

GW - 282

**GENERAL
CORRESPONDENCE**

YEAR(S):
2002 - 1996

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 11/12/02,
or cash received on _____ in the amount of \$ 100.00

from Safety & Envir. Solutions for Lucky Services
for Hobbs Service Facility GW-282

Submitted by: [Signature] (Family Name) Date: 11-19-02 (DP No.)

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ☒ New Facility _____ Renewal ☒

Modification _____ Other _____
(Specify)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment _____

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
P.O. BOX 1613 PH. 505-397-0510
HOBBS, NM 88241

1ST NATIONAL BANK
HOBBS, NM
95-43/1122

11/12/2002

PAY TO THE ORDER OF New Mexico Environmental Department

\$ **100.00

One Hundred and 00/100***** DOLLARS

New Mexico Environmental Department

MEMO

[Signature]
AUTHORIZED SIGNATURE

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

New Mexico Environmental Department

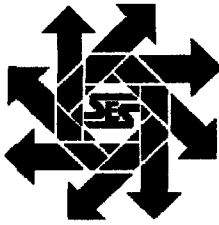
Discharge Plan

(11/12/2002


100.00

First National Bank

100.00



P.O. Box 1613
700 Clinton Suite 102
Hobbs, New Mexico 88240
505/397-0510
Fax 505/393-4388
www.sesi-nm.com

Safety & Environmental Solutions, Inc.

November 14, 2002

282

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Discharge Plan Application

Dear Jack:

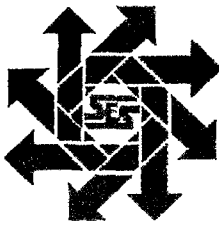
Enclosed please find a discharge application for renewal of the already existing discharge plan for Lucky Services, Inc., an oil field service company, located in Hobbs, New Mexico. Also enclosed are the revised sections of the plan.

The only changes to the previous plan are that they no longer store fresh water, brine water, or KCL water.

If you require further information or have any questions please contact me at 505-397-0510.

Thank you,

Bob Allen, CHMM, REM, CET, CES
President
BA/mp



P.O. Box 1613
700 Clinton Suite 102
Hobbs, New Mexico 88240
505/397-0510
Fax 505/393-4388
www.sesi-nm.com

Safety & Environmental Solutions, Inc.

January 13, 2003

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Lucky Services, Inc,

Dear Jack:

This letter will confirm that the posting requirements for the discharge plan renewal for Lucky Services, Inc. have been met. The Notice of Publication was posted on the fence surrounding Lucky Services, Inc in English and Spanish; a copy of each posting is enclosed.

Please forward your approval of the discharge plan along with an invoice in the appropriate amount at your convenience.

If you require further information or have any questions please contact me at 505-397-0510.

Thank you,

Bob Allen, CHMM, REM, CET, CES
President
BA/mp

NOTICE OF PUBLICATION

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

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

(GW-282) – Lucky Services, Inc., Mr. Dwayne Taylor, P. O. Box 5790, Hobbs, New Mexico 88240, has submitted a discharge plan renewal application for their Hobbs Service facility located in the NE/4 SW/4, Section 6, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of 25 feet with a total dissolved solids of approximately 100 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above.

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

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 19th day of November, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY, Director

AVISO DE LA PUBLICACIOY

**EN ESTADO DE NUEVO MEXICO
LA ENERGIA DE MINERALES Y DE LOS RECURSOS NATURALES
LA DIVISION DE LA CONSERVACION DEL ACEITE DEL DEPARTAMENTO**

El aviso se da por este medio eso conforme a las regulaciones de la Comision del control de calidad del agua de Nuevo Mexico, el uso siguiente del plan de la descarga se ha sometido al director de la division de la conservacion del aceite, impulsio del sur de 1220 Santo Francis, Santa Fe, Nuevo Mexico 87505, telefono (505) 476-3440:

(Gw-282) Lucky Services, Inc., Sr. Dwayne Taylor, P. O. Box 5790, Hobbs, Nuevo Mexico 88240, ha sometido un uso de la renovacion del plan de la descarga para su facilidad del servicio de Hobbs situada en el NE/4 SW/4, seccion 6, township 18 del sur, se extiende 38 del este, NMPM, condado de Lea, Nuevo Mexico. Cualquier descarga potencial en la facilidad sera almacenada en un receptoculo superior cerrado antes del transporte a una facilidad de disposicion aprobada OCD del apagado-sitio. La agua subteranea que se afectara por una descarga accidental es muy probablemente en una profundidad de 25 pies con salidos disueltos totales de aproximadamente 100 mg/l. Las direcciones del plan de la descarga como el derramamiento, los escapes, y otras descargas accidentales a la superficie seran manejados.

Cualquier persona interesada puede obtener la informacion adicional de la division de la conservacion del aceite y puede someter comentarios escritos al director de la division de la conservacion del aceite en la direccion dada arriba. El uso del plan de la descarga se puede ver en la direccion antedicha entre 8:00 manana y 4:00 P.M., lunes por viernes. Antes de la decision en cualquier plan propuesto de la descarga o su modificacion, el director de la division de la conservacion del aceite dara un plazo por lo menos de treinta (30) dias despues de la fecha de la publicacion de este aviso durante la cual los comentarios se pueden someter a el y la audiencia publica se puede solicitar por cualquier persona interesada. El pedido la audiencia publica dispondra las razones por las que una audiencia sera llevada a cabo. Una audiencia sera llevada a cabo si el director se determina que hay interes publico significativo.

Si no se lleva a cabo ninguna audiencia, el director aprobara o desaprobara el plan basado en la informacion disponible. En si se lleva a cabo una audiencia publica, el director aprobara el plan basado la informacion en el plan e informacion presentada en la audiencia.

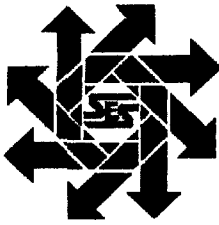
DADO bajo sello de la Comision de la conservacion de Nuevo Mexico en Santa Fe, Nuevo Mexico, en este diecinueveavo dia de Noviembre de 2002.

ESTADO DE NUEVO MEXICO

**LA DIVISION DE LA CONSERVACION
DEL ACEITE**

SELLO

LORI WROTENBERY, Director



P.O. Box 1613
700 Clinton Suite 102
Hobbs, New Mexico 88240
505/397-0510
Fax 505/393-4388
www.sesi-nm.com

Safety & Environmental Solutions, Inc.

December 9, 2002

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Luck Services, Inc,

Dear Jack:

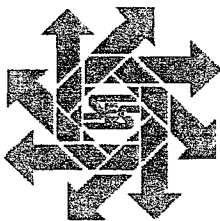
Enclosed please find a copy of the written notice of the discharge plan renewal application for Lucky Services, Inc., which was sent by certified mail, return receipt requested, to owners of record of all adjacent properties.

The Notice of Publication has also been posted on the fence surrounding Lucky Services, Inc in English and Spanish; a copy of each posting is enclosed.

If you require further information or have any questions please contact me at 505-397-0510.

Thank you,

Bob Allen, CHMM, REM, CET, CES
President
BA/mp



P.O. Box 1613
703 E. Clinton Suite 103
Hobbs, New Mexico 88240
505/397-0510
fax 505/393-4388
www.sesi-nm.com

Safety & Environmental Solutions, Inc.

December 3, 2002

Dear Sir or Madam:

Enclosed please find a copy of the Notice of Publication for the application for the renewal of New Mexico Oil Conservation Division (NMOCD) Discharge Plan # GW-282. The notice of publication is given pursuant to the New Mexico Water Quality Control Commission regulations.

Please direct any questions regarding this notice to the Director of the Oil Conservation Division at the address on the notice.

Thank you for your cooperation in this matter.

Sincerely,

Bob Allen REM, CET, CES
President

NOTICE OF PUBLICATION

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

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

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 19th day of November, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY, Director

NOTICE OF PUBLICATION

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STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

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LORI WROTENBERY, Director

AVISO DE LA PUBLICACION

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LA ENERGIA DE MINERALES Y DE LOS RECURSOS NATURALES
LA DIVISION DE LA CONSERVACION DEL ACEITE DEL DEPARTAMENTO**

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DADO bajo sello de la Comision de la conservacion de Nuevo Mexico en Santa Fe, Nuevo Mexico, en este diecinueveavo dia de Noviembre de 2002.

ESTADO DE NUEVO MEXICO

**LA DIVISION DE LA CONSERVACION
DEL ACEITE**

SELLO

LORI WROTENBERY, Director



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

July 10, 2002

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 9062

Mr. Kevin Necaise
Lucky Services, Inc.
P.O. Box 5790
Hobbs, New Mexico 88240

RE: Discharge Plan Renewal Notice

Dear Mr. Necaise:

Lucky Services, Inc. has the following discharge plan, which expires during the calendar year 2003.

GW-282 expires 1/16/2003 – Hobbs Service Facility

WQCC 3106.F. If the holder of an approved discharge plan submits an application for discharge plan renewal at least 120 days before the discharge plan expires, and the discharger is not in violation of the approved discharge plan on the date of its expiration, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. A discharge plan continued under this provision remains fully effective and enforceable. An application for discharge plan renewal must include and adequately address all of the information necessary for evaluation of a new discharge plan. Previously submitted materials may be included by reference provided they are current, readily available to the secretary and sufficiently identified to be retrieved. [12-1-95]

The discharge plan renewal application for each of the above facilities is subject to WQCC Regulation 20NMAC 6.2.3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$100.00. After January 15, 2001 renewal discharge plans require a flat fee equal to \$1,700.00 which is the flat fee schedule for oil field service facilities pursuant to revised WQCC Regulations 20NMAC 6.2.3114. The \$100.00 filing fee is to be submitted with each discharge plan renewal application and is nonrefundable.

Mr. Kevin Necaise
July 10, 2002
Page 2

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

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

Sincerely,



Roger C. Anderson
Oil Conservation Division

RCA/wjf

cc: OCD Hobbs District Office

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To
Street, Apt. No.;
or PO Box No.
City, State, ZIP+ 4

PS Form 3800, January 2001
See Reverse for Instructions

2002 JUL 11 700
90548
Necaise
610-782

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 1/22/98,

or cash received on _____ in the amount of \$ 1380.00

from Lucky Services

for Hobbs GW-282

Submitted by: _____ Date: _____

Submitted to ASD by: R. Chandra Date: 2/10/98

Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility _____ Renewal _____

Modification _____ Other _____

Organization Code 521.07 Applicable FY 98

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

LUCKY SERVICES, INC.

PH. 505-392-1547
P.O. BOX 5790
HOBBS, NM 88241-5790

WESTERN COMMERCE BANK
HOBBS, NEW MEXICO 88240
95-108-1122

PAY One thousand three hundred eighty dollars and 00/100 cents

TO THE ORDER OF NMED - Water Quality Management
2040 S. Pacheco
Santa Fe, NM 87505

DATE

AMOUNT

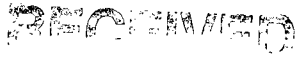
1-22-98

\$1380.00

Shayne Taylor

LUCKY SERVICES, INC.

DATE
1-22-98
CHECK NUMBER
[REDACTED]

INVOICE NUMBER	DATE	AMOUNT	DISCOUNT	NET AMOUNT
Discharge Plan				\$1380.00
				
JAN 27 1998				
Environmental Bureau Oil Conservation Division				
<i>GW-282 Hobbs Facility</i>				

LUCKY SERVICES, INC.

DATE
1-22-98
CHECK NUMBER

INVOICE NUMBER	DATE	AMOUNT	DISCOUNT	NET AMOUNT
Discharge Plan				\$1380.00
<i>GW-282</i>				

LUCKY SERVICES, INC.

PH. 505-392-1547
P.O. BOX 5790
HOBBS, NM 88241-5790

WESTERN COMMERCE BANK
HOBBS, NEW MEXICO 88240
95-108-1122

PAY One thousand three hundred eighty dollars and 00/100 cents

TO THE ORDER OF NMED - Water Quality Management
2040 S. Pacheco
Santa Fe, NM 87505

DATE 1-22-98 AMOUNT \$1380.00

Wayne Taylor

RECEIVED

JAN 27 1998

Environmental Bureau
Oil Conservation Division



RECEIVED

JAN 12 1998

CONSERVATION DIVISION

DWAYNE TAYLOR
PRESIDENT

P.O. BOX 5790

HOBBS, N.M. 88241

TELEPHONE
505-392-1547

January 09, 1998

Jack Ford
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Mr. Jack Ford

Enclosed are the pictures that you requested in October. I apologize for the delay. Between the industry being the busiest we have seen in years and extremely wet weather, it has been very difficult to do in a timely manner.

I hope this is what you needed. If you have any question, please do not hesitate to call me at (505) 392-1547. I am looking forward to seeing our plan approved.

Sincerely

A handwritten signature in cursive script that reads "Kevin Necaie".

Kevin Necaie
Safety Supervisor

mw

Enclosures

**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: Oilfield Service Company
2. Operator: Lucky Services, Inc.
Address: P.O. Box 5790 Hobbs, NM 88240
Contact Person: Kevin Necaie Phone: (505) 392-1547
3. Location: NE /4 SW /4 Section 6 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 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: Dwayne Taylor

Title: President

Signature: Dwayne Taylor

Date: 9/29/97

GLW-282
WC

Lucky Services, Inc.

DISCHARGE PLAN

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Current HAZCOM Inventory
 - VII. Sources and Quantities of Effluent and Waste Solids Generated at the Facility
 - VIII. Description of Current Liquid and Solid Waste Collection/Storage/Disposal
Procedures
 - IX. Proposed Modifications
 - X. Inspection, Maintenance, and Reporting
 - XI. Spill/Leak Prevention and Reporting Procedures (Contingency Plan)
 - XII. Site Characteristics
 - XIII. Other Compliance Information
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3. Appendix B - Water Data (State Engineer's Office Well Logs, City of Hobbs Analyticals)
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5. Appendix D - Photographs of Compliance Engineering Changes

Lucky Services, Inc.

Discharge Plan

I. Type of Operation

Lucky Services, Inc. is an Oil and Gas Production Service Company that provides services to clients in the oilfield. These services include well workovers (pulling units), transport services, and miscellaneous labor requirements for oilfield production companies. The facility is located approximately 1 mile north of Hobbs, New Mexico on the Lovington highway.

The major purpose of the facility is to provide an equipment yard, office, routine maintenance building, and chemical storage area for Lucky Services, Inc. Only a very small quantity of non-domestic wastes are disposed of at the facility. The facility is classified as a Conditionally Exempt Small Quantity Generator (CESQG) under the Resource Conservation and Recovery Act (RCRA). The only domestic wastes generated at the facility are effluent discharged to the sewer system maintained by the city and regulated by the NMED, and household garbage picked up in dumpsters by Waste Control of New Mexico.

The normal hours of operation are 6:00 am to 5:00 pm Monday through Friday. The facility is fenced and secured during hours when company personnel are not present.

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

Operator: **Lucky Services, Inc.**
 P.O. Box 5790
 Hobbs, New Mexico 88240
 (505) 392-1547

Responsible Party: Same as above

Local Representative:

Dwayne Taylor - President

Bill Hicks - Operations Manager

Robert Reyes - Rig Supervisor

Kevin Necaise - Safety Supervisor

III. Location of the Discharge Plan Facility

Lucky Services, Inc. facility is located at 6210 Lovington Highway in Hobbs, New Mexico. The legal description of the facility is Township 18 South, Range 38 East, Section 6. GPS Coordinates are:

32° 46' 26" North Latitude
103° 11' 40" West Longitude

Elevation is 3882 feet above sea level.

Appendix A Figure 1 is a USGS Topographic Map, **Appendix A Figure 2** is a City of Hobbs street map, and **Appendix A Figure 3** is a City of Hobbs property ownership map defining the location of the subject property.

IV. Landowners

The landowner of record is: Lucky Services, Inc.
P.O. Box 5790
Hobbs, New Mexico 88240
Telephone: (505) 392-1547

V. Facility Description

The facility is situated on approximately 5 acres of land. A diagram of the facility including facility/property boundaries, fences, pits, berms, tanks, locations of discharges, storage facilities, disposal facilities, processing facilities, and other areas is shown in **Appendix A Figure 4**. The facility consists of the following:

- An office building (See **Appendix A figure 5**)
- A maintenance/shop building attached to the office
- An asphalt truck wash bay with associated sump
- A fuel island protected by secondary containment consisting of:
 - (1) 1 - 8000 gallon above ground diesel tank for highway use
 - (2) 1- 2000 gallon above ground unleaded gasoline tank
 - (3) 1- 2000 gallon above ground diesel tank for non-highway use
 - (4) 1 - 250 gallon above ground storage tank (to store methanol- presently out of service, secondary containment will be constructed)
- 1- 500 barrel fresh water storage tank
- 1- 500 barrel brine water storage tank (presently out of service, secondary containment will be constructed if put back into service)
- 1- 500 barrel KCL water storage tank (presently out of service, secondary containment will be constructed if put back into service)
- An equipment storage yard
- One active septic system (leach field) for office sewage only (Class V injection well)
- 1- 300 gallon steel tank for motor oil and gear oils (picked up by recycler)

All Storage tanks at the facility are above ground storage tanks (AST), and are constructed of either fiberglass or carbon steel.

VI. Materials Stored or Used at the Facility

Table 1 Materials Stored or Used at the Hobbs, NM Facility Lucky Services, Inc.				
Material Stored	General Composition	Solid or Liquid	Container Type	Volume Stored
1. Drilling Fluids				
N/A				
Category 2. Brines.(KCL, NaCl, etc.)				
KCL	Potassium Chloride and Water	Liquid	AST	Out of Service None stored at present
10 lb. Brine	Sodium Chloride and Water	Liquid	AST	Out of Service None stored at present
Category 3. Acids/Caustic				
N/A				
Category 4. Detergents/Soaps				
Rig Wash (Biodegradable)	Non-Ionic Surfactant	Powder	32 gallon cardboard drum	< 200 lbs.
Category 5. Solvents and Degreasers				
Parts Washing Solvent	Light Petroleum Distillates (Naphtha)	Liquid	30 gallon parts-washing drum	< 30 gallons
Category 6. Paraffin Treatment/Emulsion Breakers				
N/A				
Category 7. Biocides				
N/A				
Category 8. Others				
Motor Oil	Solvent refined petroleum hydrocarbons	Liquid	Drums	< 250 gallons
Antifreeze	Ethylene Glycol	Liquid	Drum	< 55 gallons
# 2 Diesel Fuel	Light hydrocarbon distillates	Liquid	AST	< 8000 gallons

#2 Diesel Fuel	Light hydrocarbon distillates	Liquid	AST	< 2000 gallons
Unleaded Gasoline	Light hydrocarbon distillates	Liquid	AST	< 2000 gallons
Clay Stabilizer	Oxyalkylated Nonyl-Phenol	Liquid	Drum	55 gallons*
Corrosion Inhibitor	Petroleum Naptha	Liquid	Drum	55 gallons*

* Volume of 55 gallon drums of these materials varies according to job needs. No more is stored than is needed for immediate use.

The current HAZCOM (Hazard Communication per 29 CFR 1910.1200) inventory is as follows:

Antifreeze
Clay Stabilizer
Corrosion Inhibitor
Diesel Fuel
Gasoline
Grease - Transfer Case and Rear End (90 weight)
Grease - Bearing and Axle
Hydraulic Fluid
Motor Oil (Non-detergent 30 weight)
Motor Oil (15W-40)
Motor Oil (10W-30)
Motor Oil (40 weight)
Rig Wash (Powdered Soap)
Sandline Chemical
Solvent - Parts Washer
Transmission Fluid
Unleaded Gasoline

*Quantities and Material Safety Data Sheets are available for inspection at the Lucky Services, Inc. office during normal office hours.

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

Table 2: Sources and Quantities of Effluent and Waste Solids Generated at the Hobbs, New Mexico Facility - Lucky Services, Inc.			
Category per NMOCD Discharge Plan Guidelines			
Effluent Type	Volume Generated	Additional Constituents	Volume of Additional Constituents
1. Truck Wastes	None	None	None
2. Truck, Tank, and Drum Washing	40 bbls./month	Residues of Soap, Road Grime, from exterior washing only.	10 gallons/month
3. Steam Cleaning of parts, exterior of tanks	10 bbls./month	Residues of Soap, Crude Oil, KCL, from exterior washing only	10 gallons/month
4. Solvent/Degreaser	0.2 gal/month	None	None
5. Spent Acids/Caustics, or Completion fluids	Not applicable	None	None
6. Waste Slop Oil	None	None	None
7. Waste Lubrication and Motor Oils	60 gallons/month	None	None
8. Oil Filters	40 filters/month	None	None
9. Solids and Sludges from Tanks	10 bbls./month	None	None
10. Painting Wastes	Not applicable	None	None
11. Sewage	50 gallons/day	None	None
12. Other Waste Liquids	Not applicable	None	None
13. Other Waste Solids	700 lbs./month	None	None
14. Spent automotive batteries	1/month	Lead, acid	None

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

1. Truck Wastes (Original Contents Trucked) - Not applicable - if any oilfield exempt waste is cleaned from the inside of trucks, it is done offsite at a permitted NMOCD facility.
2. Truck, Tank, and Drum Washing - Exterior washing of vehicles is done onsite. Interior washing of trucks and tanks is done offsite at a permitted NMOCD facility for exempt oilfield waste.
3. Steam Cleaning of Parts, Equipment, or Tanks - All wastes generated by this process are non hazardous waste (see enclosed EPA compliance evaluation inspection analyticals of sump) and are caught in the fiberglass tank connected to the sump for inspection prior to release to the POTW.
4. Solvent and degreaser is only used in a closed system parts washer inside the shop, and reclaimed by a recycler.
5. Spent Acids or Caustics, or Completion Fluids - Not applicable
6. Waste Slop Oil - Not applicable
7. Waste Lubrication and Motor Oils - Waste oil from vehicle maintenance operations performed onsite by Lucky Services personnel is collected and stored in a labeled above-ground storage tank. The tank is located on the wash-bay pad which is effective secondary containment for the entire volume. If a leak develops, the waste will be classified and disposed of according to RCRA and state and federal regulations.
8. Oil Filters - Oil filters are completely drained into the recycle tank and the filters are taken by Waste Management as ordinary industrial waste
9. Solids and Sludges from Tanks - All solids and sludges generated from washing the inside of trucks and tanks is generated offsite at a NMOCD permitted facility.
10. Painting Wastes - All painting done onsite is done by compressor and spray gun. No wastes are generated as a result of this process. Any incidental paint waste is allowed to fully dry and the residue is disposed of as industrial waste in the municipal landfill by Waste Management.

11. Sewage - Domestic sewage from the Lucky Services offices is discharged through the active septic system (Class V injection well) located on the property. No other waste streams are mixed with the sewage.
12. Other Waste Liquids - Not applicable
13. Other Waste Solids - Industrial solid waste consisting of general refuse (office trash, paper, plastic, etc.) Is stored in the waste bin beside the office pending transport and disposal at the municipal landfill by Waste Management.
14. Spent automotive batteries are turned in for recycling at the time of purchase of new batteries.

