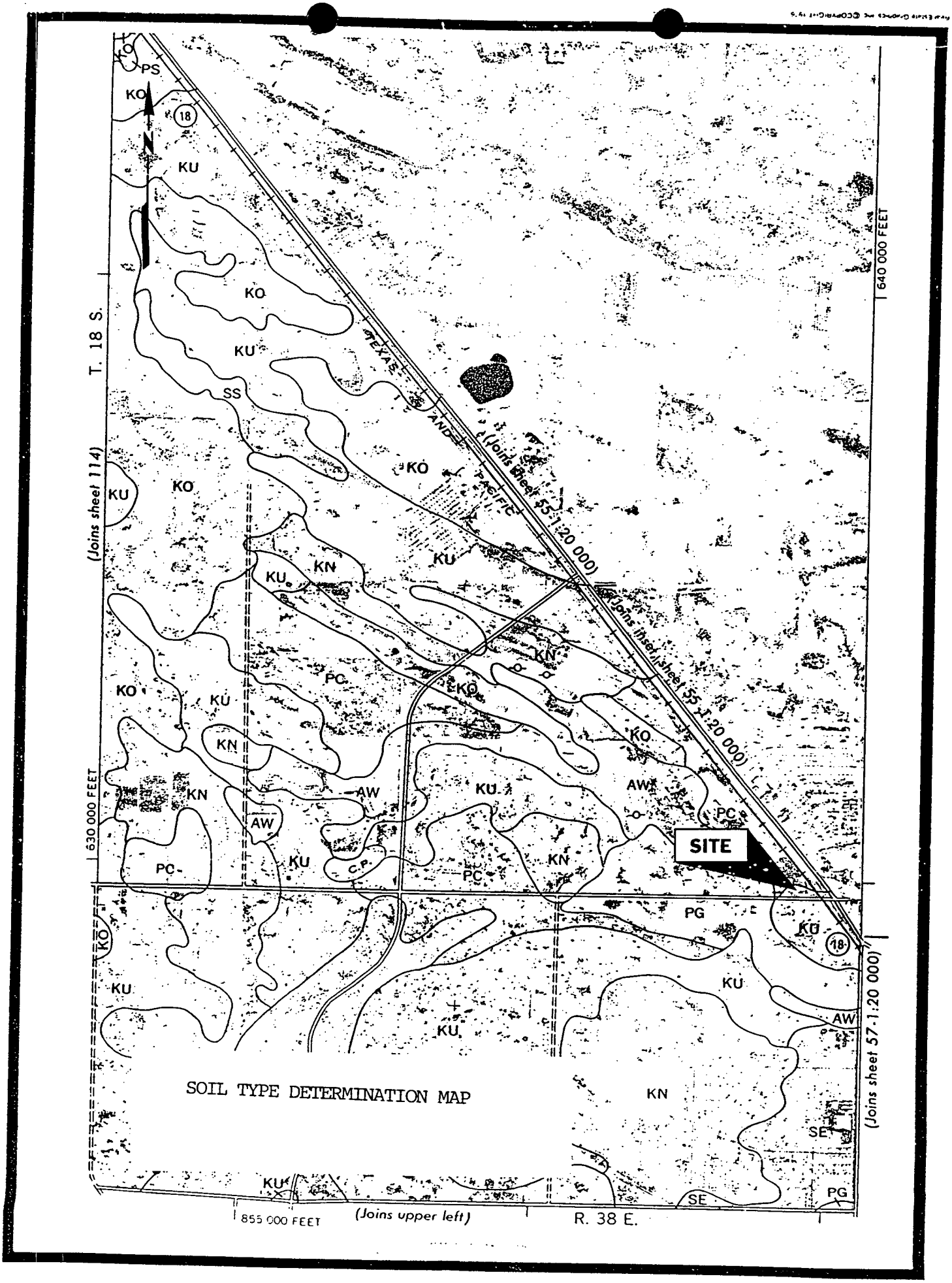
JUNE 1996

WELL 5

TEST RAN	RESULTS
NITRATE	3.8 mg.L
PHOSPHORUS	0.242 mg/L
pH	7.4
TEMPERATURE	23.3
TDS	390 mg/L
SULFATE	166.9 mg/L
SODIUM	55 mg/L

ATTACHMENT VI

(Soil Type Determination Map)