All Storage tanks at the facility are above ground storage tanks (AST), and are constructed of either fiberglass or carbon steel. The storage tanks are used to store wastes (used oil), production fluids (Brine and KCL water), and fuels (diesel and unleaded gasoline). All tanks are surrounded by secondary containment areas with the exception of the KCL and Brine tanks which are currently out of service. If the KCL and Brine tanks are put back into service at some future date, plans will move ahead to construct secondary containment. Secondary containment for the fuel storage is concrete. Plans are being made to assure that all secondary containment has the capacity to contain 1.33 times the volume of the largest tank. All drains and underground piping are sealed, with access limited to authorized persons when stormwater or washwater must be disposed of. The secondary containment areas of the fuel storage system have been tied into a fiberglass storage tank, and then into the POTW. All effluent from these containment areas will be visually inspected, properly classified and disposed of in the POTW unless inspection indicates that contaminants exist in the water (ie sheen or oil layer on top of tank). If contaminants exist that are not allowed in the POTW, this waste will be properly classified per RCRA and any other federal and state regulations, and properly disposed of.

The wash bay area will be used to wash the exterior of Lucky Services trucks. It has been tied into the POTW system with a fiberglass tank tied into the system to assure that solids and any incidental hydrocarbons will be trapped, classified and disposed of properly. The wash bay will no longer only be used to wash any oil field exempt waste containers (such as the interior of trucks or tanks) and the effluent will meet criteria established by the NMED and the City of Hobbs. Any oilfield exempt waste generated will be washed at an offsite facility (Sundance Services) and the waste disposed of properly there.

The location of the approved and NMOCD permitted disposer of oilfield exempt waste used by Lucky Services, Inc. is:

Sundance Services, Inc.
Parabo Disposal Facility
17 Miles South of Hobbs on NM Highway 18
P.O. Box 1737, Eunice, NM 88231
(505) 394-3480 or (505) 394-2511

IX. Proposed Modifications

1. Lucky Services will berm the existing KCL and Brine tanks per NMOCD guidelines to assure that any leak will not present a danger to the public or to the water supply.
2. Lucky Services will increase the size of the secondary containment to assure that the fuel storage island has adequate secondary containment.

X. Inspection, Maintenance, and Reporting

Chemical and waste storage area facilities are visually inspected routinely (daily) for leaks, corrosion or integrity problems; accumulated liquids in containment areas; improper labeling and storage practices; and open or deteriorated containers. Each storage area (except the KCL and Brine tanks) are enclosed in secondary containment, and isolated from other potential waste streams.

Normal maintenance of the material storage facilities is performed by facility personnel under supervision of the owner, operations manager, and the safety supervisor. Routine maintenance includes inspection of storage areas, remediation of minor spills, and routine maintenance involving the repair of leaking fittings or valves which pose no threat to personnel or the public.

The owner or the safety supervisor will determine which activities can be performed by facility personnel and which need to be contracted out due to the potential hazards involved.

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

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

Emergency Response Plan

In the event a toxic substance release should occur from fires, explosion, or any unplanned sudden, or non-sudden release of a hazardous waste - the **responsible Lucky Services Inc. Employee** at the scene, or the operation, shall take the following actions:

1. Promptly notify his immediate supervisor or any Lucky Services Inc. supervisor, of the release, it's location, and approximately magnitude. It is of the utmost importance that this first notification be given IMMEDIATELY on detection of a release so that notification of other company employees, residents of the area, and the general public may begin evacuation; if warranted by this contingency plan.
2. Promptly render a judgment as to:
 - a) Whether or not any human life or property is in danger.
 - b) The source and cause of the emission.
 - c) Whether or not the toxic substance release can be readily stopped or brought under control without posing a danger to the health of safety of the employee.
3. If any human life or property is in danger, take prompt action to alleviate such danger, to the extent possible.
 - a. If the escape can be readily stopped, or brought under control, the employee should do so.
4. If a reportable quantity of hazardous materials is released, notification will be made to the appropriate agencies (NMOCD District Office, Bureau of Land Management, National Response Center, etc.) within 24 hours pursuant to 29 CFR 1910.120, NMOCD Rule 116, WQCC 1203, or other governing regulations.

Note: Lucky Services Inc., does not expect any employee to place his life or health in jeopardy as result of any action taken under this plan. Action under points 2, 3, and 4, above should be taken in conjunction with another company employee, unless it is clearly evident that such action may be undertaken without risk to the employee. No Lucky Services Inc. employee shall attempt to go on a leak detection mission without first notifying his immediate supervisor, or another company employee of his intentions.

5. All releases of hazardous materials will be cleaned up or remediated according to the appropriate federal, state, and local regulations.

XII. Site Characteristics

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 is 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 (eighteen wells), water depth ranges from 25 feet to 175 feet. The most current analyses available for the nearby water wells maintained by the City of Hobbs are included, as are well logs from the State Engineer's Office in Appendix B. (See **Appendix B**)

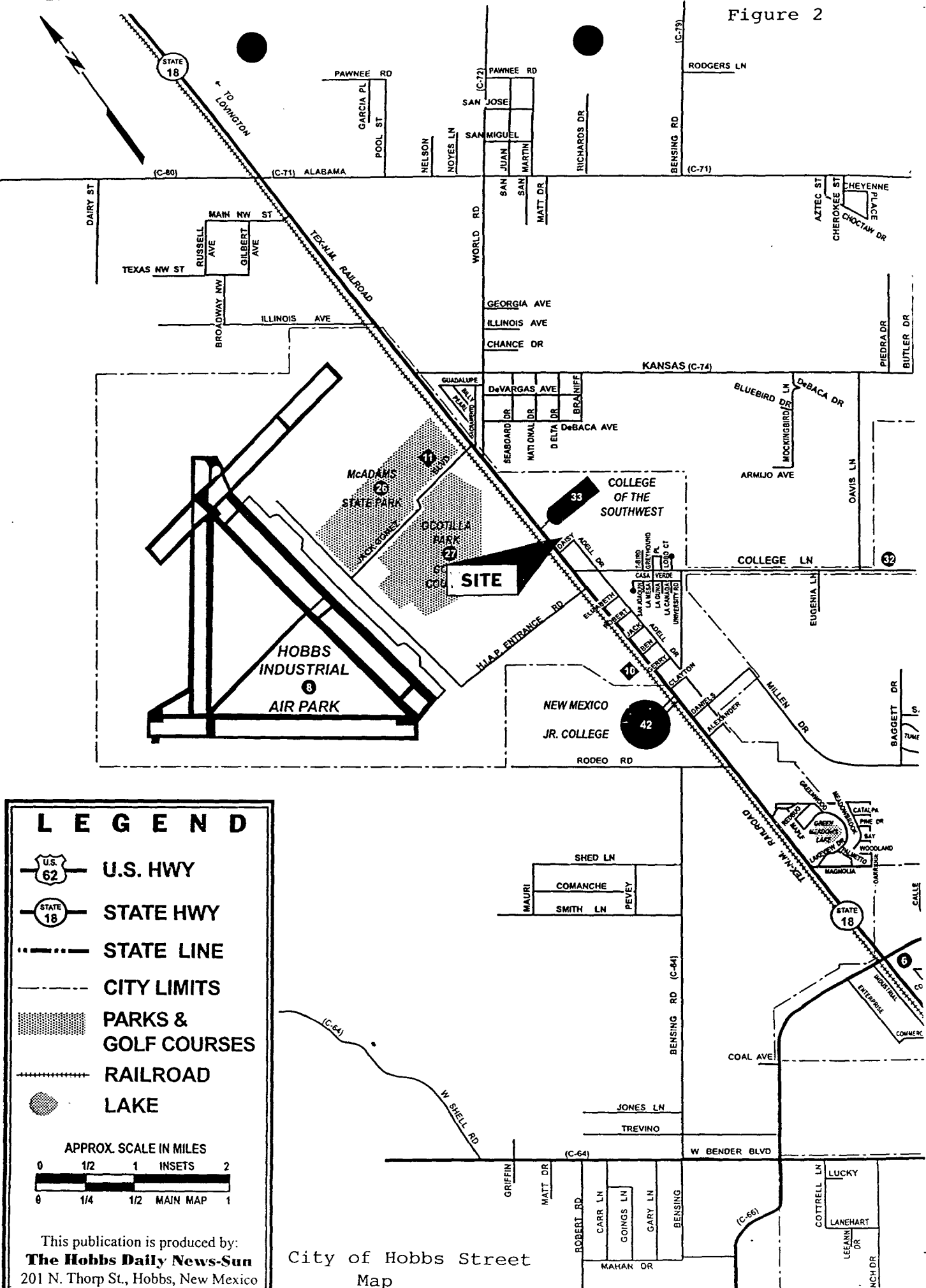
Geologically, the site is in the Kimbrough-Lea complex soil area. This complex is about 60 percent Kimbrough gravelly loam, 25 percent Lea loam, 10 percent inclusions of Stegall and Arvana soils, and 5 percent inclusions of Slaughter and Sharvana soils. In places the Kimbrough and Lea soils are equally distributed. The generally dominant Kimbrough soil is on slightly convex areas or on low knolls. It is very shallow over a thick bed of indurated caliche. The Lea soil has a dark grayish-brown to brown surface layer and a grayish-brown to brown loam subsoil. Indurated caliche is at a depth of 20 to 40 inches. The soils in this complex are used a range, wildlife habitat, and recreational areas. They are also a source of caliche for use in road construction.

XIII. Other Compliance Information

Appendix C is a copy of the recent **EPA Compliance Evaluation Inspection**, and other regulatory correspondence with the NMOCD. Please note in the compliance evaluation inspection that the sump water and the water from the tank trucks in the yard was found by the EPA to be characteristically non-hazardous for ignitability, corrosivity, pH, or TCLP metals.

Appendix A

Figure 2



College of T

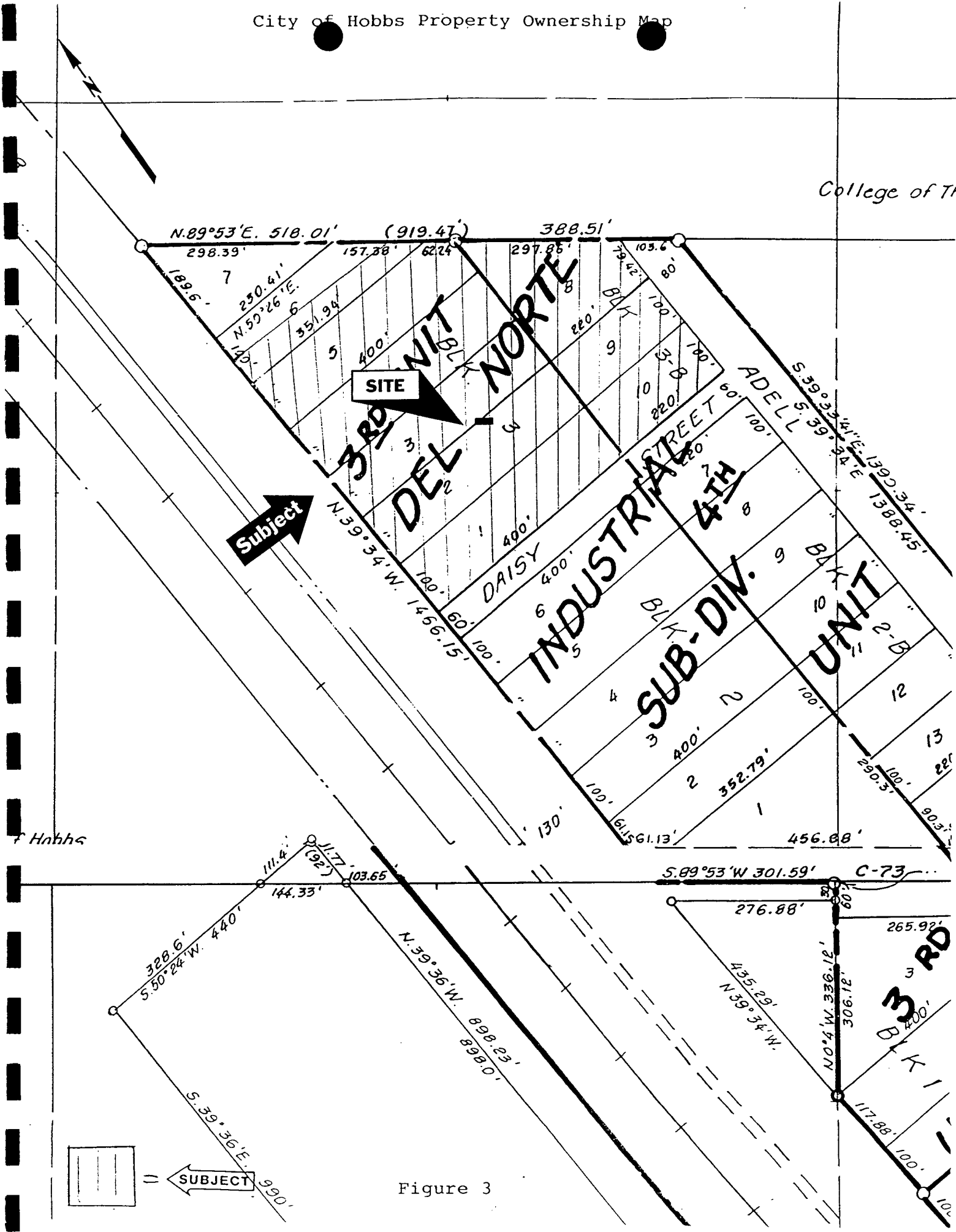


Figure 3

Lovington Highway

Truck Parking

Truck Parking

Office

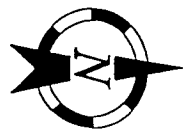
Shop

Sump

Daisy Street

Frac Tank Storage

Trailer Storage



- 1 - Building
- 2 - 2000 gal Unleaded
- 3 - 2000 gal Diesel
- 4 - 8000 gal Diesel
- 5 - Building
- 6 - Pipe Rack
- 7 - Water
- 8 - KCL
- 9 - Brine

1

2

3

4

5

6

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9

Lucky Services Inc.
Site Plan

G210 Lovington Highway
Hobbs, New Mexico 88240
March 14, 1986

BUILDING AREA:
 $40.4 \times 70.5 = 2,848.20$
 $35.4 \times 50.6 = 1,791.24$
4,639.44 sq. ft.

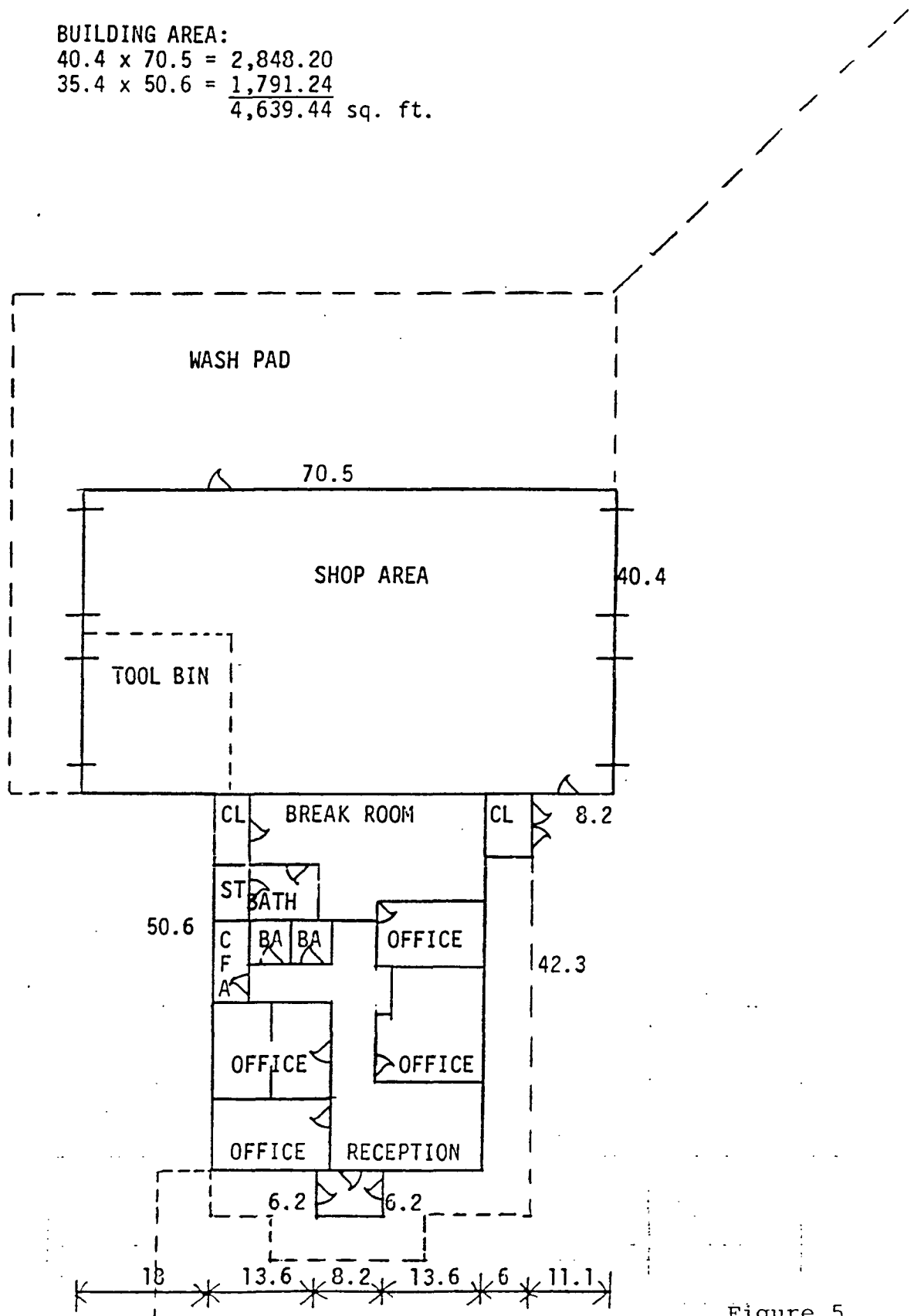
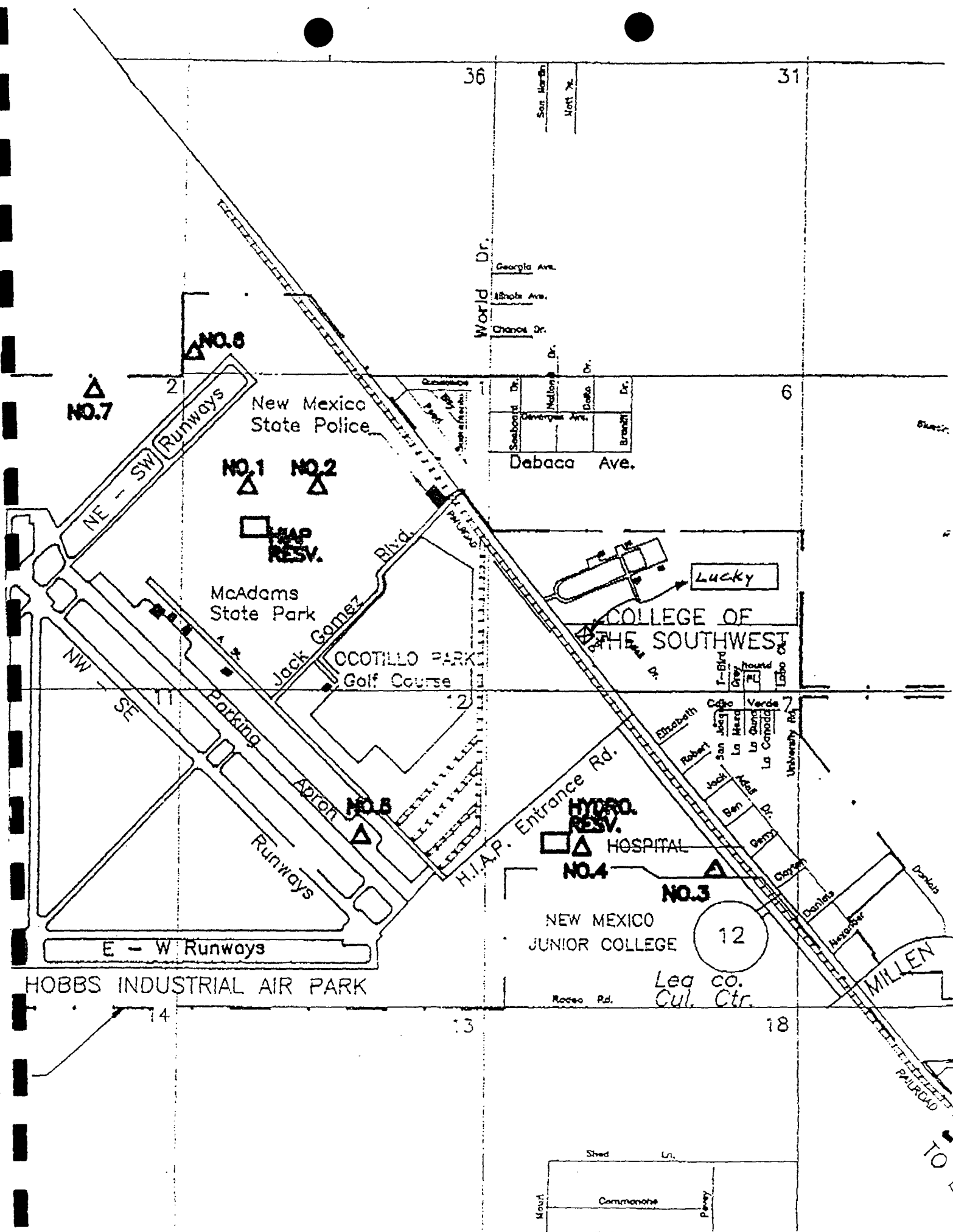


Figure 5

Appendix B



STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 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

ED FIELD OFFICE: ☐

ED Field Office, Hobbs

726 E. Michigan Ave, Suite 165

Hobbs, NM 88240

SLD No.: OR- 9602895

REQUEST ID No.: 168635

RECEIVED AT SLD: 8/22/96

☐ SLD COPY

USER

55000

☐ 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 CHROMATOGRAPHY (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	5
74-97-5	Bromochloromethane		U	0.50	5
75-27-4	Bromodichloromethane*		U	0.50	80
75-25-2	Bromoform*		U	0.50	80
24-83-9	Bromomethane		U	0.50	
78-93-3	2-Butanone (MEK)		U	5.00	
104-51-8	n-Butylbenzene		U	0.50	
135-98-8	sec-Butylbenzene		U	0.50	
98-06-8	tert-Butylbenzene		U	0.50	
1634-04-4	tert-Butyl methyl ether (MTBE)		U	5.00	
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	
67-66-3	Chloroform*		U	0.50	80
74-87-3	Chloromethane		U	0.50	
95-49-8	2-Chlorotoluene		U	0.50	
106-43-4	4-Chlorotoluene		U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	0.50	0.2
124-48-1	Dibromochloromethane*		U	0.50	30
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	0.50	0.05
74-95-3	Dibromomethane		U	0.50	
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		U	0.50	
75-34-3	1,1-Dichloroethane				

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	0.60	
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	6
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	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
RECOVERIES:	2-Bromochlorobenzene (Photoionization Detector Surrogate)	10.28	102.8%
	2-Bromochlorobenzene (Electrolytic Conductivity Detector Surrogate)	9.68	96.9%
LABORATORY FORTIFIED	The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below:		
BLANK	COMPOUND	CONCENTRATION (ug/L)	% RECOVERY
RECOVERIES	Bromoform	10	122
	Dibromochloromethane	10	121
LABORATORY BLANKS	No target compounds were detected above the sample detection limit in laboratory blank with the exception of the compound(s) listed below:		
	COMPOUND	CONCENTRATION (ug/L)	
	No Exceptions		

ANALYST: S. A. Mustafa

QC APPROVED BY:

Ken Sherrell

(9)

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 ($\pm 5 \times \text{SDL}$)
 - 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

STATE ENGINEER OFFICE
WELL RECORD

FIELD 205

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. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 7 Township 18S Range 30E 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 Industrial Sub-division
Subdivision, 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 11/6/73 Completed 11/8/73 Type tools Galle Size of hole 3 1/2 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>70</u>	<u>141</u>		<u>Brown Sand</u>	<u>100</u>

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
<u>7</u>	<u>22</u>	<u>8</u>	<u>0</u>	<u>141</u>	<u>141</u>	<u>None</u>	<u>74</u>	<u>141</u>

Section 4. RECORD OF MUDDING AND CEMENTING

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

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received 11/14/73 Quad _____ FWL _____ FSL _____
File No. L-7115 Use DTC Location No. 18-38-7243

[illegible]

1973 NOV 26 AM 8:07
STATE ENGINEER OFFICE
DISTRICT II
REDFORD, N.J. 070

1973 NOV 14 AM 8:25
STATE ENGINEER OFFICE
DISTRICT II
ROBELL, R. ALX.

Abbott Bros.
Driller Helen Baker

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 4(a) and Section 5 shall be completed.

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
1/4 Sec 34 NE 1/4 of Section 7 Twp. 18S. Rge. 38E.
(B) Drilling Contractor Abbott Prothera License No. 17-46
Street and Number P. O. Box 857
City Hobbs State New Mexico
Drilling was commenced February 23, 19 67
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		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
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		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7	20	A	0	120	120	Open	60	120

Section 4

RECORD OF MUDDING AND CEMENTING

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

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: _____ Cement Plugs were placed as follows:

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received _____

1967 MAR -6 AM 8:31

File No. L-6108 Use OOD Location No. 18.38.7.240

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

LOG OF WELL

[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.

Murrell Abbott, Jr.
Well Driller

STATE ENGINEER OF THE
WELL RECORDFIELD ENGR. LOG
LOG FILED

Section 1. GENERAL INFORMATION

(A) Owner of well DTIS 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. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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.

(B) Drilling Contractor YALUCA DRILLING CO. License No. WD-763

Address 1401 W BENDER HOBBS N.M. 88240

Drilling Began 7.1-78 Completed 7.5.78 Type tools TRYPONE 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>65</u>	<u>100</u>	<u>35</u>	<u>SAND & SANDSTONE</u> <u>pebbles</u>	<u>19</u>

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
<u>5 5/8</u>	<u>91.0</u> <u>160</u>		<u>0</u>	<u>100</u>	<u>20</u>		<u>80</u>	<u>100</u>

Section 4. RECORD OF MUDDING AND CEMENTING

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

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

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

[illegible]

42

STATE ENGINEER OFFICE
TODD, J. R. M.

78 JUL 11 AM 8 30

Stephen Felber
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 need be completed.

FIELD OPER. 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

		Section 7	
		8	

(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 $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
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		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
16	42.05	none	+1'3"	180'	181'3"		61 ft.	171 ft.

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				
0	30	30"	--	3 $\frac{1}{2}$ 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:

Cement Plugs were placed as follows:

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

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received Sept. 11 1967 8:29AM

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

LOG OF WELL

Walco Drilling Co.
By: (s) Larry Haney

Well Driller

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Castle and Wiggzell 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. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>50</u>	<u>100</u>	<u>50</u>	<u>Sand</u>	

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
<u>7</u>	<u>23</u>	<u>10</u>	<u>0</u>	<u>100</u>	<u>100</u>	<u>None</u>	<u>50</u>	<u>100</u>

Section 4. RECORD OF MUDDING AND CEMENTING

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

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

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

[illegible]

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

Murrell Abbott
Driller H.B.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Questions, 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 for a well which is not being drilled, repaired or deepened, it should be so indicated in the title.

WELL RECORD

Date of Receipt.....

Permit No. L-1173Name of permittee, Harry C. HustonStreet or P.O., box 181, City and State, Lovington N.M.1. Well location and description: The shallow well is located in SW $\frac{1}{4}$, SW $\frac{1}{4}$,
(shallow or artesian)SE $\frac{1}{4}$ of Section 6, Township 18S, Range 38E; Elevation of top ofcasing 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, 1951,and completed 8-23, 1951; name of drilling contractor J. E. Burton; Address, Box 42 Hobbs N.M.; Driller's License No. RD14

2. Principal Water-bearing Strata:

	Depth in Feet		Thickness	Description of Water-bearing Formation
	From	To		
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				

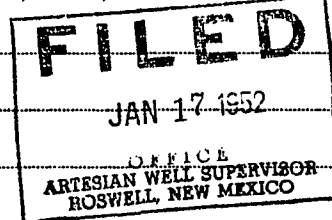
3. Casing Record: None

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

4. If above construction replaces old well to be abandoned, give location:..... $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$

of Section....., Township....., Range.....; name and address of plugging contractor,

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



L-1178

18.28.6.433

FD

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.

Instructions

Licensed Well Driller

STATE ENGINEER OFFICE
WELL RECORD

FIELD BOOK 100

Section 1. GENERAL INFORMATION

(A) Owner of well R. N. Robinson Owner's Well No. 625731
 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. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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. Ddaker W.W. Ser. 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>65</u>	<u>112</u>	<u>47</u>	<u>Water SAND</u>	<u>25 GPM</u>

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
<u>6 5/8</u>			<u>0</u>	<u>112</u>	<u>112</u>	<u>NONE</u>	<u>100</u>	<u>112</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		<u>8</u>			

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

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

[illegible]

STATE ENGINEER OFFICE
JUN 23 AM 8.30
JUN 23 1914

G. D. Baker
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 need be completed.

STATE ENGINEER OF NEW MEXICO

WELL RECORD

FIELD NO. 100

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. $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
58	120	62	Sand	

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
7	23	10	0	120	120	NONE	74	120

Section 4. RECORD OF MUDDING AND CEMENTING

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

[illegible]

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

Murrell Abbott
Driller H.B.

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

WELL RECO

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 DONMELL DRILLING CO.
 Street and Number Box 1308
 City Odessa State Texas
 Well was drilled under Permit No. _____ and is located in the
1/4 NE 1/4 SE 1/4 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

(Plat of 640 acres)

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		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	<u>50</u>	<u>100</u>	<u>50</u>	<u>water sand</u>
2				
3				
4				
5				

Section 3

RECORD OF CASING

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

Section 4

RECORD OF MUDDING AND CEMENTING

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

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: _____ Cement Plugs were placed as follows:

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received SEP 11 1957

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

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

File No. L-3672Use O. W. D.Location No. 18-38-6-420

LOG OF WELL

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.

Wmell Abbott
Well Driller

**STATE ENGINEER OFFICE
WELL RECORD**

FIELD ENGR. LOG

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. $\frac{1}{4}$ $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 12 1/2 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
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		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
10 3/4	34	Welded	0	170	170	NONE	90	170

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 June 22, 1981

Quad _____ FWL _____ FSL _____

File No. L-2790 Use IRR. Location No. 18.38.6.414114

[illegible]

Murrell Abbott
Driller *A.B.*

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 shall be completed.

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 COLLIER OF THE ACQUEDUCT
 Street and Number _____
 City HOUSTON State Texas
 Well was drilled under Permit No. 15584 and is located in the
S 1/4 W 1/4 SE 1/4 of Section 65 Twp. 13 Rge. 39
 (B) Drilling Contractor ADRIAN BECK License No. 2D-46
 Street and Number 401 507
 City HOUSTON State Texas
 Drilling was commenced APRIL 20 1949
 Drilling was completed APRIL 21 1949

(Plat of 640 acres)

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 5.1

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	<u>55</u>	<u>100</u>	<u>65</u>	<u>water sand</u>
2	<u>140</u>	<u>180</u>	<u>40</u>	<u>water sand</u>
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
<u>12 1/4</u>	<u>35</u>	<u>welded</u>	<u>1</u>	<u>200</u>	<u>200</u>	<u>none</u>	<u>141</u>	<u>206</u>

Section 4

RECORD OF MUDDING AND CEMENTING

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

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: _____

Cement Plugs were placed as follows:

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

FOR USE OF STATE ENGINEER ONLY

Date Received 03-18-49 22 1949

Basin Supervisor

File No. L-5294 Use IRR Location No. 18-38-6-41312-1

LOG OF WELL

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 Abbott
Well Driller

STATE ENGINEER OF ILLINOIS

WELL RECORD

100

Section 1. GENERAL INFORMATION

(A) Owner of well Clark 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. $\frac{1}{4}$ ~~SE~~ ^{SE} ~~SW~~ ^{SW} $\frac{1}{4}$ 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 803

Address 201 W. Altamont, N. 5th, 88240

Drilling Began 11-22-78 Completed 11-28-78 Type tools Aruddu 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>62</u>	<u>140</u>	<u>78</u>	<u>Red sand</u>	<u>55</u>

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
<u>6 5/8</u>			<u>0</u>	<u>140</u>	<u>140</u>	<u>Open</u>	<u>120</u>	<u>140</u>

Section 4. RECORD OF MUDDING AND CEMENTING

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

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received August 16, 1979

Quad _____ FWL _____ FSL _____

File No. L-8007 Use DTC Location No. 18.38.6.344134

[illegible]

C. M. Griffin
Driver

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 5 need be completed.

**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. $\frac{1}{4}$ $\frac{1}{4}$ SE $\frac{1}{4}$ SW of Section -7 6 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 C. 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
48	130	72	Water Sand	25 GPM

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
6 5/8			0	130	130	None	120	130

Section 4. RECORD OF MUDDING AND CEMENTING

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

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 March 26, 1982

Quad _____ FWL _____ FSL _____

File No. L-8549

Use DTC

Location No. 18,38,6,344113

[illegible]

MAR 26 8 17 AM '02

STATE ENGINEER
ROSWELL, NM

E. D. Oldaker
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 5 shall be completed.

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 Cleud BreckonStreet and Number star route ACity HobbsState N MWell was Cleaneddrilled under Permit No. L-2453 and is located in theSW 1/4 NW 1/4 NW 1/4 of Section 7 Twp. 18S Rge. 38E(B) Drilling Contractor J F BurtonLicense No. WD14Street and Number Box 42City HobbsState N M.Drilling was commenced May 22-19 58Drilling was completed May 22-19 58Elevation at top of casing in feet above sea level _____ Total depth of well 90State whether well is shallow or artesian shallowDepth to water upon completion no water

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
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		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4

RECORD OF MUDDING AND CEMENTING

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

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: _____

Cement Plugs were placed as follows:

FOR USE OF STATE ENGINEER ONLY

Date Received _____

FILED

MAY 27 1958

OFFICE *P/H*

GROUND WATER SUPERVISOR

ROSWELL, NEW MEXICO

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

File No. L-2453Use DonLocation No. 18.38.711.3

LOG OF WELL

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

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Ron Campbell (Campbell Mobile 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. $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW 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 10 $\frac{1}{2}$ 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 5.8 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			
58	130	72	Water, Sand	25 GPM

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
6 5/8			0	130	130	None	120	130

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		10 $\frac{1}{2}$			

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 March 17, 1982

Quad _____ FWL _____ FSL _____

File No. L-8663

Use DTC

Location No. 18,38.7,122411

[illegible]

Mar 17 6 21 AM '02

STATE ENGINEER
ROSELLE, MI

Ed. Allen
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Golden Sands Mobil Homes Trac 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. $\frac{1}{4}$ $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 7 Township 18-5 Range 35-1 N.M.P.M.

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

c. Lot No. 1-5 of Block No. 9 of the Del Norte Industrial Unit 2
 Subdivision, recorded in _____ County.

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

(B) Drilling Contractor 2 Buds Drilling Co License No. WID 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			
<u>43'</u>	<u>130'</u>	<u>87'</u>	<u>water sand of thin layers of sedimentary rock</u>	<u>50 GPM</u>

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
<u>5 1/2"</u>			<u>1' above</u>	<u>129'</u>	<u>121'</u>	<u>None</u>	<u>79'</u>	<u>119'</u>

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

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
 Temp. NE Cor. _____

[illegible]

STATE ENGINEER
ROSWELL, NM

Oct 8 8 34 AM '81

Chris J. Matheson
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 need be completed.

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. NW 1/4 NW 1/4 NE 1/4 SE 1/4 of Section 12 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
36	65	29	Water Sand	35

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
4 3/4	160psi				65		35	65

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 May 22, 1987

Quad _____ FWL _____ FSL _____

File No. NO FILE NUMBER

Use OBS

Location No. 18.38.7.13133

[illegible]

Alon Tadi
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 are required.

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGINEER LOG

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. $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 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. _____

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

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
<u>6 5/8</u>			<u>0</u>	<u>130</u>	<u>130</u>	<u>none</u>	<u>110</u>	<u>130</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		<u>9</u>			

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

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

[illegible]

STATE ENGINEER OFFICE
FROSWELL, N.M.

79 JUN 13 AM 8 12

L. D. Aldaker
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 need be completed.

Appendix C
(Regulatory Correspondence)

**OIL AND GAS SERVICE INDUSTRY
COMPLIANCE EVALUATION INSPECTION
REPORT**

OF

**LUCKY SERVICES, INC.
HOBBS, NEW MEXICO**

SUBMITTED BY:

**A. T. KEARNEY, INC.
KEARNEY/CENTAUR DIVISION
500 NORTH AKARD STREET, SUITE 4170
DALLAS, TEXAS 75201**

SUBMITTED TO:

**MS. RENA McCLURG
REGIONAL PROJECT OFFICER
U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202-2733**

IN RESPONSE TO:

**EPA CONTRACT NO. 68-W4-0006
WORK ASSIGNMENT NO. R06054**

May 5, 1997

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APPENDIX A

Fi

APPENDIX B

In:

APPENDIX C

R(

APPENDIX D

Sa

APPENDIX E

At

APPENDIX F

Ph

Dwayne:
Sorry this took so long.
If I can answer any questions,
please call, 214-665-2287.
Thanks for your cooperation.
Computers are down, otherwise I
would have sent letter. Greg Pishin.

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DISCLAIMER

This report was prepared for the U.S. Environmental Protection Agency (EPA) Region 6, by A. T. Kearney, Inc., Kearney/Centaur Division, in fulfillment of Contract No. 68-W4-0006, Work Assignment No. R06054. The opinions, findings, and conclusions, expressed herein are those of the contractors and not necessarily those of the EPA or cooperating agencies. Mention of company or product names is not to be considered an endorsement by the EPA.

This document is intended to assist EPA personnel in determining if wastes generated by Oil and Gas Service Industry facilities, are subject to regulation pursuant to 40 CFR 261. The EPA will not necessarily limit enforcement actions or other requirements to those that correspond with the recommendations set forth herein. EPA personnel must exercise their technical judgement in using the CEI report as well as other relevant information, in determining what enforcement or other requirements to include in a permit or an order.

1.0 EXECUTIVE SUMMARY

A. T. Kearney was tasked to support the Environmental Protection Agency (EPA) Region 6, in conducting a Compliance Evaluation Inspection (CEI) and collecting samples at Lucky Services, Inc., in Hobbs, New Mexico, under the RCRA Enforcement, Permitting and Assistance (REPA) Contract No. 68-W4-0006, Work Assignment No. R06054. The inspection was conducted under the authority of Section 3007 of the Resource Conservation and Recovery Act (RCRA), as amended.

The EPA Region 6, RCRA Enforcement Branch, undertook an initiative to gather information on Oil and Gas Service Industry facilities with the ultimate goal of selecting facilities for RCRA Compliance Evaluation Inspections (CEIs) and determining compliance with RCRA regulations. The CEI was conducted to gather enough information to allow RCRA Enforcement personnel to assess the facility compliance with RCRA regulations. The CEI included the collection of waste samples for analysis and reporting of concentration levels of contaminants for corrosivity and ignitability, and in selected instances for the toxicity characteristic leaching procedure (TCLP) for metals. In addition, the visual inspections of facility waste management practices were documented via photographs and field logbooks.

An unannounced RCRA CEI was conducted at Lucky Services, Inc. (Lucky), located at 6210 Lovington Highway, Hobbs, New Mexico, 88240, on November 19, 1996. EPA Region 6 and A.T. Kearney staff participated in the inspection of the facility. During the tour of the facility, the inspection team surveyed the maintenance areas and the property within the facility fence. As part of the tour, the team inspected the vehicle maintenance area, an active drum storage area and a waste drum storage area, a water storage area, two frac tanks, and seven truck tanks.

Based on observed site conditions, samples were collected from three areas: the maintenance area sump, a truck tank, and a vac truck tank. After reviewing information from the Material Safety Data sheets (MSDS) of the materials reported to be contained in the truck tanks and sump, the EPA decided to analyze the material in the two truck tanks for the RCRA hazardous waste characteristics of corrosivity (D002) and ignitability (D001), and the sump material for RCRA hazardous waste characteristics of corrosivity and ignitability as well as TCLP metals. Samples were analyzed by the EPA laboratory in Houston, Texas.

Analytical results did not detect the characteristics of corrosive or ignitable for the samples collected.

2.0 INTRODUCTION

A. T. Kearney was tasked to support the Environmental Protection Agency Region 6, in conducting a Compliance Evaluation Inspection (CEI) and collecting samples at Lucky Services, Inc., located in Hobbs, New Mexico in support of the RCRA Enforcement, Permitting and Assistance (REPA) Contract 68-W4-0006, Work Assignment No. R06054. The inspection was conducted under the authority of Section 3007 of the Resource Conservation and Recovery Act (RCRA), as amended. This narrative report with attachments, presents the results of the inspection.

2.1 Purpose of the CEI

The EPA Region 6, RCRA Enforcement Branch, undertook an initiative to gather information on Oil and Gas Service Industry facilities with the ultimate goal of selecting facilities for RCRA Compliance Evaluations Inspections (CEIs) and determining compliance with RCRA regulations.

A CEI was conducted at Lucky Services, Inc. to gather enough information to allow RCRA Enforcement personnel to assess facility compliance with the RCRA regulations. The CEI included the collection of waste samples for analysis and reporting of levels of concentrations of contaminants for corrosivity (D002), ignitability (D001), and the Toxicity Characteristic Leaching Procedure (TCLP) analysis for metals.

In addition, the visual inspection of the facility waste management practices was documented via photographs and field logbooks. Available regulatory and facility files and records were obtained and reviewed as required to determine regulatory compliance.

2.2 Participants

Lucky Services, Inc. was represented by Mr. Dwayne Taylor, owner and operator. The EPA CEI inspection team consisted of: Mr. Greg Pashia, and Mr. William Rhotenberry, Environmental Protection Agency (EPA), Hazardous Waste Enforcement Branch, Region 6; Mr. Dan Irvin, and Ms. Cathy Dare, A. T. Kearney, Inc.; and Mr. Wallace O'Rear, Metcalf & Eddy, Inc. (M&E). Not all participants were present during all phases of the inspection.

connected to truck engines or cabs were located along the south side of the yard. Two of the tank trucks located along the south side of the yard contained liquids.

Based on the observed site conditions, samples were collected from three areas: the maintenance area sump, a truck tank, and a vac truck tank. After reviewing information from the Material Safety Data sheets (MSDS) of the materials reported to be contained in the truck tanks and sump, the EPA decided to analyze the material in the two truck tanks for the RCRA hazardous waste characteristics of corrosivity (D002) and ignitability (D001), and the sump material for RCRA hazardous waste characteristics of corrosivity and ignitability as well as TCLP metals. The EPA inspectors offered the facility the option to obtain a split sample of each sample collected, and Lucky representatives accepted.

After the sampling activities were completed and Lucky representatives had been provided their split-samples, a close-out meeting was conducted with all team members present. During the closeout meeting, the days activities and findings were summarized by EPA.

3.0 FACILITY DESCRIPTION

3.1 Facility Location and Ownership

Lucky is a privately owned facility and is owned and operated by Mr. Dwayne Taylor. The Lucky facility is located at 6210 Lovington Highway, in Lea County, Hobbs, New Mexico, 88240, telephone number (505) 392-1547 (Figure 1). The facility is located in a rural area with undeveloped land to the north. The Lucky facility consists of a main building that houses the facility offices and equipment and a yard that is enclosed by a fence (Figure 2). Adjacent properties exist to the north, east and west that have been developed for light industrial and commercial activities.

The Lucky facility does not have an EPA generator's identification number.

3.2 Facility Operations and Waste Management Practices

Mr. Rhotenberry requested that Mr. Taylor explain what types of services Lucky provides to the oil and gas industry. Mr. Taylor explained that Lucky primarily supplies fresh water mixed with client specified additives. The additives are placed in the trucks along with fresh water. The mixture is allowed to "slosh" around during transport so that the additive and water mix. Lucky primarily adds corrosion inhibitors, soaps, surfactants, or packer fluid. They also manage antifreeze, motor oil, transmission fluid, and diesel fuel on site to maintain their truck fleet. Any left over water mixtures are transported to an Oil Conservation District (OCD) permitted disposal facility such as Lucky Alliance or another customer specified OCD approved facility. If the materials sold are viscous, Lucky personnel will rinse the trucks out and "supersuck" the materials out of the trucks into the little vac truck for transport to the Lucky Alliance disposal facility in the supersucker little vac truck. Mr. Taylor owns one- third of the Lucky Alliance disposal facility.

Lonestar hauls Lucky's empty 55-gallon drums away for disposal. Any tools used to transport and off-load the materials are washed down at the Lucky facility and the wash water is allowed to drain into the facility machine shop blind outdoor sump. All maintenance area liquids drain into the sump. The maintenance area floor is cleaned twice a week, and the wash water drains into the sump. Lucky also has a soap dispenser for washing the company vehicles, which are cleaned in the maintenance shop. The maintenance shop also contains a parts cleaner and an ice machine. The overflow from the ice machine also drains into the sump. The sump has a capacity of approximately twenty-five, 55- gallon drums.