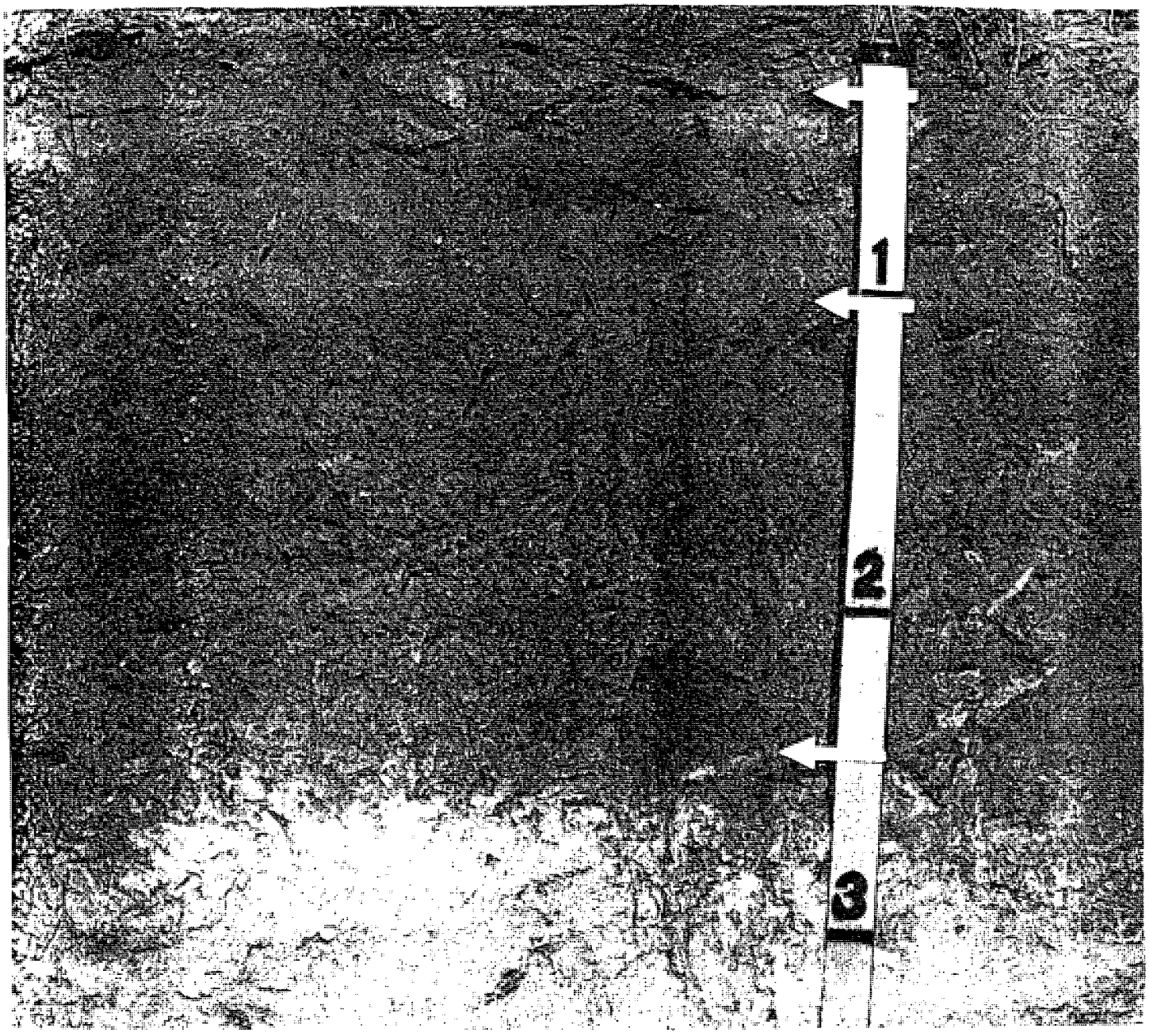


SOIL TYPE DETERMINATION MAP

ATTACHMENT VII

(Soil Profile-Portales Loam)

Soil Profile - Portales Loam



A11 - 0 to 8 inches, dark-brown (10YR 4/3) loam, very dark grayish brown (10YR 3/2) when moist; weak, fine granular structure; slightly hard, friable when moist, slightly sticky and slightly plastic when wet; common fine roots; few fine tubular pores; few, fine soft calcium carbonate concretions; mildly alkaline (pH 7.6), slightly calcareous; clear boundary. 5 to 10 inches thick.

A12 - 8 to 12 inches, grayish-brown (10 YR 5/2) loam, dark grayish brown (10 YR 4/2) when moist; weak, fine granular and weak, medium subangular blocky structure; slightly hard, friable when moist, slightly sticky and slightly plastic when wet; common fine roots; few fine tubular pores; few fine calcium carbonate concretions; mildly alkaline (pH 7.6), slightly calcareous; gradual boundary. 3 to 6 inches thick.

B2 - 12 to 26 inches, pale-brown (10 YR 6/3) light clay loam, grayish brown (10 YR 5/2) when moist; weak, medium, subangular blocky structure; hard, friable when moist, sticky and plastic when wet; many fine roots; many fine tubular pores; common fine soft calcium carbonate concretions; moderately alkaline (pH 8.2), strongly calcareous; clear boundary. 12 to 20 inches thick.