The Waste Drum Storage Area where empty drums are stored prior to being picked up for disposal is located in the northeast corner of the yard. The drums being stored in the waste drum storage area totaled 27 drums during the inspection. Of these drums, two were labeled

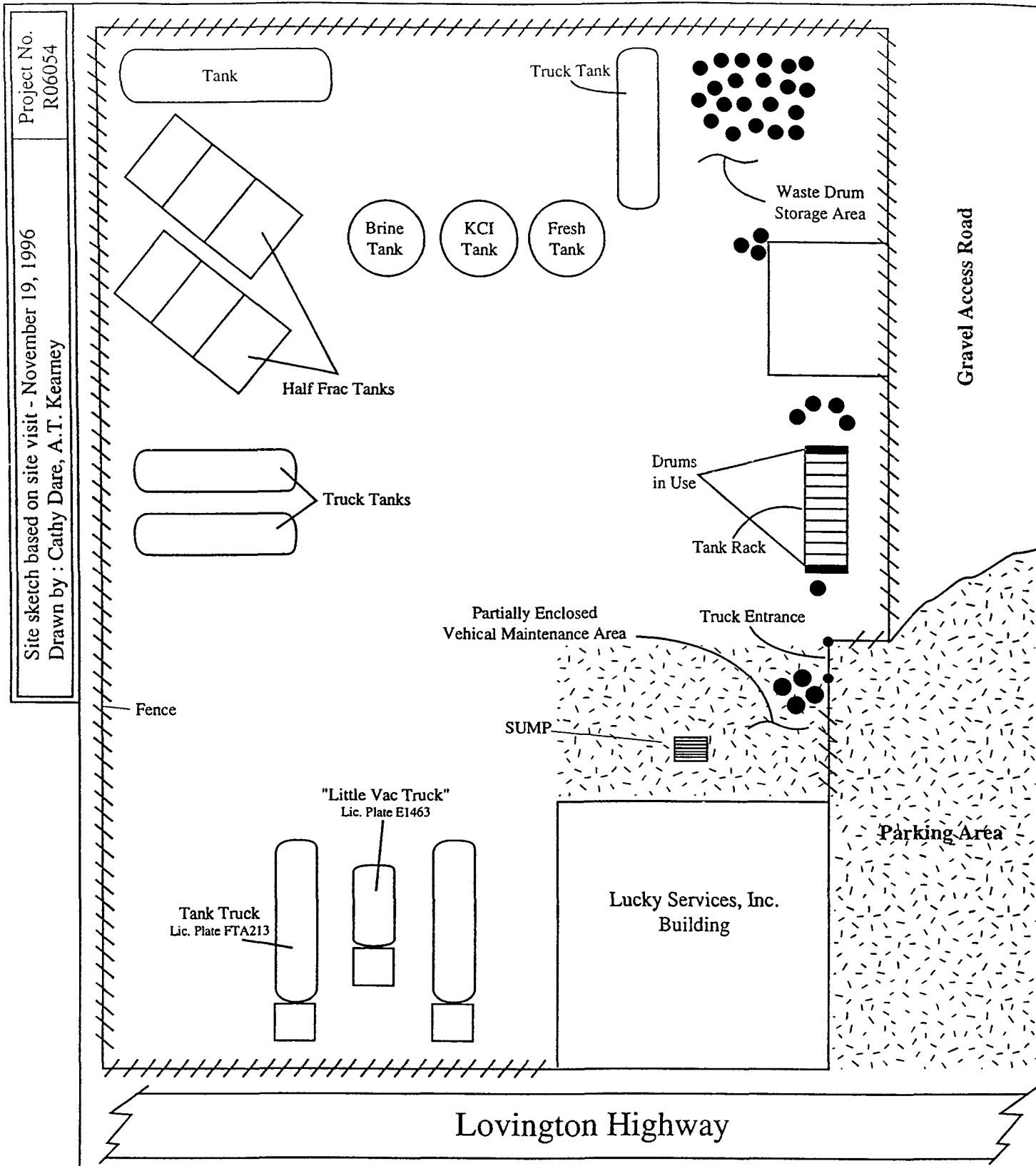


Figure 2
Site Layout Map
Lucky Services, Inc.
Hobbs, New Mexico

Legend:
● 55 Gallon Drum
▨ Asphalt

4.0 SAMPLING ACTIVITIES

Sampling activities were conducted by Ms. Dare and Mr. O'Rear, who were supported by the other members of the EPA inspection team, on November 19, 1996. Sampling locations were determined in the field during the inspection of the facility. The sampling locations were selected and approved, on-site, by Mr. Greg Pashia and Mr. Bill Rhotenberry of the EPA. Samples were collected from the maintenance sump, the tank truck with remaining product, and the little vac truck as shown on Figure 3.

4.1 Sample Description and Locations

On Tuesday, November 19, 1996, the inspection team collected three liquid samples from the Lucky facility. The EPA inspectors offered the facility the option of obtaining split aliquots of the samples collected by the EPA inspection team, and the offer was accepted. Figure 3 shows the location of each sample collected during the inspection. Table 1 provides the sample location, a description of the sampled material, sample identification numbers, sample matrix, and analyses specified for each sample collected from the Lucky facility.

All sampling and analytical procedures were followed as described in the Quality Assurance Project Plan (QAPjP), dated November 15, 1996. A total of three liquid waste samples were collected. Samples were analyzed for ignitability (D001), corrosivity (D002), and TCLP for metals as follows: the trucks were analyzed for ignitability (D001) and corrosivity (D002), and the sump was analyzed for ignitability (D001), corrosivity (D002), and TCLP for metals. Copies of the chain-of-custody records for the sampling event are provided in Appendix C.

QA/QC samples collected included a field blank sample, LS-01-FB-01, a duplicate sample, LS-03-WL-02, and extra volume for MS/MSD analysis (refer to Photograph R₂P₂). All samples were collected directly into analytical glassware, so a rinsate sample was not required. The QA/QC samples were analyzed for ignitability (D001), corrosivity (D002), and TCLP for metals as follows: the MS/MSD extra volume was analyzed for ignitability (D001) and corrosivity (D002), and the duplicated and blank were analyzed for ignitability (D001), corrosivity (D002), and TCLP for metals.

Sample Collection Methods

Samples collected from the tank trucks were collected directly from the discharge valve on the tank trucks into the glassware. Samples were collected by Lucky personnel who were familiar with the operation of the tank trucks. Prior to initiating sampling, the discharge valves on the tank trucks were opened and the lines leading from the truck tanks were flushed prior to initiating sampling, to obtain a more representative sample of the material contained in the trucks. A.T. Kearney and Lucky glassware were filled alternately. During sampling activities, A.T. Kearney conducted organic vapor analysis near the valve opening

of each truck using a Mini Rae Plus, which is a photo ionization detector. Readings were noted during sample collection. Readings were used by the inspection team for monitoring health and safety during sampling activities.

Samples collected from the sump were collected via a clear polyethylene sample container that had the top inch removed. The open top polyethylene container was lowered into the sump via an extendable rod. The polyethylene container was dipped below the surface, retrieved, and the material contained in the polyethylene container was transferred into the appropriate analytical glassware. A.T. Kearney and Lucky glassware were filled alternately. During sampling activities, A.T. Kearney conducted organic vapor analysis at the top of the sump using a Mini Rae Plus. Readings were noted during sample collection. Readings were used by the inspection team for monitoring health and safety during sampling activities.

Sample Collection Procedures

The first sample, LS-01-WL-01, was collected from the tanker truck with the license plate FTA213. The material sampled was a light golden colored liquid that was cloudy and appeared to contain suspended solids (refer to Photographs R₁P₂₂ and R₁P₂₃). Matrix spike and matrix spike duplicate (MS/MSD) sample volume was collected with sample LS-01-WL-01. The second sample, LS-02-WL-01, was collected from the vacuum tanker truck with license plate E1463. The material sampled was a dark liquid and appeared to be oily in nature (refer to Photographs R₁P₂₄ and R₁P₂₅).

The third sample, LS-03-WL-01, was collected from the sump. The material sampled was a clear liquid with black suspended solids that appeared to contain oily material. Sample LS-03-WL-02 was collected as a blind duplicate of sample LS-03-WL-01 (refer to Photograph R₂P₁). The field blank, LS-01-FB-01, was collected near the sump.

All samples collected were properly custody sealed, and tagged, and placed in a cooler. The samples were wrapped in bubble wrap, placed in sealing plastic bags, and packed in appropriate DOT shipping containers. Multiple DOT shipping containers were packed in an overpack container for shipping. The field blank was handled according to the same procedure, but was maintained on ice to a temperature below 4°C. The chain-of-custody paperwork was placed in a clear plastic bag and taped to the inside of the shipping container/overpack. Copies of the chain-of-custody forms can be found in Appendix C. The overpacks were then sealed with strapping tape and a custody seal was placed on the overpack and covered with clear tape. The samples were shipped overnight, via Federal Express, to the EPA Laboratory in Houston, Texas for chemical analysis (refer to Photograph R₂P₃).

TABLE 2
Sample Analytical Results

Sample ID Number/ Laboratory ID Number	Analysis	Compound	Reg Limit*	Concentration/ Results
LS-01-WL-01 7GDXER01-08	Ignitability	Ignitability	Positive	Negative
	PH	Corrosivity	≤ 2 or ≥ 12.5	7.0
LS-02-WL-01 7GDXER01-09	Ignitability	Ignitability	Positive	Negative
	PH	Corrosivity	≤ 2 or ≥ 12.5	6.8
LS-03-WL-01 7GDXER01-13	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.120 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-01-FB-01 7GDXER01-17	TCLP Metals	arsenic	5.0 mg/l	NA
		barium	100.0 mg/l	.060 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-03-WL-02 7GDXER01-14	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.140 mg/l
	Ignitability	Ignitability	Positive	Negative

* Regulatory limits are based on 40CFR 261.24(b)

5.0 OBSERVATIONS

5.1 Records Inspections

During the CEI at the Lucky facility, a records review was conducted. Material Safety Data Sheets (MSDSs) were obtained for CI-410 Corrosion Inhibitor; Ashland Permanent Antifreeze; Clay Stabilizer (Liquid KCl); Essentialube with LP-1000 (fuel additive); F-20 Biodegradable Soap (rig soap); Lacquer Thinners and Cleaning Solvents; Methanol; Metal Treatments; Lacquer Remover; Paint Remover; Cleaning Liquid (rig soap); Cleaning Compounds (rig soap); Peat Sorb Oil Absorbent; Chevron Torque Fluid; Chevron Ultra-Duty Grease EP NLGI 2; Chevron Automatic Transmission Fluid (Dextron II); Mobil Regular 30; Chevron Delo 400 Multigrade SAE 15W-40; and Chevron Delo SAE 40 (see Appendix E). A site facility map was not available from the facility.

The exit briefing was led by Mr. Rhotenberry and Mr. Pashia. In attendance were Mr. Taylor and the rest of the inspection team. Mr. Rhotenberry informed Mr. Taylor that a copy of the inspection report and the analytical data could be made available to Lucky in forty-five to sixty days.

5.2 Visual Observations

A visual inspection of the Lucky site was conducted on November 19, 1996. The facility tour was provided by Mr. Dwayne Taylor, owner and operator of Lucky Services, Inc. The inspection team toured the entire fenced facility. During the inspection, two areas of concern were identified. The areas of concern are discussed below.

Tank Trucks

The facility has several tank trucks that they use to transport their products to the drilling sites. The tank trucks are of various sizes. During the inspection, two of the trucks contained materials. Mr. Taylor informed the inspection team that the vacuum truck contained material removed from the on-site maintenance sump, and that the second truck tank contained unused product that was to be returned to the drilling site at a later date.

Maintenance Sump

The outside vehicle maintenance area had a blind sump that received wash water from the trucks as well as equipment used to at client sites. Due to the unknown nature of these materials and the lack of information on the characteristics of the sump material, samples of the material in the sump were collected to determine if the materials were hazardous.

6.0 SUMMARY OF FINDINGS

On Tuesday, November 19, 1996, an unannounced RCRA CEI was performed by A. T. Kearney, Inc. at Lucky Services, Inc. at 6210 Lovington Highway, in Hobbs, Lea County, New Mexico, 88240. Sampling was also conducted as part of the inspection. The sampling and inspection were conducted under the RCRA REPA Contract 68-W4-0006, Work Assignment R06054 under the authority of Section 3007 of the RCRA, as amended.

Findings

A total of three samples were collected from the tank trucks and sump from the facility. Samples were analyzed for either ignitability, corrosivity, pH, or TCLP metals. The analytical results do not show that any of the materials sampled are characteristic hazardous wastes.

7.0 REFERENCES

Code of Federal Regulations, Parts 260 through 299, revised July 1, 1995.

APPENDIX A

Field Log

APPENDIX B

Inspection Derived Documents

LIST OF DOCUMENTS

1. Material Safety Data Sheet for CI-410 Corrosion Inhibitor, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
2. Material Safety Data Sheet for Ashland Permanent Antifreeze, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
3. Material Safety Data Sheet for Clay Stabilizer (Liquid KCl), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
4. Material Safety Data Sheet for Essentialube with LP-1000 (fuel additive), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
5. Material Safety Data Sheet for F-20 Biodegradable Soap (rig soap), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
6. Material Safety Data Sheet for Lacquer Thinners and Cleaning Solvents, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
7. Material Safety Data Sheet for Methanol, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
8. Material Safety Data Sheet for Metal Treatments, Lacquer Remover, Paint Remover, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
9. Material Safety Data Sheet for Cleaning Liquid (rig soap), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
10. Material Safety Data Sheet for Cleaning Compounds (rig soap), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
11. Material Safety Data Sheet for Peat Sorb Oil Absorbent, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
12. Material Safety Data Sheet for Chevron Torque Fluid, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
13. Material Safety Data Sheet for Chevron Ultra-Duty Grease EP NLGI 2, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
14. Material Safety Data Sheet for Chevron Automatic Transmission Fluid (Dextron II), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
15. Material Safety Data Sheet for Mobil Regular 30, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
16. Material Safety Data Sheet for Chevron Delo 400 Multigrade SAE 15W-40, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
17. Material Safety Data Sheet for Chevron Delo SAE 40, provided to A. T. Kearney by Lucky Services, Inc. on November 19, 1996.

APPENDIX C

Sample Chain-of-Custody Forms

Region 6

OFFICIAL

REGION 6

1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

SENT BY _____

4-3-97; 12:00 PM

1010164740101

[illegible]

[illegible]

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files;
Green to Report; Yellow Returns with Warrant

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files;
Green to Report; Yellow Returns with Warrant

6- 2148

Region 6

OFFICIAL CHAIN OF CUSTODY RECORD

REGION 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

[illegible]

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files;
Green to Report; Yellow Returns with Warrant

Q. 71 10

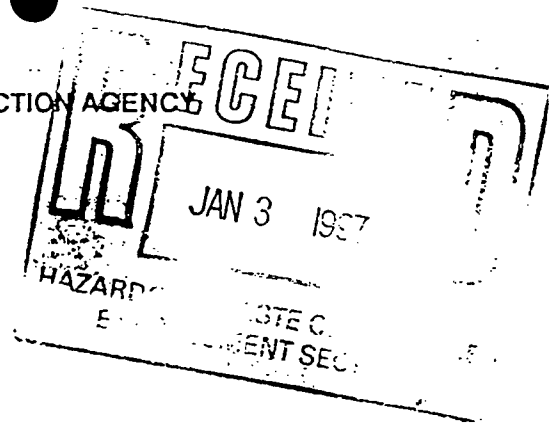
APPENDIX D

Analytical Data



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099
December 30, 1996



MEMORANDUM

SUBJECT: Region 6 Environmental Laboratory Results for the New Mexico Oil Service Company Initiative

FROM: *David Stoltz*
Douglast Lipka, Chief (6MD-H)
Houston Laboratory
Management Division

TO: Desi Crouther, Chief (6EN-H)
Hazardous Waste Enforcement Branch
Enforcement and Compliance Assurance Division

ATTN: Bill Rhotenberry (6EN-HX)

Attached are the laboratory results for samples submitted from the New Mexico Oil Service Company Initiative project. Twenty-three samples were submitted to the Laboratory on November 21-22, 1996. The laboratory numbers assigned to these samples are 7GDXER01-01 through 7GDXER01-23.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of these samples. The results apply only to the sample tested. This final report should only be reproduced in full.

Attachments

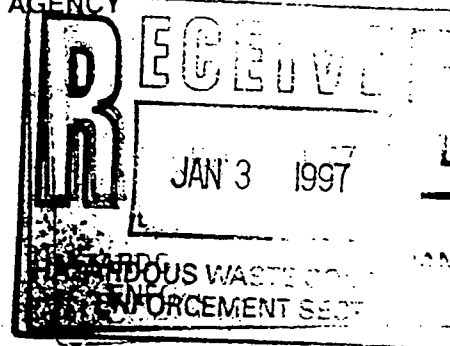


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contains at least 50% recycled fiber



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

December 30, 1996



MEMORANDUM

SUBJECT: Notice of Intent to Dispose of Samples
Douglas Lipka for
FROM: Douglas Lipka, Chief (6MD-H)
Houston Laboratory
Management Division
TO: Desi Crouther, Chief (6EN-H)
Hazardous Waste Enforcement Branch
Enforcement and Compliance Assurance Division

The Houston Laboratory is required to dispose of all hazardous wastes we generate in a manner consistent with RCRA regulations. This includes all samples received for analysis provided we find them to contain contaminants which classify them as RCRA hazardous wastes. In addition, any samples found to contain PCBs must be disposed of according to TSCA regulations.

I have included this memorandum in the final analytical report to serve as notice to the program that we have completed all analysis. If we have any of the original sample remaining after analysis is complete we will dispose of it within 90 days. Please note that even though original sample may be left over, it does not mean that a reanalysis of the sample may be requested since the sample has most likely exceeded its holding time and any subsequent analysis may not be valid.

If you have a need to hold these samples in custody longer than 90 days, please sign below and return this memorandum to me within the next 30 days. Also, state briefly your need to hold these samples in custody.

Thank you for your cooperation in this request.

Facility Name	NEW MEXICO OIL SERVICE COMPANY INITIATIVE (7GDXER01)	
Program Manager (signature)		Date:
Justification for holding samples		



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U.S. EPA - REGION 6 ENVIRONMENTAL LABORATORY
HOUSTON, TEXAS

FINAL REPORT

DECEMBER 30, 1996

SITE NAME: NEW MEXICO OIL SERVICE COMPANY INITIATIVE

DATES RECEIVED: NOVEMBER 21-22, 1996

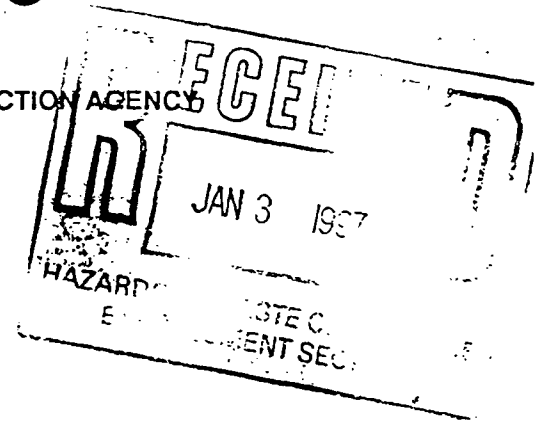
LABORATORY NUMBER	STATION ID	DATE/TIME COLLECTED	RESULTS		
			IGNITABILITY ¹	pH ²	TCLP METALS
7GDXER01-01	MI-01 WL-01	11/19/96,0820	POSITIVE	6.4	NOT REQUESTED
7GDXER01-02	MI-02 WL-01	11/19/96,0840	NEGATIVE	5.8	NOT REQUESTED
7GDXER01-03	MI-02 WL-02	11/19/96,0840	NEGATIVE	7.6	NOT REQUESTED
7GDXER01-04	MI-06 WL-01	11/19/96,0940	NEGATIVE	< 1.0	NOT REQUESTED
7GDXER01-05	MI-07 WL-01	11/19/96,0950	NEGATIVE	9.7	NOT REQUESTED
7GDXER01-06	MI-08 WL-01	11/19/96,0905	POSITIVE	8.2	NOT REQUESTED
7GDXER01-07	MI-09 WL-01	11/19/96,1000	NEGATIVE	4.4	NOT REQUESTED
7GDXER01-08	LS-01 WL-01	11/19/96,1640	NEGATIVE	7.0	NOT REQUESTED
7GDXER01-09	LS-02 WL-01	11/19/96,1647	NEGATIVE	6.8	NOT REQUESTED
7GDXER01-10	MI-03 WL-01	11/19/96,0855	NEGATIVE	9.5	NOT REQUESTED
7GDXER01-11	MI-04 WL-01	11/19/96,0930	NEGATIVE	6.7	NOT REQUESTED
7GDXER01-12	MI-05 WL-01	11/19/96,0955	NEGATIVE	10.1	NOT REQUESTED
7GDXER01-13	LS-03 WL-01	11/19/96,1655	NEGATIVE	7.1	SEE ATTACHMENT 2
7GDXER01-14	LS-03 WL-02	11/19/96,1655	NEGATIVE	6.9	SEE ATTACHMENT 2
7GDXER01-15	MI-01 EB-01	11/19/96,0737	NEGATIVE	6.4	NOT REQUESTED
7GDXER01-16	MI-01 FB-01	11/19/96,0732	NEGATIVE	5.9	NOT REQUESTED
7GDXER01-17	LS-01 FB-01	11/19/96,1713	NEGATIVE	5.8	SEE ATTACHMENT 2
7GDXER01-18	KS-01-WL-01	11/21/96,1315	NEGATIVE	4.5	NOT REQUESTED
7GDXER01-19	KS-01-WL-02	11/21/96,1315	NEGATIVE	4.5	NOT REQUESTED
7GDXER01-20	KS-02-WL-01	11/21/96,1250	NEGATIVE	6.3	NOT REQUESTED
7GDXER01-21	KS-02-WL-02	11/21/96,1250	NEGATIVE	6.4	NOT REQUESTED
7GDXER01-22	KS-01-FB-01	11/21/96,1155	NEGATIVE	5.6	NOT REQUESTED
7GDXER01-23	KS-01-EB-01	11/21/96,1210	NEGATIVE	5.8	NOT REQUESTED

1 SETA FLASH METHOD 1020A

2 AQUEOUS SAMPLES METHOD REFERENCE 9040B, NON-AQUEOUS SAMPLES METHOD REFERENCE 9045C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099
December 30, 1996



MEMORANDUM

SUBJECT: Region 6 Environmental Laboratory Results for the New Mexico
Oil Service Company Initiative,
Opinion Stated for
FROM: Douglas Lipka, Chief (6MD-H)
Houston Laboratory
Management Division
TO: Desi Crouther, Chief (6EN-H)
Hazardous Waste Enforcement Branch
Enforcement and Compliance Assurance Division
ATTN: Bill Rhotenberry (6EN-HX)

Attached are the laboratory results for samples submitted from the New Mexico Oil Service Company Initiative project. Twenty-three samples were submitted to the Laboratory on November 21-22, 1996. The laboratory numbers assigned to these samples are 7GDXER01-01 through 7GDXER01-23.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of these samples. The results apply only to the sample tested. This final report should only be reproduced in full.

Attachments



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US EPA HOUSTON BRANCH

SAMPLE #: 7GBXER01-13 DATE
SOURCE: NEW MEXICO OIL SERVICE RECEIVED: 21-Nov-96
 COMPANY INITIATIVE
TYPE: AQ TCLP DATE
ANALYSTS: RC, LC, BS REPORTED: 19-Dec-96

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	0.004	0.003	MG/L
BARIUM	0.12	0.01	MG/L
CADMIUM	ND	0.005	MG/L
CHROMIUM	ND	0.01	MG/L
LEAD	ND	0.03	MG/L
MERCURY	ND	0.0002	MG/L
SELENIUM	ND	0.003	MG/L
SILVER	ND	0.01	MG/L

ND: LESS THAN DETECTION LIMIT

US EPA HOUSTON BRANCH

SAMPLE #: 7GBXER01-14 DATE
SOURCE: NEW MEXICO OIL SERVICE RECEIVED: 21-Nov-96
COMPANY INITIATIVE
TYPE: AQ TCLP DATE
ANALYSTS: RC, LC, BS REPORTED: 19-Dec-96

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	0.004	0.003	MG/L
BARIUM	0.14	0.01	MG/L
CADMIUM	ND	0.005	MG/L
CHROMIUM	ND	0.01	MG/L
LEAD	ND	0.03	MG/L
MERCURY	ND	0.0002	MG/L
SELENIUM	ND	0.003	MG/L
SILVER	ND	0.01	MG/L

ND: LESS THAN DETECTION LIMIT

US EPA HOUSTON BRANCH

SAMPLE #:	7GBXER01-17	DATE	
SOURCE:	NEW MEXICO OIL SERVICE	RECEIVED:	21-Nov-96
	COMPANY INITIATIVE		
TYPE:	AQ TCLP	DATE	
ANALYSTS:	RC, LC, BS	REPORTED:	19-Dec-96

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	ND	0.003	MG/L
BARIUM	0.06	0.01	MG/L
CADMIUM	ND	0.005	MG/L
CHROMIUM	ND	0.01	MG/L
LEAD	ND	0.03	MG/L
MERCURY	ND	0.0002	MG/L
SELENIUM	ND	0.003	MG/L
SILVER	ND	0.01	MG/L

ND: LESS THAN DETECTION LIMIT

APPENDIX E

Photograph Documentation



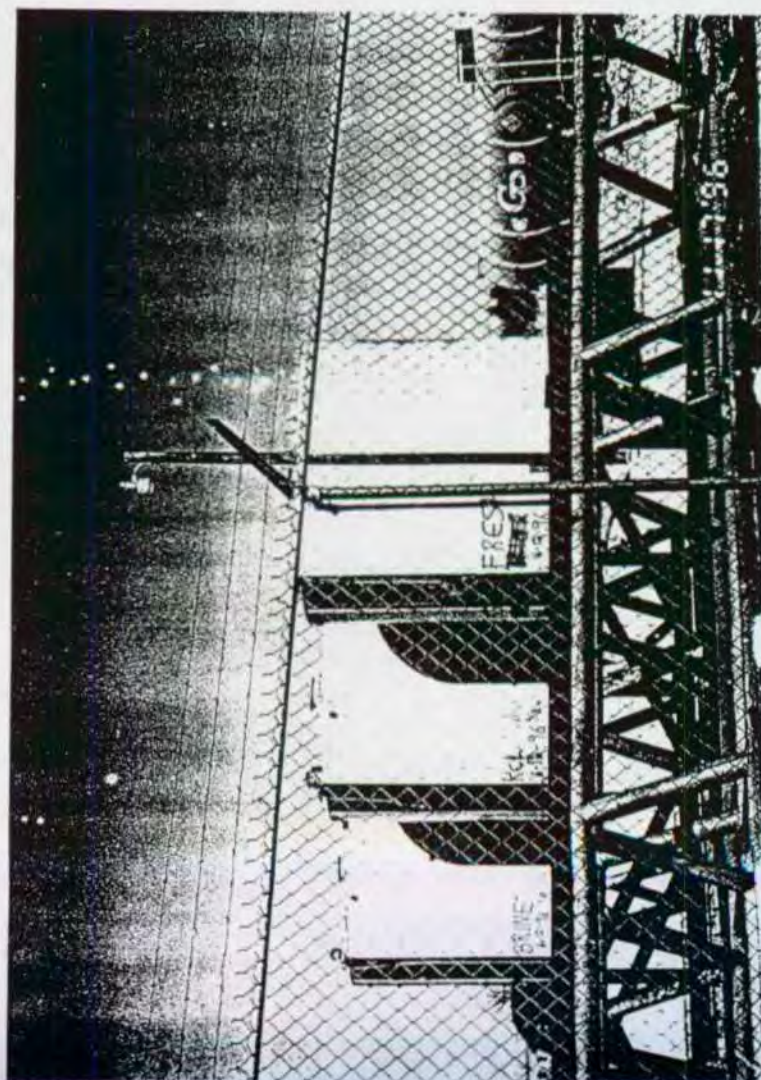
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Received OCD 1-12-98

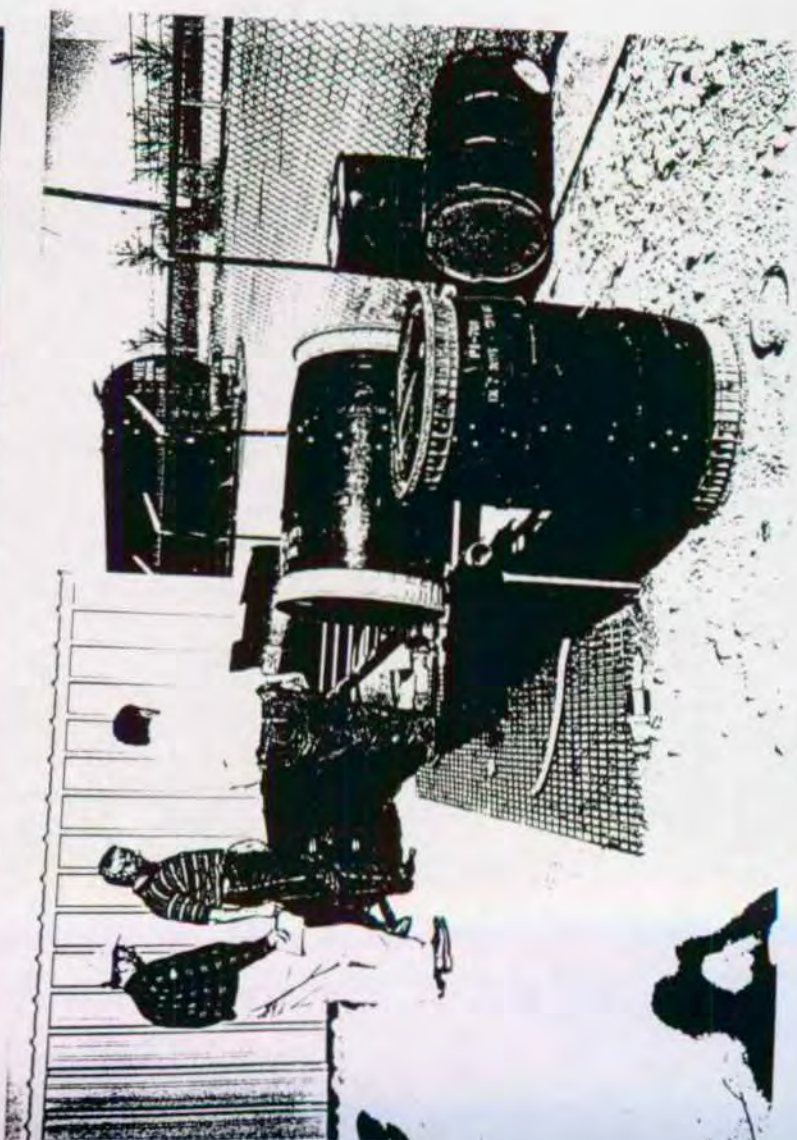
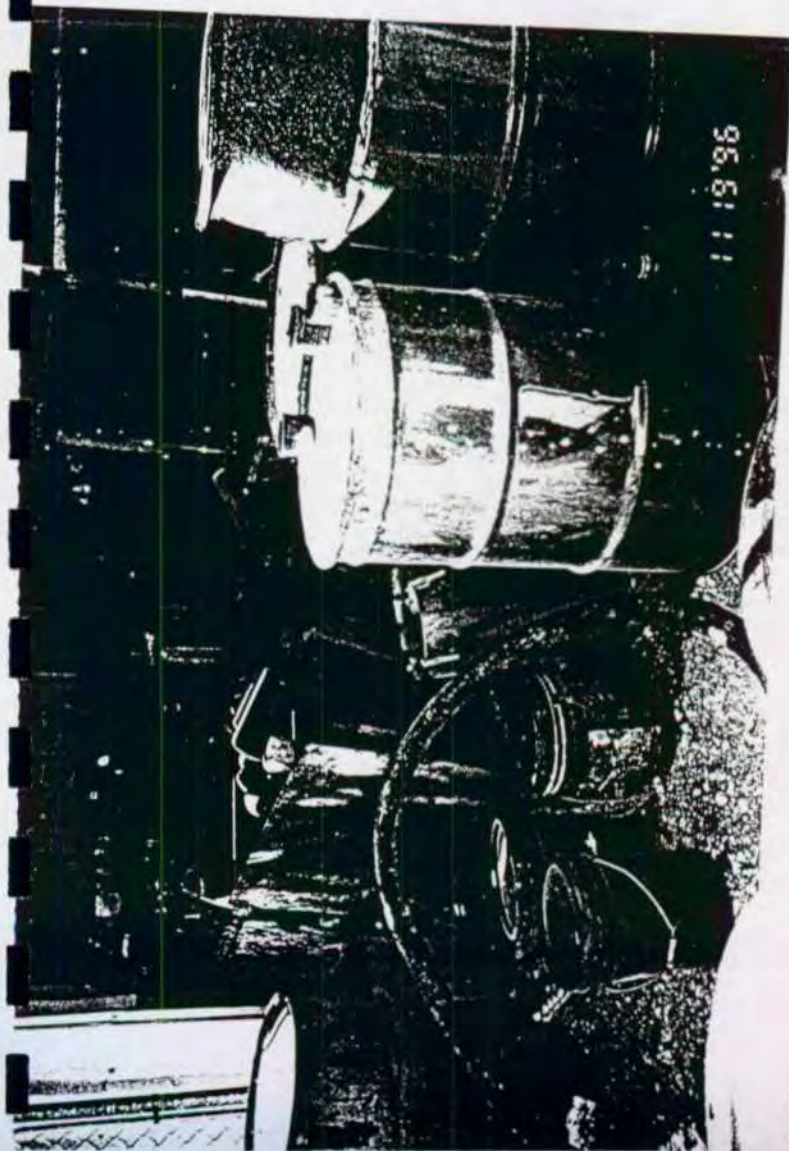
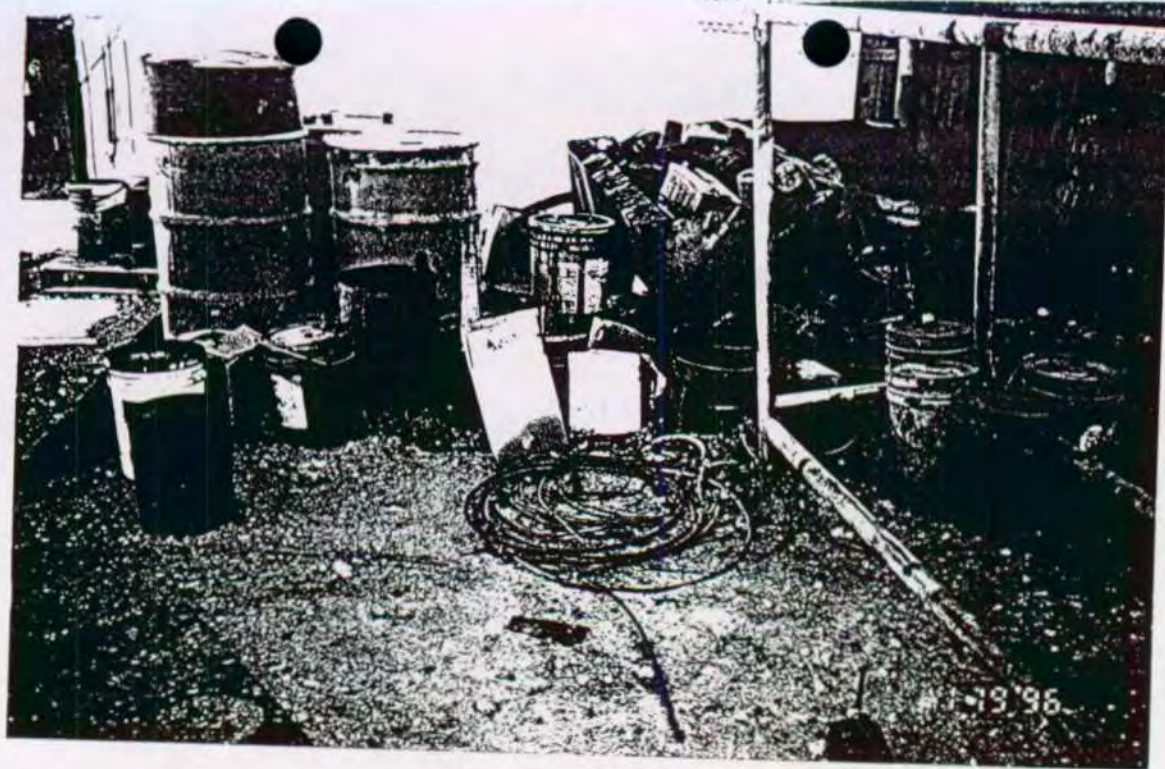


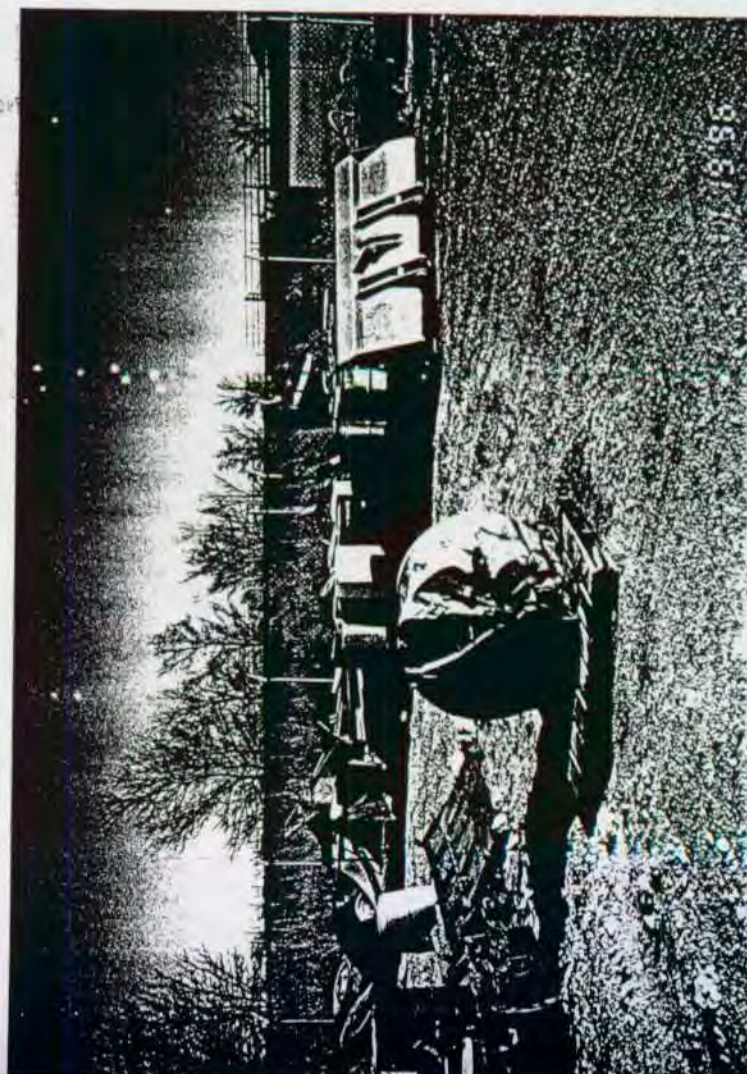
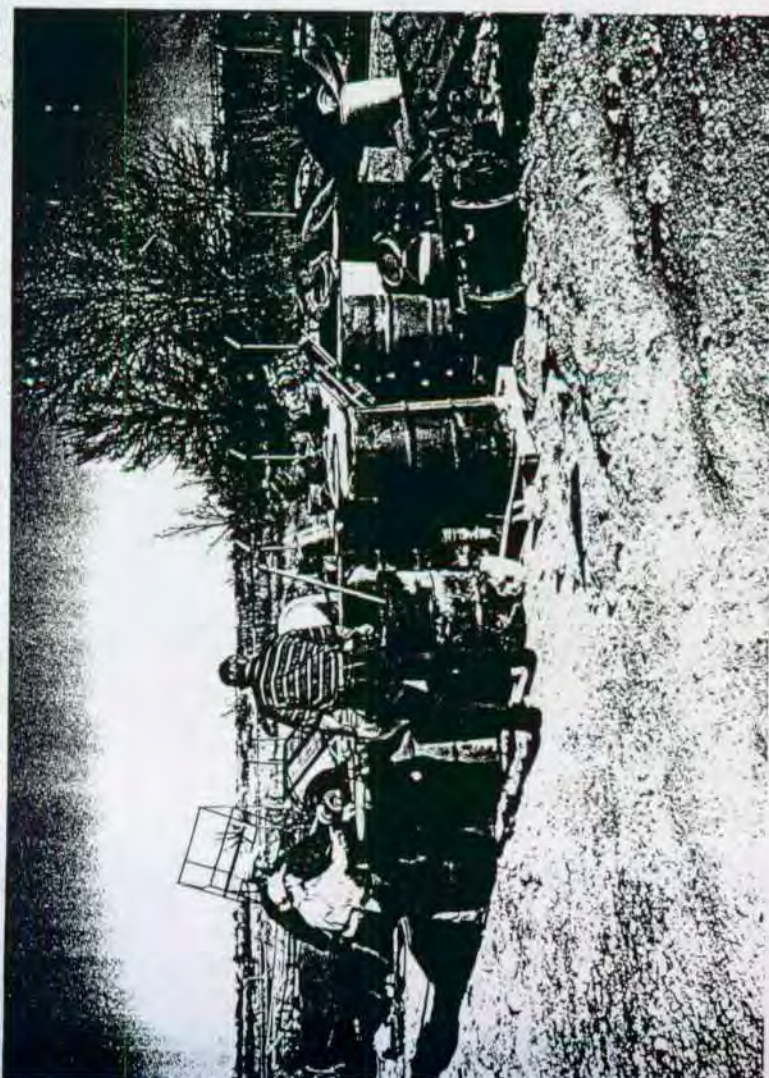
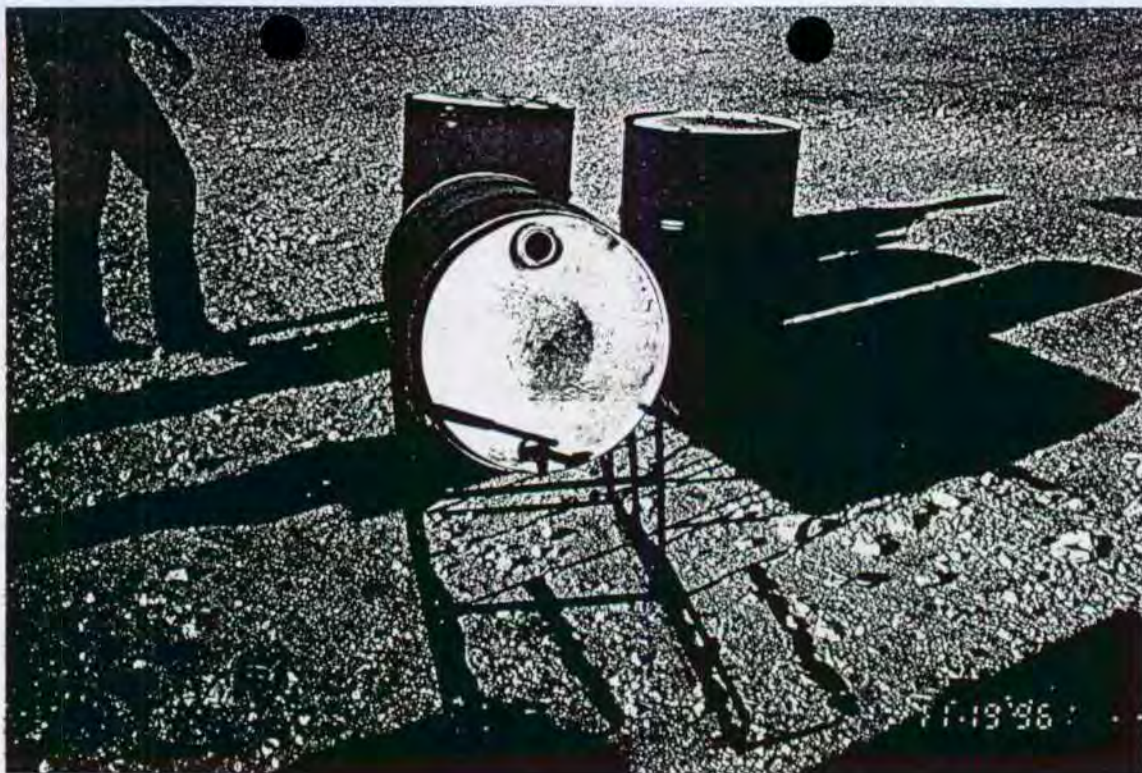
See letter to OGD dated 1-9-98