Cca - 26 to 60 inches, very pale brown (10 YR 8/3) chalky loam mixed with silty soils, very pale brown (10 YR 7/3) when moist; weak, fine granular structure; soft, friable when moist, slightly sticky and slightly plastic when wet; moderately alkaline (pH 8.4) strongly calcareous.

ATTACHMENT VIII

(Water Well Logs)

Form WR-23 STATE ENGINEER OFFICE

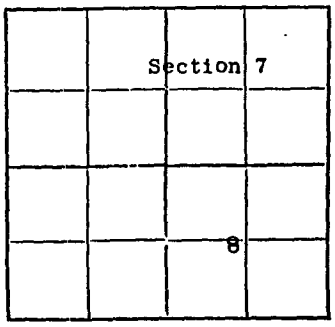
FIELD ENGR. LOG

WELL RECORD

COPY

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



(Plat of 640 acres)

(A) Owner of well City of Hobbs "Well No. "

Street and Number P.O. Box 1117

City Hobbs State New Mexico

Well was drilled under Permit No. L-3274 and is located in the SE ¼ SW ¼ NE ¼ of Section 7 Twp. 18S Rge. 38E

(B) Drilling Contractor Walco Drilling Co. License No. 349

Street and Number 212 E. New York

City Hereford State Texas

Drilling was commenced June 13 19 66

Drilling was completed June 15 19 66

Elevation at top of casing in feet above sea level ..... Total depth of well 180'

State whether well is shallow or artesian shallow Depth to water upon completion 34'

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation
1	34	45	11	sandrock and sand layers
2	45	50	5	red sand
3	55	174	119	sand and rock stringers
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth Top	Depth Bottom	Feet	Type Shoe	Perforations From	Perforations To
16	42.05	none	+1'3"	180'	181'3"		61 ft.	171 ft.

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
0	30	30"	--	3½ yds	poured in from top

Section 5 PLUGGING RECORD

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 ..... 19 ....

Plugging approved by:

..... Basin Supervisor

Cement Plugs were placed as follows:

No.	Depth of Plug From	Depth of Plug To	No. of Sacks Used

FOR USE OF STATE ENGINEER ONLY

Date Received Sept. 11 1967 8:29AM

File No. L-3274 Use Mdni Location No. 18.38.7. 234434

Section 6

LOG OF WELL

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	2	2	brown	top soil
2	32	30	white	caliche and caprock
32	45	13	buff	sandrock and sand layers
45	50	5	red	red sand
50	55	5	buff	clay
55	174	124	buff	sand and rock stringers
174	180	6	red	redbed

L S Elev [illegible]
Depth to K [illegible] Trc [illegible]
Elev of K [illegible] Trc [illegible]

Loc. No. 18.38.7.234434
Hydro. Survey [ ] Field Check X

SOURCE OF ALTITUDE GIVEN
Interpolated from Topo. Sheet
Determined by Inst. Leveling
Other [illegible]

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Walco Drilling Co.
By: (s) Larry Haney
Well Driller

STATE ENGINEER OFFICE

Form WR-23

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) Owner of well Tret-O-Lite

Street and Number P. O. Box 1571

City Hobbs State New Mexico

Well was drilled under Permit No. L-6108 and is located in the ¼ SE ¼ NE ¼ of Section 7 Twp. 18S. Rge. 38E.

(B) Drilling Contractor Abbott Brothers License No. WD-46

Street and Number P. O. Box 857

City Hobbs State New Mexico

Drilling was commenced February 22, 19

Drilling was completed February 24, 19 67

(Plat of 640 acres)

Elevation at top of casing in feet above sea level Total depth of well 120

State whether well is shallow or artesian shallow Depth to water upon completion 60

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation
1	60	70	10	water sand
2	95	120	25	water sand
3				
4				
5				

Section 3 RECORD OF CASING

Dia. in.	Pounds ft.	Threads in	Depth Top	Depth Bottom	Feet	Type Shoe	Perforations From	Perforations To
7	20	8	0	120	120	Open	60	120

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used

Section 5 PLUGGING RECORD

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 19

Plugging approved by:

Basin Supervisor

Cement Plugs were placed as follows:

No.	Depth of Plug From	Depth of Plug To	No. of Sacks Used

FOR USE OF STATE ENGINEER ONLY

Date Received

STATE ENGINEER OFFICE
MAR 6 AM 8:31
1967

File No. L-6108 Use O & D Location No. 18.38.7.240

Section 6

LOG OF WELL

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	18	18		Soil
18	20	2		Caliche
20	40	20		Sand and rock
40	70	30		Water sand
70	95	25		Sandy clay
95	120	25		Water sand

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Murrell A. Hatfield
Well Driller

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

FIELD ROR. LOG FILED

Section 1. GENERAL INFORMATION

Owner of well OTIS ENGINEERING CO. Owner's Well No. L-7935
Street or Post Office Address 1500 W. MARLAND
City and State HOBBS N.M. 88240

Well was drilled under Permit No. L-7935 and is located in the:

a. ___ ¼ ___ ¼ SE ¼ NE ¼ of Section 7 Township 18-S Range 38-E N.M.P.M.

b. Tract No. ___ of Map No. ___ of the ___

c. Lot No. 3 of Block No. 6 of the 2nd UNIT DEL NORTE Subdivision, recorded in ___ County.

d. X= ___ feet, Y= ___ feet, N.M. Coordinate System ___ Zone in the ___ Grant.

Drilling Contractor YUCCA DRILLING CO. License No. WD-763
Address 1601 W. Bender Hobbs N.M. 88240

Drilling Began 7-1-78 Completed 7-5-78 Type tools TYCONE Size of hole 11 in.
Elevation of land surface or ___ at well is ___ ft. Total depth of well 100 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 65 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
65	100	35	SAND & SANDSTONE	19
			pebbles	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5 5/8	PVC 160		0	100	20		80	100

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
0	100	11			Air

Section 5. PLUGGING RECORD

Plugging Contractor ___
Address ___
Plugging Method ___
Date Well Plugged ___
Plugging approved by:
___
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received July 11, 1978
Quad ___ FWL ___ FSL ___
File No. L-7935 Use DTC Location No. 18.38.7.24130

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	45	45	CALICHE
45	100	55	SAND & SANDSTONE PEBBLES

Section 7. REMARKS AND ADDITIONAL INFORMATION

'78 JUL 11 AM 8 30

STATE ENGINEER OFFICE
ROSWELL, N. M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Walter Falkner
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A ions, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepene /hen this form is used as a plugging record, only Section 1(a) and Section ired to be completed

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

FIELD CHECK

Section 1. GENERAL INFORMATION

(A) Owner of well New Mexico Bank & Trust Owner's Well No. _____
Street or Post Office Address P.O. Box 400
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7115 and is located in the:

a. _____ ¼ SE ¼ NE ¼ _____ ¼ of Section 7 Township 18S Range 38E N.M.P.M

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. 1-4 of Block No. 5 of the Del Norte Indus. Unit Sub-Division, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Brothers License No. WD46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 11/8/73 Completed 11/8/73 Type tools Cable Size of hole 8¼ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 141 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 49 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
70	141		Brown Sand	100

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
7	22	8	0	141	141	None	74	141

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
					Cemented ground surface

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 11/14/73

Quad _____ FWL _____ FSL _____

File No. L-7115 Use DTC Location No. 18.38.2243

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	30		Soil and Caliche
30	45		Hard Sand Rock
45	60		Sand
60	82		Gray Sand
82	141		water Sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

1973 NOV 26 AM 8:07
STATE ENGINEER OFFICE
DISTRICT II
ROSWELL, N.M.

1973 NOV 14 AM 8:25
STATE ENGINEER OFFICE
DISTRICT II
ROSWELL, N.M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Abbott Bros.
Driller Helen Baker

INSTRUCTIONS: This fo- should be executed in triplicate, preferably typewritten, and submitted t appropriate district office of the State Engineer. A tions, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepene When this form is used as a supplement

Form WR-23 STATE ENGINEER OFFICE FIELD ENGR. LOG

WELL RECORD

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

Section 1

(Plat of 640 acres)

(A) Owner of well

Street and Number

City State

Well was drilled under Permit No. and is located in th ¼ ¼ ¼ of Section Twp. Rge.

(B) Drilling Contractor License No.

Street and Number

City State

Drilling was commenced 19

Drilling was completed 19

Elevation at top of casing in feet above sea level Total depth of well 206

State whether well is shallow or artesian shallow Depth to water upon completion 5.'

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation
1	55	120	65	water sand
2	140	180	40	water sand
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth Top	Depth Bottom	Feet	Type Shoe	Perforations From	Perforations To
12¾	35	welded	1	200	208	none	141	206

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used

Section 5 PLUGGING RECORD

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 19

Plugging approved by:

Basin Supervisor

Cement Plugs were placed as follows:

No.	Depth of Plug From	Depth of Plug To	No. of Sacks Used

FOR USE OF STATE ENGINEER ONLY

Date Received

No. L-5294 Use IRR Location No. 18-38-6-413121

File

ction 6

LOG OF WELL

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	1	1	brown	soil
1	15	15	gray	caliche
15	40	25	brown	sand
40	55	15	brown	sand rock
55	120	65	brown	~~xxxxx~~ water sand
120	140	20	brown	tight sand
140	160	20	brown	water sand
160	170	10	white	gravel
170	206	16	brown	sand & clay