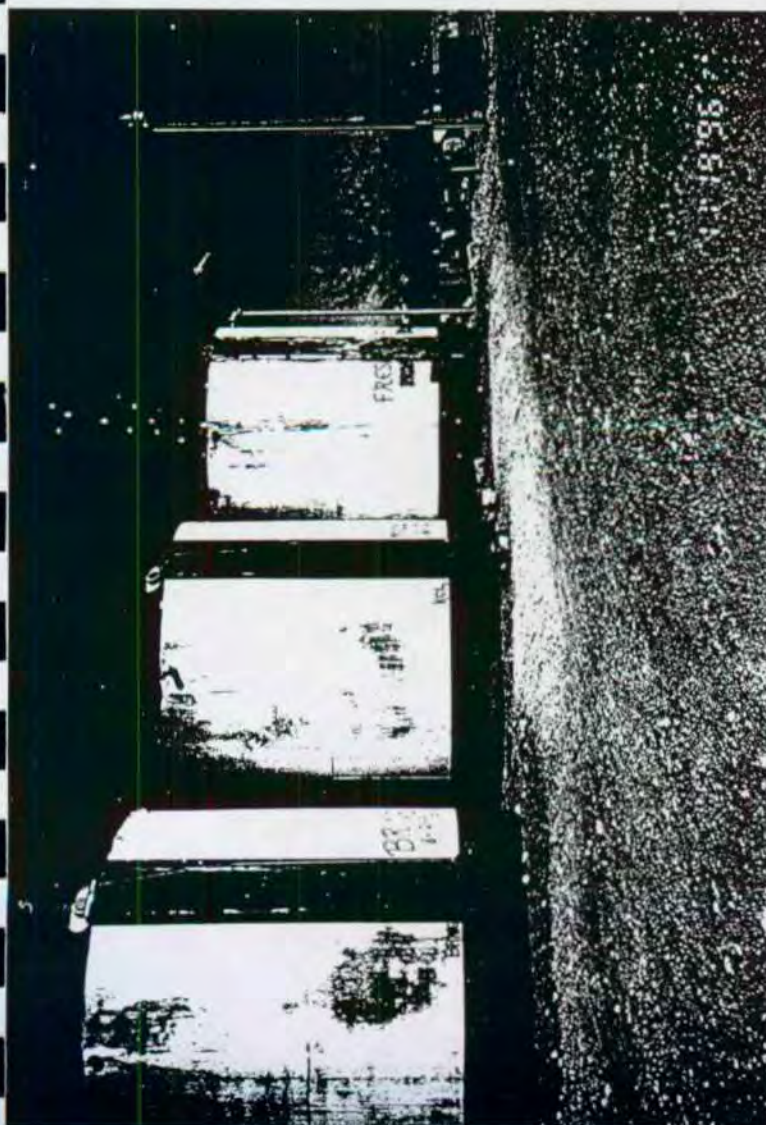
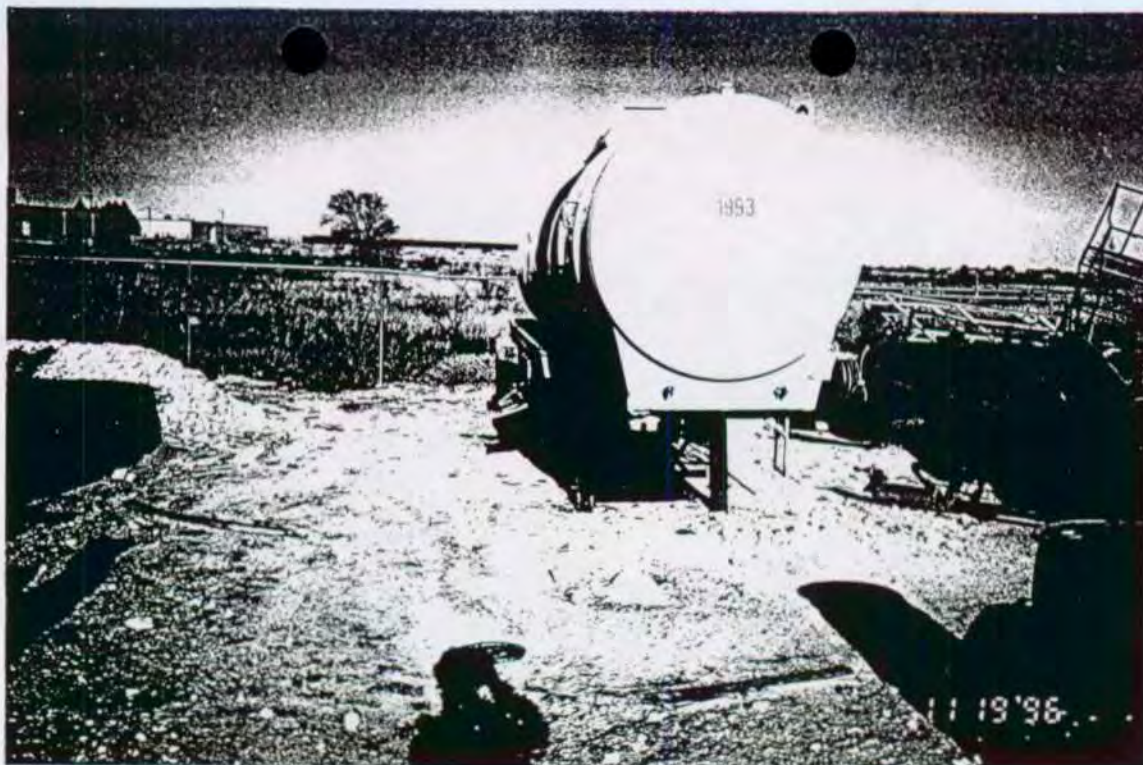
Received OGD 1-12-98

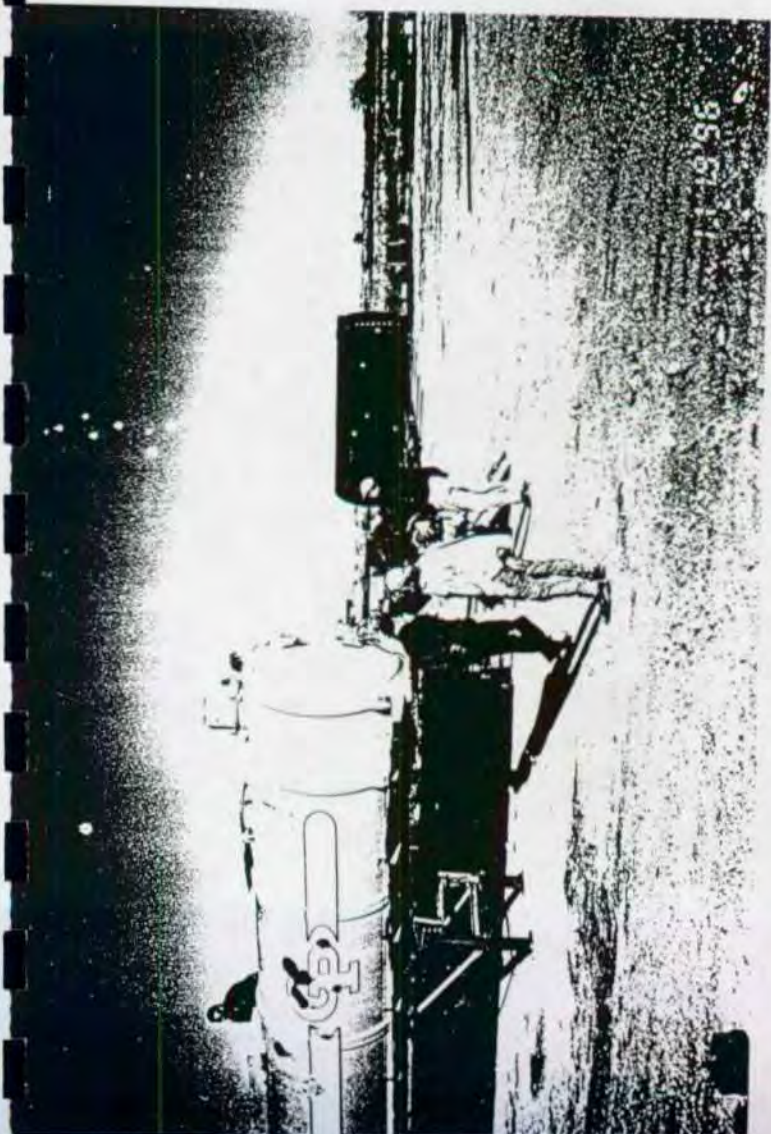
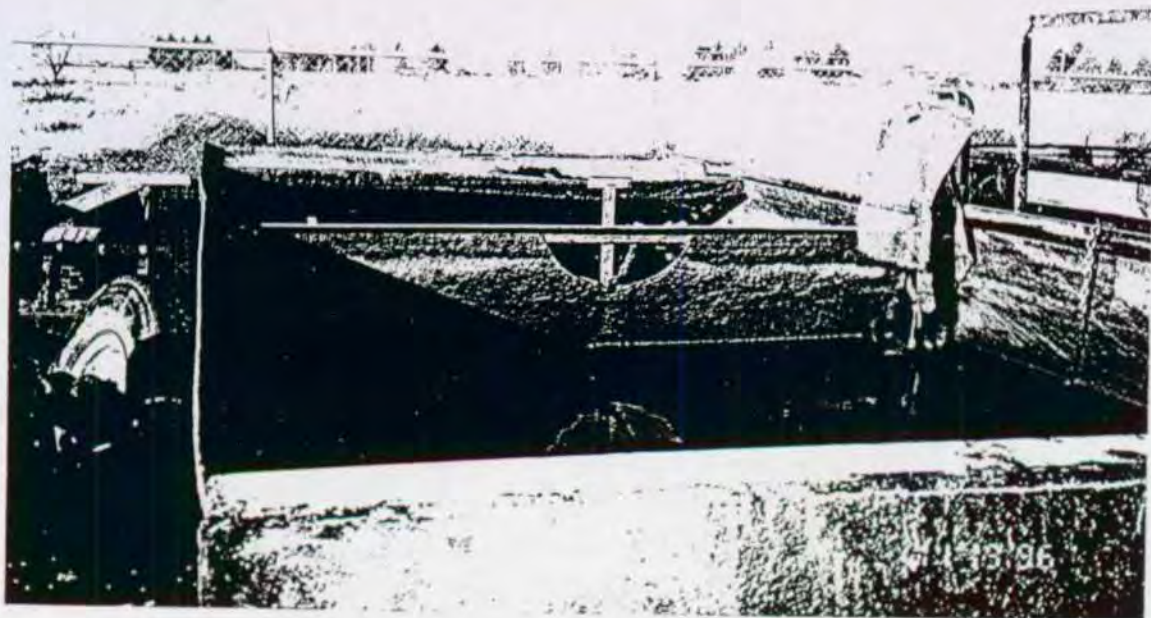


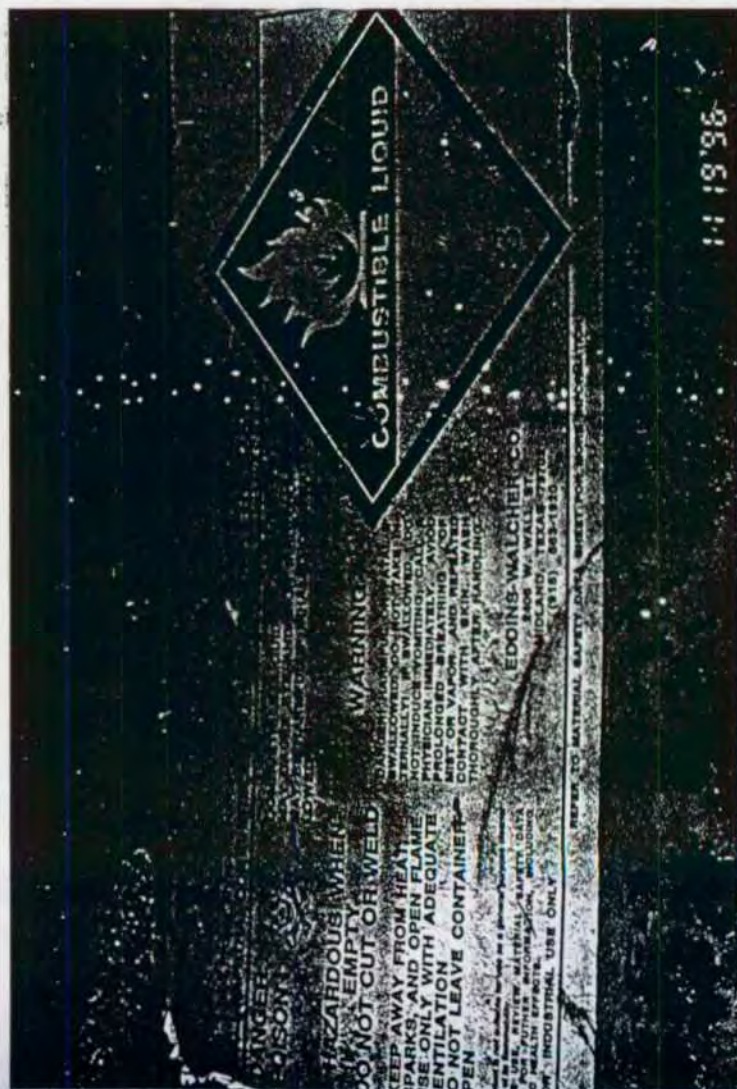
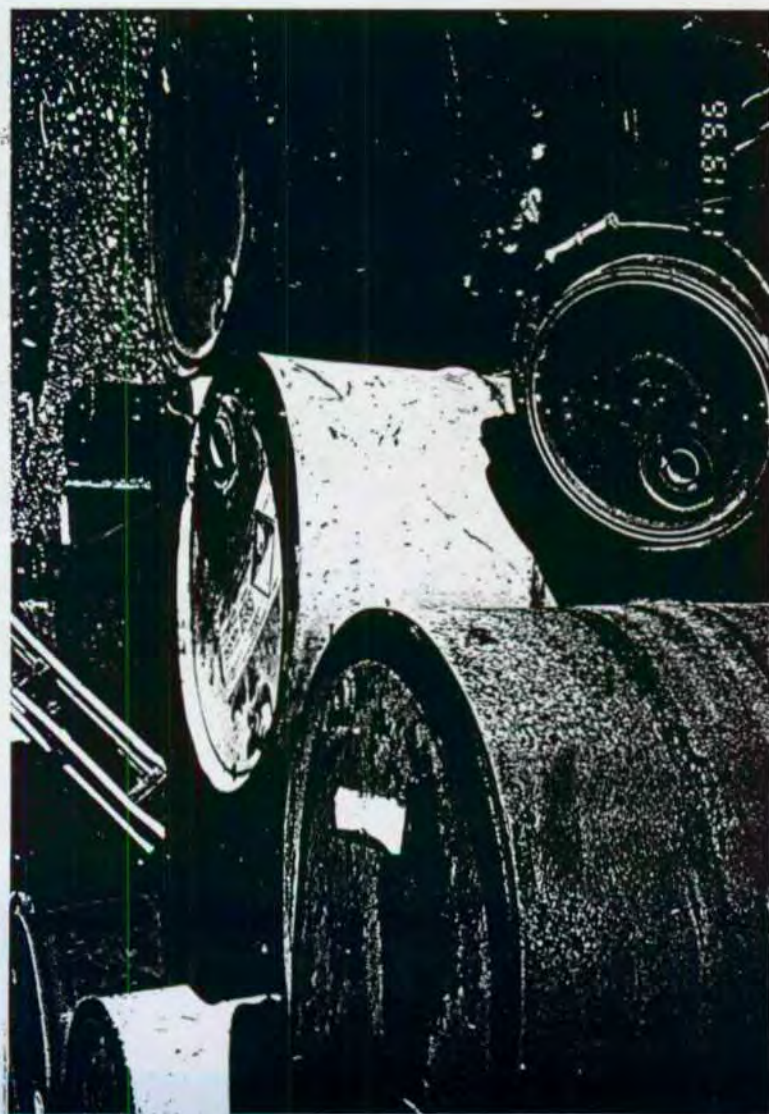
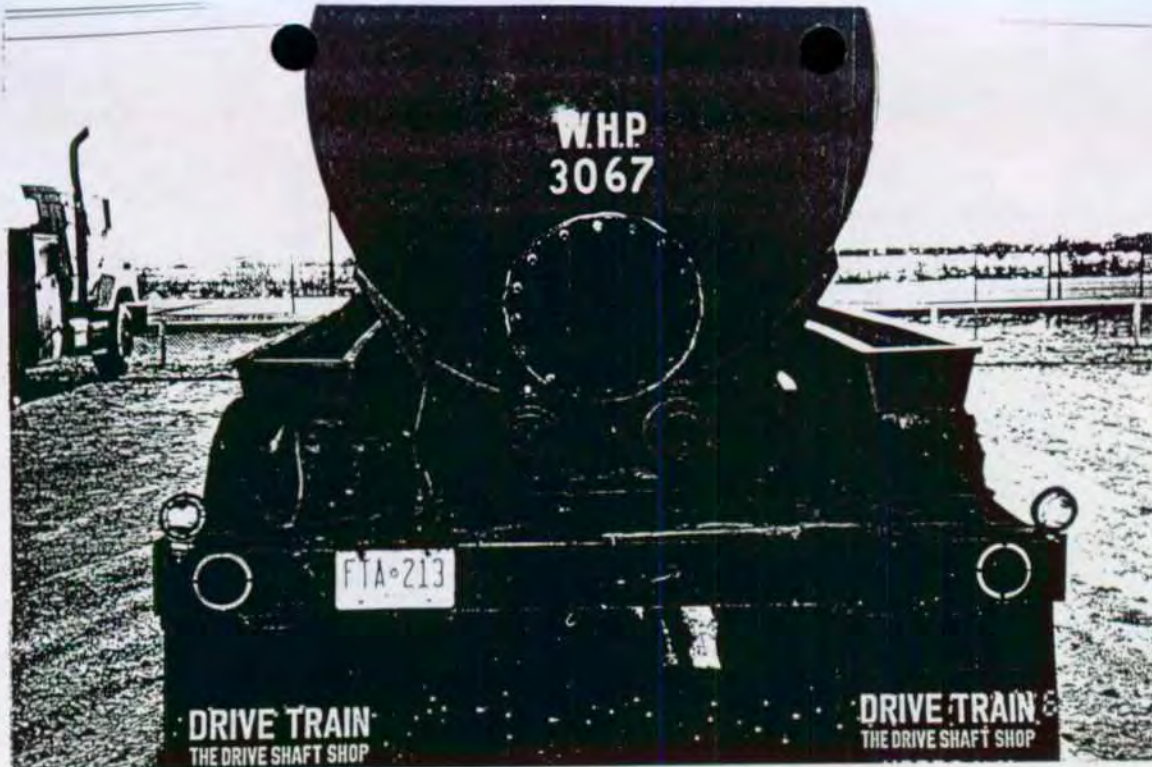


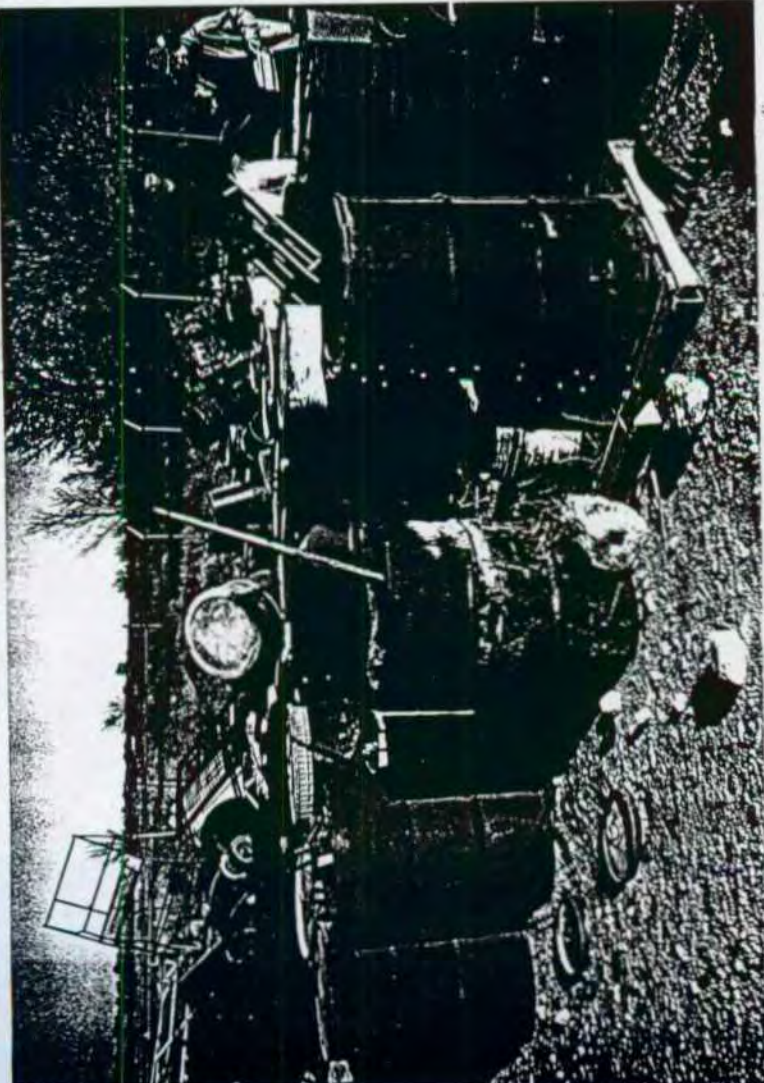
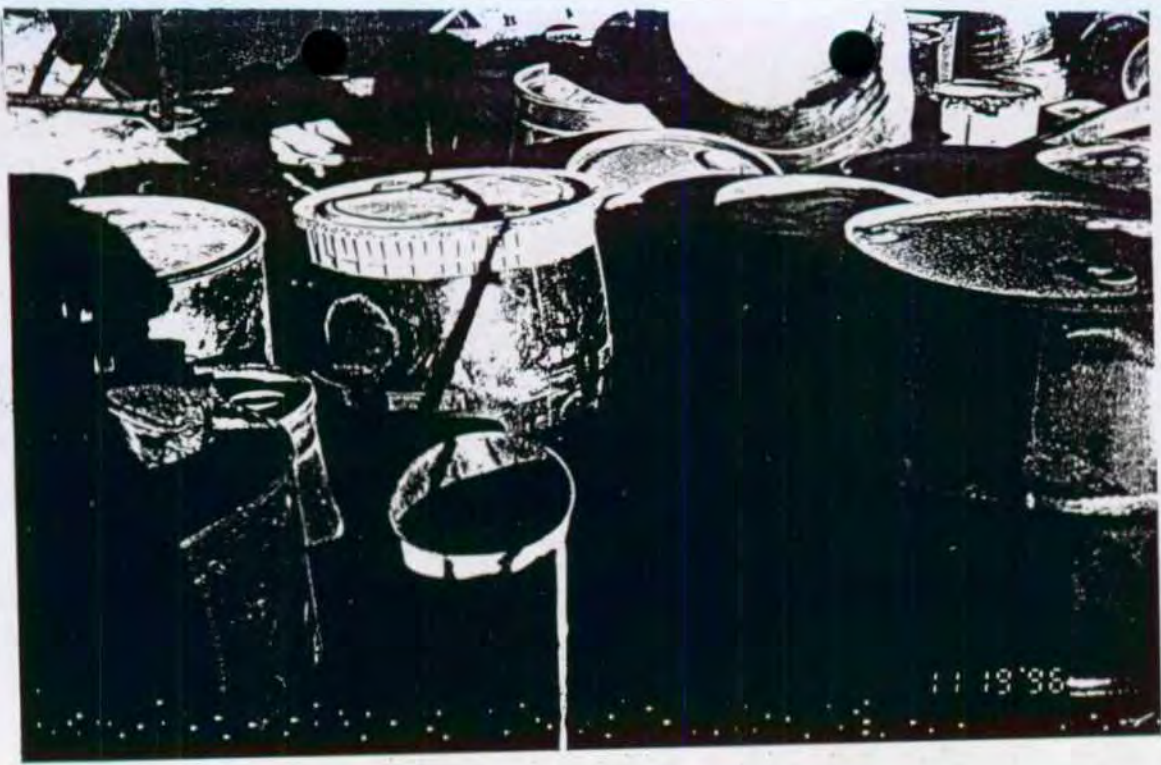




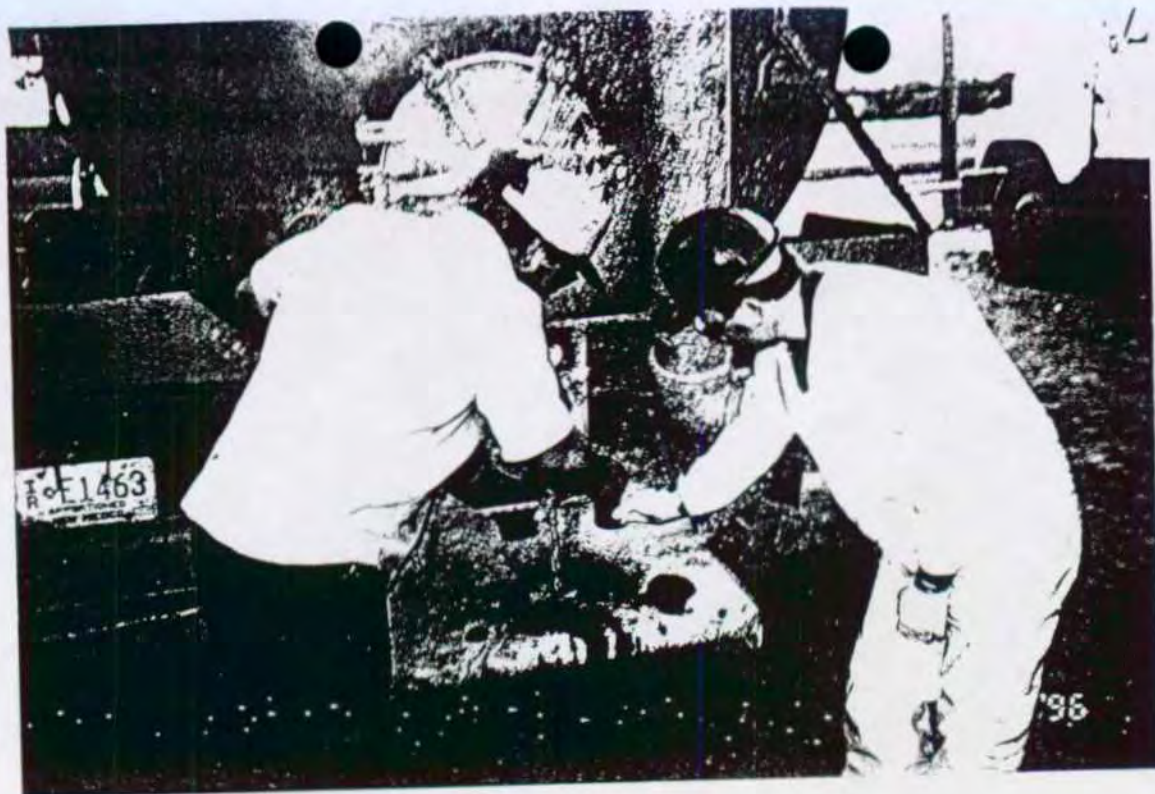


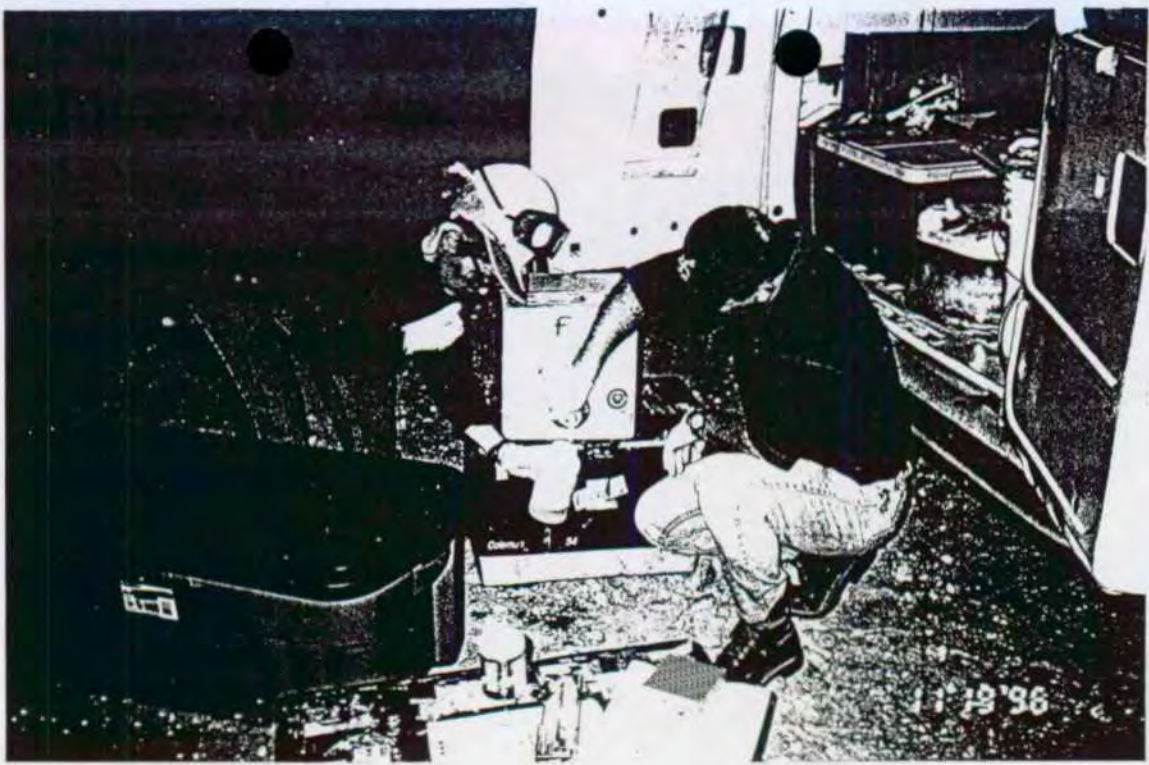












Safety & Environmental Solutions, Inc.

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attention: Mr. Pat Sanchez:

July 31, 1997

Dear Mr. Sanchez:

Regarding the notice of deficiency (NOD) for the Lucky Services, Inc. discharge plan dated June 27, 1997, we would like to request an extension until October 1, 1997. The reason for the extension is that we have not had time to fully prepare written procedures (and checks and balances) to insure the segregation of the three waste streams noted in your letter.

Dyke A. Browning of Safety & Environmental Solutions, Inc. has been in contact with Roger Anderson regarding NMOCD requirements with respect to insuring segregation of those streams. (Phone call with Roger Anderson - 7/31/97 10:35 am)

In addition, Lucky Services, Inc. recently received the inspection report from the EPA inspection dated May 5, 1997. This report was received on July 24, 1997 and was postmarked July 18, 1997. The results of the EPA laboratory analyses indicate that the sump water in question is non-hazardous per RCRA for ignitability, corrosivity, and TCLP metals. (See enclosed excerpts from the EPA report with analyticals).

Further modifications of the discharge plan are also forthcoming due to the installation of service to the local POTW.

In summary, we formally request an extension on the notice of deficiency (NOD) until October 01, 1997, in order to completely and correctly amend the Lucky Services, Inc. discharge plan as requested.

Your cooperation in this matter is greatly appreciated.

Sincerely,



Kevin Necaie
Lucky Services, Inc.

cc: Wayne Price

of each truck using a Mini Rae Plus, which is a photo ionization detector. Readings were noted during sample collection. Readings were used by the inspection team for monitoring health and safety during sampling activities.

Samples collected from the sump were collected via a clear polyethylene sample container that had the top inch removed. The open top polyethylene container was lowered into the sump via an extendable rod. The polyethylene container was dipped below the surface, retrieved, and the material contained in the polyethylene container was transferred into the appropriate analytical glassware. A.T. Kearney and Lucky glassware were filled alternately. During sampling activities, A.T. Kearney conducted organic vapor analysis at the top of the sump using a Mini Rae Plus. Readings were noted during sample collection. Readings were used by the inspection team for monitoring health and safety during sampling activities.

Sample Collection Procedures

The first sample, LS-01-WL-01, was collected from the tanker truck with the license plate FTA213. The material sampled was a light golden colored liquid that was cloudy and appeared to contain suspended solids (refer to Photographs R₁P₂₂ and R₁P₂₃). Matrix spike and matrix spike duplicate (MS/MSD) sample volume was collected with sample LS-01-WL-01. The second sample, LS-02-WL-01, was collected from the vacuum tanker truck with license plate E1463. The material sampled was a dark liquid and appeared to be oily in nature (refer to Photographs R₁P₂₄ and R₁P₂₅).

The third sample, LS-03-WL-01, was collected from the sump. The material sampled was a clear liquid with black suspended solids that appeared to contain oily material. Sample LS-03-WL-02 was collected as a blind duplicate of sample LS-03-WL-01 (refer to Photograph R₂P₁). The field blank, LS-01-FB-01, was collected near the sump.

All samples collected were properly custody sealed, and tagged, and placed in a cooler. The samples were wrapped in bubble wrap, placed in sealing plastic bags, and packed in appropriate DOT shipping containers. Multiple DOT shipping containers were packed in an overpack container for shipping. The field blank was handled according to the same procedure, but was maintained on ice to a temperature below 4°C. The chain-of-custody paperwork was placed in a clear plastic bag and taped to the inside of the shipping container/overpack. Copies of the chain-of-custody forms can be found in Appendix C. The overpacks were then sealed with strapping tape and a custody seal was placed on the overpack and covered with clear tape. The samples were shipped overnight, via Federal Express, to the EPA Laboratory in Houston, Texas for chemical analysis (refer to Photograph R₂P₃).

TABLE 2
Sample Analytical Results

Sample ID Number/ Laboratory ID Number	Analysis	Compound	Reg Limit*	Concentration/ Results
LS-01-WL-01 7GDXER01-08	Ignitability	Ignitability	Positive	Negative
	PH	Corrosivity	≤2 or ≥12.5	7.0
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	PH	Corrosivity	≤2 or ≥12.5	6.8
LS-03-WL-01 7GDXER01-13	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.120 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-01-FB-01 7GDXER01-17	TCLP Metals	arsenic	5.0 mg/l	NA
		barium	100.0 mg/l	.060 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-03-WL-02 7GDXER01-14	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.140 mg/l
	Ignitability	Ignitability	Positive	Negative

* Regulatory limits are based on 40CFR 261.24(b)

Safety & Environmental Solutions, Inc.

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attention: Mr. Pat Sanchez:


June 2, 1997

Dear Mr. Sanchez:


Regarding our conversation of a few days ago concerning the discharge plan recently filed in your office for Lucky Services, Inc., please find enclosed the data given to me by Mr. Charles Rothwell of the city of Hobbs. This data reflects the water quality of the area as tested by the city of Hobbs. Please include this with the Lucky Services discharge plan previously submitted as Appendix D.

If you have any questions, or I can be of further service, please call.

Yours in Safety,



Dyke A. Browning - REM, CEI
SES, Inc.





NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87606
(505) 827-7131

Reger 827-7152

June 27, 1997

CERTIFIED MAIL

RETURN RECEIPT NO. P-326-936-622

Mr. Dwayne Taylor
Lucky Services Inc.
P.O.Box 5790
Hobbs, NM 88241

**RE: Discharge Plan Application - Hobbs Facility, NOD
Lucky Services Inc.
Lea County, New Mexico**

Dear Mr. Taylor:

The New Mexico Oil Conservation Division has issued public notice and reviewed the Discharge Plan application dated May 12, 1997, and the additional information submitted by Safety and Environmental Solutions (on behalf of Lucky Services Inc.) dated June 2, 1997. The OCD at this time however, cannot approve of the above listed Discharge Plan Application until the following issue(s) are clarified further:

Under sections VII and VIII of the application prepared by SES on behalf of Lucky Services Inc., there are three particular wastes/effluents that are listed as exempt from RCRA Subtitle C regulations. The three items are numbers (2) Truck, Tank, and Drum Washing, (3) Steam Cleaning, and (9) Solids and Sludges from Tanks. In general these type of service company wastes are not exempted from RCRA Subtitle C as Exploration and Production Exempt Wastes. The OCD therefore requests that Lucky Services provide a more detailed regulatory interpretation as to the proper regulatory status of these wastes. Lucky Services will respond to this notice of deficiency (NOD) by July 28, 1997 in order for OCD to continue the review process for this facility.

Please be advised this review letter does not relieve Lucky Services Inc. of liability should the operations of this facility result in pollution of surface waters, ground waters or the environment. Further, OCD review does not relieve Lucky Services Inc. from responsibility for compliance with other federal, state, and local permitting requirements, rules, and regulations that may apply.

If Lucky Services Inc. has any question regarding this matter please feel free to contact me at (505)-827-7156.

Sincerely,

Patricio W. Sanchez
Petroleum Engineering Specialist
Environmental Bureau - OCD

c: OCD Hobbs District Office

*In sure segregation,
procedures in place.*

*Request regulatory determination
by Reger per Pat. 7/13/97*

*827-
7156*



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

December 11, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-718

Mr. Kevin Necaise
Sales & Safety Rep.
Lucky Services Inc.
P.O.Box 5790
Hobbs, NM 88241

**Re: Discharge Plan Requirement
Lucky Services Inc. Hobbs facility
Lea County, New Mexico**

Dear Mr. Necaise:

Under the provision of the Water Quality Control Commission (WQCC) Regulations, and as a result of the October 10, 1996 facility inspection by the New Mexico Oil Conservation Division (OCD), the inspection report from OCD dated December 5, 1996, you are hereby notified that the filing of a discharge plan is required for the facility located at 6210 Lovington Highway, Hobbs, New Mexico.

The notification of discharge plan requirement is pursuant to Section 3104 and 3106 of the WQCC regulations. The discharge plan, defined in Section 1101.N of the WQCC regulations should cover all discharges of effluent or leachate at the facility site or adjacent to the facility site. Included in the plan should be plans for controlling spills and accidental discharges at the facility, including detection of leaks in buried underground tanks and/or piping.

Pursuant to Section 3106.A, a discharge plan should be submitted for approval to the OCD Director within 120 days of receipt of this letter. Please submit the original 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 request.

The Director shall allow a period of thirty days from the date of this letter for requesting an exemption from filing a discharge plan. Requests for an exemption shall be in writing and shall set forth the reasons why an exemption should be granted.

Mr. Kevin Necaise
Lucky Services Inc.
December 11, 1996
Page 2

A copy of the regulations have been enclosed for your convenience. Also enclosed is a copy of the OCD guideline for the preparation of discharge plans at oil & gas service companies. The guideline addresses berming of tanks, curbing and paving of process areas susceptible to leaks or spills and the disposition of any solid wastes.

The discharge plan is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of \$50 plus the flat rate of \$1380 for oil & gas service companies. The \$50 dollar filing fee is due when the discharge plan is submitted. The flat rate fee is due upon approval of the discharge plan.

Please make all checks payable to: NMED Water Quality Management and addressed to the OCD Santa Fe office.

If you have any questions, please feel free to contact Pat Sanchez at (505)-827-7156.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief
(505)-827-7152

RCA/pws

enclosure-application form, guidelines, and WQCC regulations.

xc: Mr. Wayne Price - OCD Hobbs, w/o enclosure

MEMORANDUM OF MEETING OR CONVERSATION



Telephone



Personal

Time 9:20AM

Date 12-11-96

Originating Party

Other Parties

Mr. Kevin Neraise - w/Lucky
Services.

Pat Sanchez - CCD

Subject

Lucky Services - Habbs yard.

Discussion

① Discharge ceased the day Wayne Price went by the facility on October 10, 1996. (To above ground line area.) Kevin said he stopped it at the direction of Wayne.

② Kevin said that within the next day or so they excavated the contaminated soil and placed it within the facility on plastic.

③ He is not sure if his company has received the inspection report from Wayne dated Dec. 5, 1996.

Conclusions or Agreements

① I let Mr. Neraise know that a discharge plan requirement letter would be coming.

② If they had any questions to give us (CCD) a call.

Distribution File, Wayne Price.

Signed

Robert W. Price

MEMORANDUM OF MEETING OR CONVERSATION



Telephone



Personal

Time 8:07 AM

Date 12-11-96

Originating Party

Other Parties

Pat Sanchez - OCD

Wayne Price - OCD

Subject

Lucky Well Service. (Hobbs)

Discussion

- (1) Asked if the discharge had ceased - Wayne not sure. (Lucky has not officially notified Wayne in writing that the discharge has ceased.)
 - (2) No Remedial proposal received yet (by Hobbs or Santa Fe.)
 - (3) Wayne, first went out to Lucky on Oct. 7, 1996.
 - Wayne inspected the Facility on Oct. 10, 1996.
 - Sent inspection report on December 5, 1996.
- *Kevin Necaize - phone no. 392-1547. w/Lucky.

Conclusions or Agreements

- (1) OCD Santa Fe to send discharge Plan requirement letter.
- (2) Let Wayne know that I am going to phone Mr. Necaize w/Lucky.

Distribution File, Wayne Price

Signed

Robert W. Price



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

December 5, 1996

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

Mr. Kevin Necaise
Sales & Safety Rep.
Lucky Services Inc. (LSI)
P.O. Box 5790
Hobbs, N.M. 88241

Reference: October 10, 1996 Inspection of Lucky Services Inc.
facility located at 6210 Lovington Hwy.

Subject: Discharge of fuel terminal sump effluent water.

Dear Mr. Necaise,

Please find enclosed the results of my recent inspection of your facility.

1. The oily water discharge found at the end of pipe southeast of your facility and being discharged into the right-of-way of Daisy street was discovered to be coming from your fuel terminal sump. This was verified by you placing a water hose in the sump and this water was noticed coming out of the end of pipe located referenced above.

This discharge was discovered on October 7, 1996 by NMOCD personnel and pictures were taken at that time. (copies enclosed for your files.) The area of discharge indicated gross hydrocarbon stains in and around the end of pipe.

2. Your facility was toured and the following sketch was made and various pictures taken. (copies attached for your files.)
3. A closing meeting was held and the following topics were discussed.
 - A. Your facility is classified as an oilfield service company under the regulatory jurisdiction of the New Mexico Oil Conservation Division (NMOCD).

Per 3104 of the NM Water Quality Control Commission (WQCC) regulations; effluent discharges of water contaminates to the ground is disallowed unless the discharge is pursuant to an approved discharge plan.

- B. Per our discussion and tour observation the wash rack sump area was observed to have non-exempt waste such as used lube oils, degreasing soaps, road grime etc, being disposed of into the sump. This type of waste would be classified as RCRA non-exempt and requires that you make a hazardous waste determination before you dispose of this material into a permitted NMOCD facility.

The practice of disposing of the RCRA non-exempt service company wash rack sump water into EPA/NMOCD type UIC Class II disposal wells (SWD's) is not allowed and you are hereby advised to stop this practice immediately.

- C. The tour identified a number of unidentified drums and buckets.
- D. Three large tanks in the back of the yard that is not properly bermed.
- E. One old trailer leaking brine water onto the ground.
- F. Fuel tanks not properly bermed.

After careful review of your facility it is my recommendation that LSI obtain a NMOCD Discharge Plan for your facility. By obtaining a NMOCD discharge plan it will bring your facility into compliance from the standpoint of protecting ground water, public health, and the environment. It will also assist you in properly handling certain solid waste and cleaning up contaminated soil found at the end of pipe discharge.

Since all discharge plan requirements are handled out of our NMOCD Santa Fe office, please contact Mr. Roger Anderson Environmental Bureau Chief concerning this issue. He may be reached at 505-827-7152 or by writing to New Mexico Oil Conservation Div. 2040 south Pacheco, Santa Fe, NM concerning this issue.

The NMOCD District I office respectfully request that you copy our office on all communications to NMOCD Santa Fe concerning this matter so as we may assist you in your permitting and clean-up actions as may be required by the NMOCD Environmental Bureau.

If you require any further assistance concerning this matter please do not hesitate to call (505-393-6161) or write.

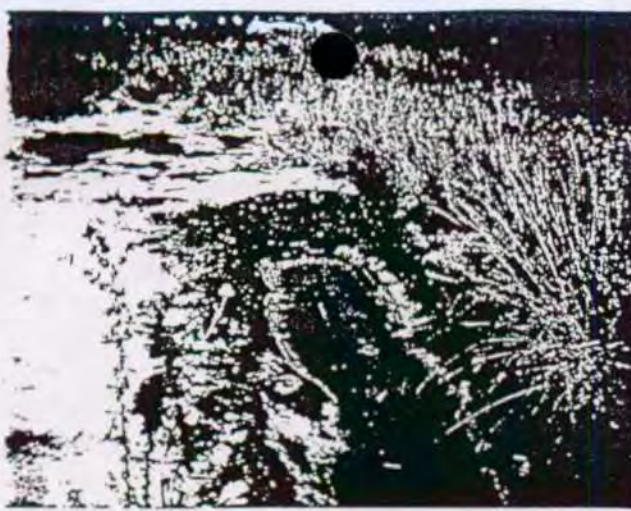
Sincerely yours,

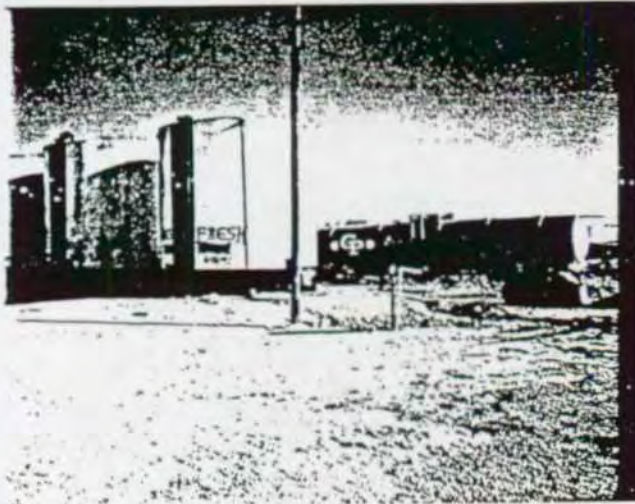
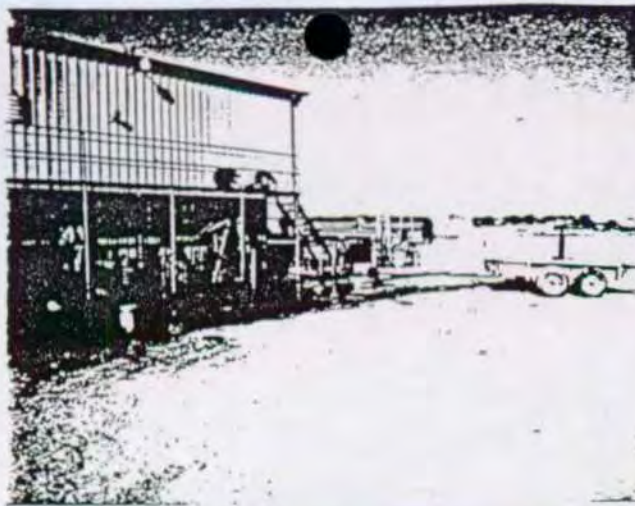
A handwritten signature in cursive script that reads "Wayne Price".