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Russell Abbott
Well Driller

Revised June 197

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGR

Section 1. GENERAL INFORMATION

(A) Owner of well College of the Southwest Owner's Well No. _____
Street or Post Office Address P.O. Box 2508
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-2790 and is located in the:

a. ____ ¼ ____ ¼ NE ¼ SW ¼ of Section 6 Township 18S Range 38E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. Drilling License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 6/15/81 Completed 6/16/81 Type tools Cable Size of hole 12½" in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 170 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 58 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
58	82	24	Sand	
106	141	35	Sand	
150	166	16	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
10 3/4	34	Welded	0	170	170	NONE	90	170

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received June 22, 1981

Quad _____ FWL _____ FSL _____

File No. L-2790 IRR. 18.38.6.414114

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	2	2	Surface Soil
2	26	24	Caliche
26	58	32	Sand-tight
58	82	24	Sand-water
82	106	24	Sand-tight
106	141	35	Sand-water
141	150	9	Sand-tight
150	166	16	Sand-water
166	170	4	Sandy clay

Section 7. REMARKS AND ADDITIONAL INFORMATION

JUN 22 8 41 AM '81

STATE ENGINEER
ROSWELL, NM

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott J.B.
Driller

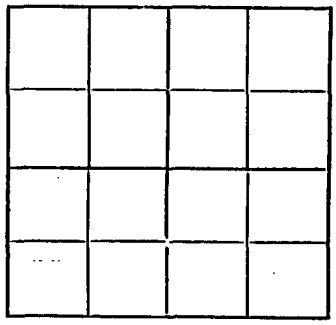
INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this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

STATE ENGINEER OFFICE D. In #3 Gulf

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



(Plat of 640 acres)

(A) Owner of well DONNELL DRILLING CO.
Street and Number Box 1308
City Odessa State Texas
Well was drilled under Permit No. and is located in the
¼ NE ¼ SE ¼ of Section 6 Twp. 18 S Rge. 38 E
(B) Drilling Contractor Abbott Brothers License No. WD-46
Street and Number Box 637
City Hobbs State New Mexico
Drilling was commenced August 30 1957
Drilling was completed August 31 1957

Elevation at top of casing in feet above sea level Total depth of well 100
State whether well is shallow or artesian shallow Depth to water upon completion 50

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation
1	50	100	50	water sand
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth Top	Depth Bottom	Feet	Type Shoe	Perforations From	Perforations To

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used

Section 5 PLUGGING RECORD

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 19
Plugging approved by:

Basin Supervisor

Cement Plugs were placed as follows:

No.	Depth of Plug From	Depth of Plug To	No. of Sacks Used

FOR USE OF STATE ENGINEER ONLY

Date Received SEP 11 1957

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

File No. L-3672 Use O.W.D. Location No. 18.38.6.420

Section 6

LOG OF WELL

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	1	1		soil
1	22	21		caliche
22	35	13		sand
35	40	5		sand rock
40	50	10		sand
50	100	50		water sand

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Russell Calbert

Well Driller

Revised June 19

STATE ENGINEER OFFICE

WELL RECORD

FIELD

Section 1. GENERAL INFORMATION

(A) Owner of well Charismatic Christian Center Owner's Well No. _____

Street or Post Office Address Lovington Highway

City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7078 and is located in the:

a. _____ ¼ SW ¼ SW ¼ SE ¼ of Section 6 Township 18S Range 38E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____

Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant

(B) Drilling Contractor Abbott Bros. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 7/12/73 Completed 7/13/73 Type tools Cable Size of hole 8 in

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 58 ft

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
58	120	62	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
7	23	10	0	120	120	NONE	74	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
					Cement at top

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____

State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. L-7078 Use DTC Location No. 18.38.6.433

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Surface soil
3	26	23	Caliche
26	58	Sand	(tight)
58	86	28	Sand-water
86	114	28	Sand (tight)
114	120	6	Sand-water

Section 7. REMARKS AND ADDITIONAL INFORMATION

'75 SEP 8 AM 8 47

STATE ENGINEER OFFICE
ROSWELL, N.M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott
Driller N.B.

INSTRUCTIONS: This ' should be executed in triplicate, preferably typewritten, and submitted t appropriate district office of the State Engineer, ctions, except Section 5, shall be answered as completely and accurate possible when any well is

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

TRD [illegible]

Section 1. GENERAL INFORMATION

(A) Owner of well R. N. Robinson Owner's Well No. 625 23

Street or Post Office Address

City and State Hobbs N. M. 88240

Well was drilled under Permit No. 2-7575 and is located in the:

a. ___ ¼ SE ¼ NE ¼ NE ¼ of Section 7 Township 18S Range 38E N.M.P.M

b. Tract No. ___ of Map No. ___ of the ___

c. Lot No. 12 of Block No. 2A of the Del Norte Industrial Subdivision, recorded in LEA County.

d. X= ___ feet, Y= ___ feet, N.M. Coordinate System ___ Zone in the ___ Grant.

(B) Drilling Contractor G.D. Oldaker W.W. Sen. License No. WD 657

Address P.O. Box 2321 Hobbs N.M. 88240

Drilling Began 6-7-1976 Completed 6-9-76 Type tools Cable Size of hole 8 in.

Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 112 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 65 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
65	112	47	Water Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6 5/8			0	112	112	None	100	112

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
		8			

Section 5. PLUGGING RECORD

Plugging Contractor ___

Address ___

Plugging Method ___

Date Well Plugged ___

Plugging approved by:

___

State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad ___ FWL ___ FSL ___

File No. 2-7575 Use Dom. Location No. 18.38.7.224

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	1	1	Top Soil Black. Soft
1	26	25	Caliche gray. Med
26	36	10	Hard Rocks Brown
36	112	76	Water Sand RedBrown Soft

Section 7. REMARKS AND ADDITIONAL INFORMATION

'76 JUN 29 AM 8 30

STATE ENGINEER OFFICE

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

R P Oldaker

Driller

INSTRUCTIONS: This fo- should be executed in triplicate, preferably typewritten, and submitted t he appropriate district office of the State Engineer. A tions, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section

(This form to be [illegible]ted in triplicate)

WELL RECORD

Date of Receipt..... Permit No. L-1173

Name of permittee, Harry C Huston

Street or P.O., box181, City and State Lovington N.M.

1. Well location and description: The shallow (shallow or artesian) well is located in SW ¼, SW ¼, SE ¼ of Section 6, Township 16S, Range 38E; Elevation of top of casing above sea level, ... feet; diameter of hole, 6 inches; total depth, 50 feet; depth to water upon completion, 30 feet; drilling was commenced 8-22, 19 51, and completed 8-23, 1951; name of drilling contractor J E Burton; Address, Box 42 Hobbs N.M.; Driller's License No. WD14

2. Principal Water-bearing Strata:

	Depth in Feet From	To	Thickness	Description of Water-bearing Formation
No. 1	0	1	1	tight soil
No. 2	1	21	20	caliche
No. 3	21	30	9	sandstone
No. 4	30	50	20	watersand
No. 5				

3. Casing Record: None

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner Top	Depth of Casing or Liner Bottom	Feet of Casing	Type of Shoe	Perforations From	Perforations To

4. If above construction replaces old well to be abandoned, give location: ¼, ¼, ¼ of Section ....., Township ....., Range .....; name and address of plugging contractor, ...

date of plugging ....., 19....; describe how well was plugged: .....

FILED
JAN 17 1952
OFFICE
ARTESIAN WELL SUPERVISOR
ROSWELL, NEW MEXICO

5. Log of Well:

Depth in feet From	Depth in feet To	Thickness in feet	Description of Formation
0	1	1	tight soil
1	21	20	caliche
21	30	9	sandstone
30	50	20	watersand

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Licensed Well Driller

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

FIELD CHECK

Section 1. GENERAL INFORMATION

(A) Owner of well Castle and Wigzell Owner's Well No. _____

Street or Post Office Address P.O. Drawer 831

City and State Midland, Texas 79701

Well was drilled under Permit No. L-7212 and is located in the:

a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. 3 of Block No. 7 of the Del Norte Industrial (2nd unit) Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant

(B) Drilling Contractor Abbott Bros. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 6/10/74 Completed 6/12/74 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 100 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
50	100	50	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
7	23	10	0	100	100	None	50	100

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
					Cement at top

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____

State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. 2-7212 Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	2	2	Surface Soil
2	20	18	Caliche
20	50	30	Sand
50	100	50	Water Sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

'75 SEP 8 AM 8 47
STATE ENGINEER OFFICE
ROSWELL, N. M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott
Driller N.B.

INSTRUCTIONS: This f should be executed in triplicate, preferably typewritten, and submitted t
of the State Engineer. ctions, except Section 5, shall be answered as completely and accurate appropriate district office possible when any well is

Revised June 197

STATE ENGINEER OFFICE

WELL RECORD

FILE U...

Section 1. GENERAL INFORMATION

(A) Owner of well Gerge Barton Owner's Well No. 80348 1

Street or Post Office Address 300W. Taylor

City and State Hobbs, N. M. 88240

Well was drilled under Permit No. L- 8076 and is located in the:

a. ____ ¼ SW ¼ SE ¼ NW ¼ of Section 7 Township 18S Range 38E N.M.P.M.

b. Tract No. ____ of Map No. ____ of the ____

c. Lot No. 2 of Block No. 6 of the 2nd Unit Del Norte Industricl Subdivision, recorded in Lea County.

d. X= ____ feet, Y= ____ feet, N.M. Coordinate System ____ Zone in the ____ Grant

(B) Drilling Contractor G. D. Oldaker License No. ____

Address P. O. Box 2321, Hobbs, N. M. 88240

Drilling Began 5-30-79 Completed 6-3-79 Type tools Cable Size of hole 9 in.

Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 130 ft

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 67 ft

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
67	130	63	Water, Sand	25 G. P. M

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6 5/8			0	130	130	none	110	130

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
		9			

Section 5. PLUGGING RECORD

Plugging Contractor ____

Address ____

Plugging Method ____

Date Well Plugged ____

Plugging approved by:

____

State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received June 13, 1979

Quad ____ FWL ____ FSL ____

File No. L-8076 Use DOM. Location No. 18.38.7.14300

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Top Soil Black Soil
3	18	15	Caliehe
18	33	15	Gray
33	63	30	Water, Sand
63	67	4	Rocks
67	130	63	Water, Sand
130			

Section 7. REMARKS AND ADDITIONAL INFORMATION

'79 JUN 13 AM 8 12

STATE ENGINEER OFFICE
ROSWELL, N. M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

L. D. Alsabrook
Driller

INSTRUCTIONS: This for hould be executed in triplicate, preferably typewritten, and submitted t appropriate district office of the State Engineer. Al ions, except Section 5, shall be answered as completely and accurat possible when any well is

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Ladshaw Explosives Owner's Well No. _____
Street or Post Office Address P.O. Box 1754
City and State Hobbs, N.M. 88240

Well was drilled under Permit No. Monitor Well and is located in the:

a. _____ ¼ NW¼SW¼ ¼ NW¼ ¼ ~~NE~~ ¼ of Section ~~xxx~~ 7 Township 18S Range 38E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant

(B) Drilling Contractor Alan Eades License No. WD-1044

Address 49 Katy Lane, Hobbs, N.M. 88240

Drilling Began 4-20-87 Completed 4-20-87 Type tools Rotary Size of hole 6 1/2 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 65 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 36 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
36	65	29	Water Sand	35

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
4 3/4	160psi				65		35	65

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received May 22, 1987
Quad _____ FWL _____ FSL _____
File No. NO FILE NUMBER Use OBS Location No. 18.38.7.13133

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	1	1	Top Soil
1	15	14	Caliche
15	30	15	Sand
30	31	1	Rock
31	35	4	Wet Sand
35	36	1	Rock
36	65	29	Water Sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Alan Eades

Driller

INSTRUCTIONS: This fo uld be executed in triplicate, preferably typewritten, and submitt ons, except Section 5, shall be answered as completely and accu ie appropriate district office as possible when any well is

Revised June 197?

STATE ENGINEER OFFICE

WELL RECORD

FIELD E[illegible]

Section 1. GENERAL INFORMATION

(A) Owner of well Galilea Sands Mobil Homes Inc Owner's Well No. ______
Street or Post Office Address 10021 Central S.E.
City and State Albuquerque New Mex. 87123

Well was drilled under Permit No. L-8517 and is located in the:

a. ____ ¼ ____ ¼ NW ¼ NE ¼ of Section 7 Township 18-S Range 35-E N.M.P.M.

b. Tract No. ______ of Map No. ______ of the ______

c. Lot No. 1-5 of Block No. 9 of the Oil North Industrial Unit
Subdivision, recorded in ______ County.

d. X= ______ feet, Y= ______ feet, N.M. Coordinate System ______ Zone in the ______ Grant.

(B) Drilling Contractor 2 Bud's Drilling Co License No. WD 940

Address Box 822 Hobbs N.M 88240

Drilling Began 9/15/81 Completed 9/30/81 Type tools Rotary Size of hole 7 in.

Elevation of land surface or ______ at well is ______ ft. Total depth of well 132' ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 43' ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
43'	130'	87'	water sand & Thin	50 GPM
			Layers of Sedimentary	
			Rock	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5½"			1' above	119	121'	None	79'	119'

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor ______
Address ______
Plugging Method ______
Date Well Plugged ______
Plugging approved by:

______
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received October 8, 1981

Quad ______ FWL ______ FSL ______

File No. L-8517 Use DTC Location No. 18.38.7.211312

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0'	4'	4'	Brown Sand & Top Soil
4'	20'	16'	Brown Sand & Caliche
20'	43'	23'	Hard Brown Sand Stone
43'	133'	90'	Tan & Brown water sand with thin layers of ~~caliche~~ Caliche and Red Rock.

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER
ROSWELL, NM
OCT 8 8 34 AM '81

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All ions, except Section 5, shall be answered as completely and accurate possible when any well is

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Ron Campbell (Campbell Nobile Homes) Owner's Well No. _____
Street or Post Office Address 6050 Lovington HWY.
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-8663 and is located in the:

a. _____ ¼ NE ¼ NE ¼ NW ¼ of Section 7 Township 18 S Range 38 E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. 1 of the Del Norte Industried Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor G. D. Oldaker License No. WD-657

Address P. O. Box 2321 Hobbs, New Mexico 88240

Drilling Began 2-17-82 Completed 2-19-82 Type tools Rotary Size of hole 10¼ in.

Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 130 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 58 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
58	130	72	Water, Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6 5/8			0	130	130	None	120	130

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
		10¼			

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received March 17, 1982

Quad _____ FWL _____ FSL _____

File No. L-8663 Use DTC Location No. 18.38.7.122411

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	2	2	Brown Dirty
2	20	18	Caliche
20	25	5	Gray Soil
25	55	30	Brown Rock
55	130	75	Water Sand
130			

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER
ROSWELL, NM

MAR 17 8 21 AM '02

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

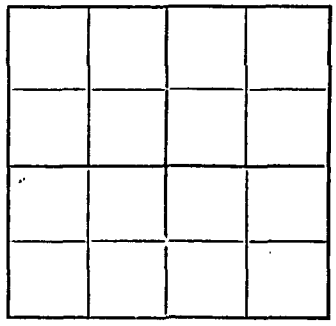
INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is

Form WR-23 Orig + 5.t. 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



(Plat of 640 acres)

(A) Owner of well Cloud Breckon

Street and Number star route A

City Hobbs State N M

Well was drilled under Permit No. Cleaned L-2453 and is located in the SW ¼ NW ¼ NW ¼ of Section 7 Twp. 18s Rge. 38e

(B) Drilling Contractor J F Barton License No. WD14

Street and Number Box 42

City Hobbs State N M.

Drilling was commenced Cleaning May 22- 19 58

Drilling was completed Cleaning May 22- 19 58

Elevation at top of casing in feet above sea level ..... Total depth of well 90

State whether well is shallow or artesian shallow Depth to water upon completion no water

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation
1	drilled and bailed, from 76 to 90 feet in wet caving sand.			
2				
3				
4				
5				

Section 3 RECORD OF CASING None

Dia in.	Pounds ft.	Threads in	Depth Top	Depth Bottom	Feet	Type Shoe	Perforations From	Perforations To

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used

Section 5 PLUGGING RECORD

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 ..... 19 .....

Plugging approved by:

..... Basin Supervisor

Cement Plugs were placed as follows:

No.	Depth of Plug From	Depth of Plug To	No. of Sacks Used

FOR USE OF STATE ENGINEER ONLY

Date Received ..... FILED MAY 27 1958 OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO

File No. L-2453 Use Dom Location No. 18.38.7.113

Section 6

LOG OF WELL

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color	Type of Material Encountered

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Jim Sharp Owner's Well No. L-8549

Street or Post Office Address 1815 Chama

City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-8549 and is located in the:

a. ¼ ¼ SE ¼ SW ¼ of Section 36 Township 18 Range 38 E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. 1,2,3,4, of Block No. 3 of the Del Norte Industrial Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor G. D. Oldaker License No. WD-657

Address P. O. Box 2321 Hobbs, New Mexico 88240

Drilling Began 9-30-81 Completed 10-1-81 Type tools Rotary Size of hole 10½ in.

Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 130 ft.

Completed well is ☑ shallow ☐ artesian. Depth to water upon completion of well 48 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
48	130	72	Water Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6 5/8			0	130	130	None	120	130

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
		10½			

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____ State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received March 26, 1982 Quad _____ FWL _____ FSL _____

File No. L-8549 Use DTC Location No. 18.38.6.344113

Section 6. LOG OF HOLE:

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Top soil Brown
3	15	12	Caliche
15	45	30	Gray Soil
45	46	1	Hard Brown Rock
46	130	74	Water Sand
130			

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

G. D. Oldaker
Driller

INSTRUCTIONS: This for hould be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A tions, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepens. When this form is used as a plugging record, only Section 1(a) and Section

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Cities Oil Well Service Inc. Owner's Well No. _____

Street or Post Office Address _____

City and State _____

Well was drilled under Permit No. L-8007 and is located in the:

a. SE ¼ ~~SW~~ ¼ ~~NW~~ ¼ SW ¼ of Section 6 Township 18-S Range 38-E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____ Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor C. M. Griffin License No. WD 603

Address 201 W. Alto Hobbs, N. Mex. 88240

Drilling Began 11-22 78 Completed 11-28-78 Type tools Rotary Size of hole 10 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 140 ft.

Completed well is ☑ shallow ☐ artesian. Depth to water upon completion of well 62 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
62	140	78	Red Bed	55

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6 5/8			0	140	140	Texas	120	140

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
62	140	10	5		Gel w/water

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____

State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received August 16, 1979

Quad _____ FWL _____ FSL _____

File No. L-8007 Use DTC Location No. 18.38.6.34413 4

Section 6. LOG OF HOLE:

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Top soil
3	62	59	White caliche rock
62	140	78	Red sand w/ rock stringers

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

C. B. Griffin
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office