Wayne Price-Environmental Engineer

cc: Jerry Sexton-NMOCD District I Supervisor
Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa Fe

attachments- 1-sketch
copies of pictures

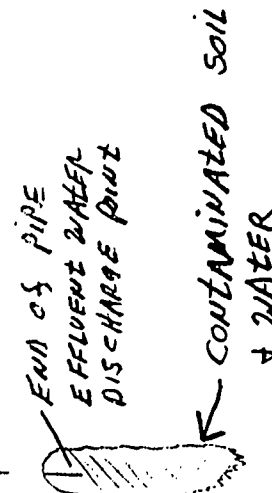
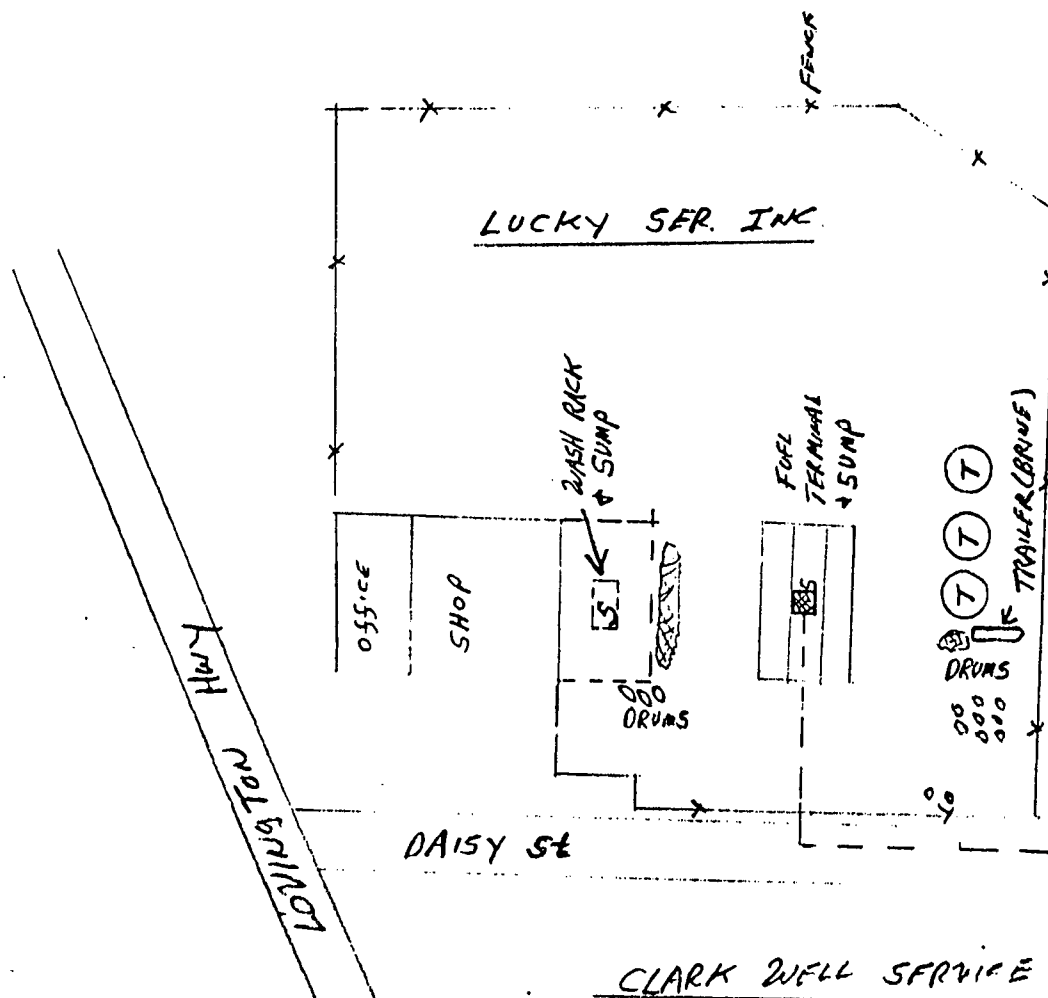




2 ORIGINALS * SENT TO SANTA FE !
JP

N

"COLLEGE of SW
CAMPUS"



VACANT FIELD

SKETCH PLOT PLAN #1 10/10/76
LUCKY SERVICES INC.
6210 LOVINGTON HWY - MORRIS NM

LUCKY SERVICES, INC.

PH. 505-392-1547
P.O. BOX 5790
HOBBS, NM 88241-5790

LEA COUNTY STATE BANK
HOBBS, NEW MEXICO 88240
95-183-1122

PAY Fifty dollars and 00/100

TO THE NMED
ORDER Water Quality Management Fund
OF

DATE
5-14-97

AMOUNT
\$50.00

Wayne Taylor

Security features included. Details on back.

Appendix D

Fuel Tank Secondary Containment New Valve Installation Box



New Valve Installation - POTW/Cleanout



Wash Bay - Secondary Containment Berm



Holding Tank for POTW Effluent





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

August 6, 1997

CERTIFIED MAIL

RETURN RECEIPT NO. P-326-936-581

Mr. Kevin Necaise
Lucky Services Inc.
P.O.Box 5790
Hobbs, NM 88241

**RE: Temporary Authorization to Discharge - Hobbs Facility
Lucky Services Inc.
Lea County, New Mexico**

Dear Mr. Necaise:

The New Mexico Oil Conservation Division has received the request dated July 31, 1997 from Lucky Services Inc. for temporary authorization to discharge without an approved discharge plan for until October 1, 1997 while the issues brought up in the June 27, 1997 letter from OCD are addressed by Lucky Services, Inc.

Pursuant to Water Quality Control Commission (WQCC) Regulations 3106.B, and for good cause shown, **Lucky Services Inc. is authorized to discharge without an approved discharge plan until October 1, 1997 for the following facility:**

- **Lucky Services Inc.(GW-282) , 6210 Lovington Highway, Hobbs, New Mexico.**

Please be advised this authorization does not relieve Lucky Services Inc. of liability should the operations of this facility result in pollution of surface waters, ground waters or the environment. Further, OCD authorization does not relieve Lucky Services Inc. from responsibility for compliance with other federal, state, and local permitting requirements, rules, and regulations.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roger C. Anderson".

Roger C. Anderson
Bureau Chief
Environmental Bureau - OCD

RCA/pws

c: Mr. Wayne Price, Environmental Engineer - Hobbs OCD District Office

P 826 936 581

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to Mr. Taylor-Lucky Smith	
Street & Number P.O. Box 5790	
Post Office, State, & ZIP Code Hobbs, NM 88241	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Safety & Environmental Solutions, Inc.

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attention: Mr. Pat Sanchez:

AME - 5 1997

July 31, 1997

Dear Mr. Sanchez:

Regarding the notice of deficiency (NOD) for the Lucky Services, Inc. discharge plan dated June 27, 1997, we would like to request an extension until October 1, 1997. The reason for the extension is that we have not had time to fully prepare written procedures (and checks and balances) to insure the segregation of the three waste streams noted in your letter.

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In summary, we formally request an extension on the notice of deficiency (NOD) until October 01, 1997, in order to completely and correctly amend the Lucky Services, Inc. discharge plan as requested.

Your cooperation in this matter is greatly appreciated.

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Kevin Necaie
Lucky Services, Inc.

cc: Wayne Price

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	Ignitability	Ignitability	Positive	Negative
LS-01-FB-01 7GDXER01-17	TCLP Metals	arsenic	5.0 mg/l	NA
		barium	100.0 mg/l	.060 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-03-WL-02 7GDXER01-14	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.140 mg/l
	Ignitability	Ignitability	Positive	Negative

* Regulatory limits are based on 40CFR 261.24(b)

Safety & Environmental Solutions, Inc.
703 E. Clinton, Suite 103
Hobbs, New Mexico 88240

FACSIMILE COVER SHEET

To: **Pat Sanchez**

From: **Dyke Browning**

Subject: **Lucky Services Discharge Plan NOD**

Total Number of Pages: 4 including cover sheet

If any portion of the preceding fax is illegible, please call us immediately at:

(505) 397-0510

Fax (505) 393-4388

Safety & Environmental Solutions, Inc.

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attention: Mr. Pat Sanchez:

July 31, 1997

Dear Mr. Sanchez:

Regarding the notice of deficiency (NOD) for the Lucky Services, Inc. discharge plan dated June 27, 1997, we would like to request an extension until October 1, 1997. The reason for the extension is that we have not had time to fully prepare written procedures (and checks and balances) to insure the segregation of the three waste streams noted in your letter.

Dyke A. Browning of Safety & Environmental Solutions, Inc. has been in contact with Roger Anderson regarding NMOCD requirements with respect to insuring segregation of those streams. (Phone call with Roger Anderson - 7/31/97 10:35 am)

In addition, Lucky Services, Inc. recently received the inspection report from the EPA inspection dated May 5, 1997. This report was received on July 24, 1997 and was postmarked July 18, 1997. The results of the EPA laboratory analyses indicate that the sump water in question is non-hazardous per RCRA for ignitability, corrosivity, and TCLP metals. (See enclosed excerpts from the EPA report with analyticals).

Further modifications of the discharge plan are also forthcoming due to the installation of service to the local POTW.

In summary, we formally request an extension on the notice of deficiency (NOD) until October 01, 1997, in order to completely and correctly amend the Lucky Services, Inc. discharge plan as requested.

Your cooperation in this matter is greatly appreciated.

Sincerely,



Kevin Necaie
Lucky Services, Inc.

cc: Wayne Price

of each truck using a Mini Rae Plus, which is a photo ionization detector. Readings were noted during sample collection. Readings were used by the inspection team for monitoring health and safety during sampling activities.

Samples collected from the sump were collected via a clear polyethylene sample container that had the top inch removed. The open top polyethylene container was lowered into the sump via an extendable rod. The polyethylene container was dipped below the surface, retrieved, and the material contained in the polyethylene container was transferred into the appropriate analytical glassware. A.T. Kearney and Lucky glassware were filled alternately. During sampling activities, A.T. Kearney conducted organic vapor analysis at the top of the sump using a Mini Rae Plus. Readings were noted during sample collection. Readings were used by the inspection team for monitoring health and safety during sampling activities.

Sample Collection Procedures

The first sample, LS-01-WL-01, was collected from the tanker truck with the license plate FTA213. The material sampled was a light golden colored liquid that was cloudy and appeared to contain suspended solids (refer to Photographs R₁P₂₂ and R₁P₂₃). Matrix spike and matrix spike duplicate (MS/MSD) sample volume was collected with sample LS-01-WL-01. The second sample, LS-02-WL-01, was collected from the vacuum tanker truck with license plate E1463. The material sampled was a dark liquid and appeared to be oily in nature (refer to Photographs R₁P₂₄ and R₁P₂₅).

The third sample, LS-03-WL-01, was collected from the sump. The material sampled was a clear liquid with black suspended solids that appeared to contain oily material. Sample LS-03-WL-02 was collected as a blind duplicate of sample LS-03-WL-01 (refer to Photograph R₂P₁). The field blank, LS-01-FB-01, was collected near the sump.

All samples collected were properly custody sealed, and tagged, and placed in a cooler. The samples were wrapped in bubble wrap, placed in sealing plastic bags, and packed in appropriate DOT shipping containers. Multiple DOT shipping containers were packed in an overpack container for shipping. The field blank was handled according to the same procedure, but was maintained on ice to a temperature below 4°C. The chain-of-custody paperwork was placed in a clear plastic bag and taped to the inside of the shipping container/overpack. Copies of the chain-of-custody forms can be found in Appendix C. The overpacks were then sealed with strapping tape and a custody seal was placed on the overpack and covered with clear tape. The samples were shipped overnight, via Federal Express, to the EPA Laboratory in Houston, Texas for chemical analysis (refer to Photograph R₂P₃).

TABLE 2
Sample Analytical Results

Sample ID Number/ Laboratory ID Number	Analysis	Compound	Reg Limit*	Concentration/ Results
LS-01-WL-01 7GDXER01-08	Ignitability	Ignitability	Positive	Negative
	PH	Corrosivity	≤ 2 or ≥ 12.5	7.0
LS-02-WL-01 7GDXER01-09	Ignitability	Ignitability	Positive	Negative
	PH	Corrosivity	≤ 2 or ≥ 12.5	6.8
LS-03-WL-01 7GDXER01-13	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.120 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-01-FB-01 7GDXER01-17	TCLP Metals	arsenic	5.0 mg/l	NA
		barium	100.0 mg/l	.060 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-03-WL-02 7GDXER01-14	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.140 mg/l
	Ignitability	Ignitability	Positive	Negative

* Regulatory limits are based on 40CFR 261.24(b)



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

June 27, 1997

CERTIFIED MAIL

RETURN RECEIPT NO. P-326-936-622

Mr. Dwayne Taylor
Lucky Services Inc.
P.O.Box 5790
Hobbs, NM 88241

**RE: Discharge Plan Application - Hobbs Facility, NOD
Lucky Services Inc.
Lea County, New Mexico**

Dear Mr. Taylor:

The New Mexico Oil Conservation Division has issued public notice and reviewed the Discharge Plan application dated May 12, 1997, and the additional information submitted by Safety and Environmental Solutions (on behalf of Lucky Services Inc.) dated June 2, 1997. The OCD at this time however, cannot approve of the above listed Discharge Plan Application until the following issue(s) are clarified further:

Under sections VII and VIII of the application prepared by SES on behalf of Lucky Services Inc., there are three particular wastes/effluents that are listed as exempt from RCRA Subtitle C regulations. The three items are numbers (2) Truck, Tank, and Drum Washing, (3) Steam Cleaning, and (9) Solids and Sludges from Tanks. In general these type of service company wastes are not exempted from RCRA Subtitle C as Exploration and Production Exempt Wastes. The OCD therefore requests that Lucky Services provide a more detailed regulatory interpretation as to the proper regulatory status of these wastes. Lucky Services will respond to this notice of deficiency (NOD) by July 28, 1997 in order for OCD to continue the review process for this facility.

Please be advised this review letter does not relieve Lucky Services Inc. of liability should the operations of this facility result in pollution of surface waters, ground waters or the environment. Further, OCD review does not relieve Lucky Services Inc. from responsibility for compliance with other federal, state, and local permitting requirements, rules, and regulations that may apply.

If Lucky Services Inc. has any question regarding this matter please feel free to contact me at (505)-827-7156.

Sincerely,

Patricio W. Sanchez
Petroleum Engineering Specialist
Environmental Bureau - OCD

c: OCD Hobbs District Office

P 326 936 622

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
Lucky Services - Mr. Taylor	
Street & Number	
Discharge Plan - Review.	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

RECEIVED

JUN 1 0 1997

Environmental Bureau
Oil Conservation Division

NOTICE OF PUBLICATION

MAY 20 1997

5163

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

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

(GW-282) - Lucky Services Company, Mr. Dwayne Taylor, (505)-392-1547, P.O. Box 5790, Hobbs, NM, 88240, has submitted a Discharge Plan Application for their Hobbs facility located in the NE/4 SW/4, Section 6, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 100 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 16th day of May, 1997.

NO EFFECT FINDING

The described action will have no effect on listed species, wetlands, or other important wildlife resources.

Date

Consultant

Approved by

U.S. FISH and WILDLIFE SERVICE

NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE

ALBUQUERQUE, NEW MEXICO

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**

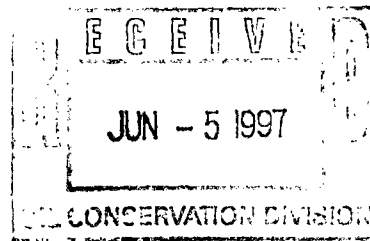
WILLIAM J. LEMAY, Director

WJL/pws

Safety & Environmental Solutions, Inc.

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attention: Mr. Pat Sanchez:

June 2, 1997




Dear Mr. Sanchez:


Regarding our conversation of a few days ago concerning the discharge plan recently filed in your office for Lucky Services, Inc., please find enclosed the data given to me by Mr. Charles Rothwell of the city of Hobbs. This data reflects the water quality of the area as tested by the city of Hobbs. Please include this with the Lucky Services discharge plan previously submitted as Appendix D.

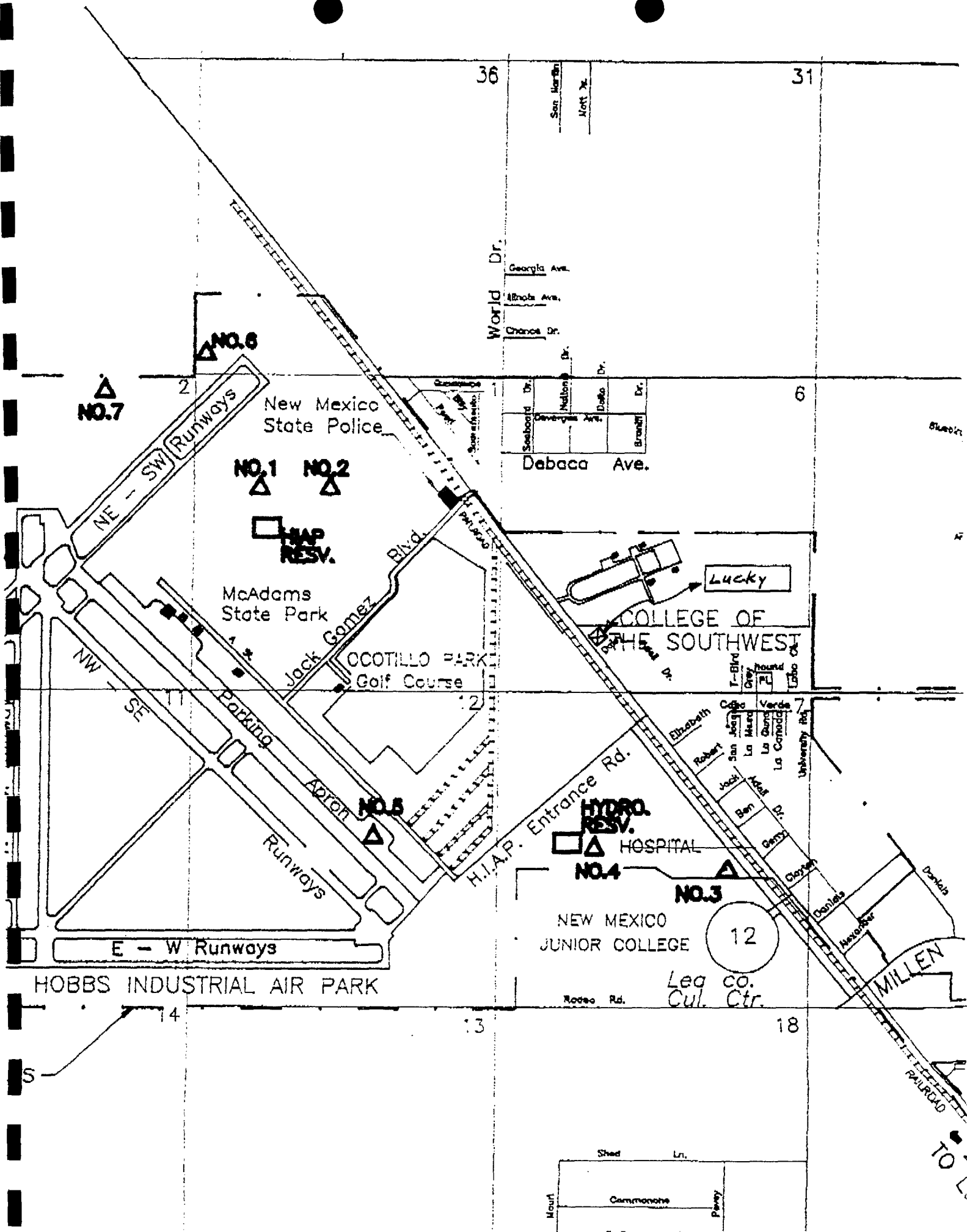
If you have any questions, or I can be of further service, please call.

Yours in Safety,



Dyke A. Browning - REM, CEI
SES, Inc.





STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 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 BUREAUBarbara 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 CHROMATOGRAPHY (PID/ELCD)

DATE EXTRACTED: N/A
DATE ANALYZED: 8/25/96 4 Days: Within EPA Analysis Time
SAMPLE VOL (ml): 5
0ANALYSIS 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	
74-97-5	Bromochloromethane		U	0.50	
75-27-4	Bromodichloromethane*		U	0.50	80
75-25-2	Bromoform*		U	0.50	80
24-83-9	Bromomethane		U	0.50	
78-93-3	2-Butanone (MEK)		U	5.00	
104-51-8	n-Butylbenzene		U	0.50	
135-98-8	sec-Butylbenzene		U	0.50	
98-06-8	tert-Butylbenzene		U	0.50	
1634-04-4	tert-Butyl methyl ether (MTBE)		U	5.00	
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	
67-66-3	Chloroform*		U	0.50	80
74-87-3	Chloromethane		U	0.50	
95-49-8	2-Chlorotoluene		U	0.50	
106-43-4	4-Chlorotoluene		U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	0.50	0.2
124-48-1	Dibromochloromethane*		U	0.50	80
108-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	0.50	0.05
74-95-3	Dibromomethane		U	0.50	
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		U	0.50	
75-34-3	1,1-Dichloroethane				

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	0.50	
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	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
RECOVERIES:	2-Bromochlorobenzene (Photoionization Detector Surrogate)	10.28	102.8%
	2-Bromochlorobenzene (Electrolytic Conductivity Detector Surrogate)	9.69	96.9%
LABORATORY FORTIFIED	The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below:		
BLANK	COMPOUND	CONCENTRATION (ug/L)	% RECOVERY
RECOVERIES	Bromoform	10	122
	Dibromochloromethane	10	121
LABORATORY BLANKS	No target compounds were detected above the sample detection limit in laboratory blank with the exception of the compound(s) listed below:		
	COMPOUND	CONCENTRATION (ug/L)	
	No Exceptions		

ANALYST: S. A. Mustafa

QC APPROVED BY:

Ken Skerrell

(S)

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 ($\sim 5 \times$ 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

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 5-14-97

or cash received on in the amount of \$ 50.00

from Lucky Svcs

for Hobbs GW-282

Submitted by: Date:

Submitted to ASD by: Date: 5-23-97

Received in ASD by: Date:

Filing Fee ☒ New Facility ☐ Renewal ☐

Modification ☐ Other ☐ (specify)

Organization Code 521.07 Applicable FY 97

To be deposited in the Water Quality Management Fund.

Full Payment ☐ or Annual Increment ☐

LUCKY SERVICES, INC.

PH. 505-392-1547

P.O. BOX 5790

HOBBS, NM 88241-5790

LEA COUNTY STATE BANK
HOBBS, NEW MEXICO 88240
95-183-1122

PAY Fifty dollars and 00/100

DATE
5-14-97

AMOUNT
\$50.00

TO THE NMED
ORDER OF Water Quality Management Fund

STATE OF NEW MEXICO

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~~ ~~XXXXXX~~
 ~~XXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~ was published in a regular and
 entire issue of THE LOVINGTON DAILY LEADER and
 not in any supplement thereof. ~~and back XXXXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~, for one (1) day.

XXXXXXXXXXXXXXXXX, beginning with the issue of _____
 May 23 _____ 19 97

and ending with the issue of _____
May 23 _____, 19 97

And that the cost of publishing said notice is the

sum of \$ 45.60

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

Subscribed and sworn to before me this 23rd

day of May 1997

Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 1998

Lea County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 100 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 applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of

**New Mexico Oil
Conservation
Commission at Santa Fe,
New Mexico, on this 16th
day of May, 1997.**

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

SEAL
Published in the
Lovington Daily Leader
May 23, 1997.

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

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RECEIVED

MAY 30 1997

Environmental Bureau
Oil Conservation Division

The Santa Fe New Mexican

Since 1849. We Read You.

RECEIVED

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

MAY 30 1997

AD NUMBER: 642935

ACCOUNT: 56689

Environmental Bureau
Oil Conservation Division
LEGAL NO: 61758

P.O. #: 97-199-002997

164 LINES ONCE at \$ 65.60

Affidavits: 5.25

Tax: 4.43

Total: \$ 75.28

AFFIDAVIT OF PUBLICATION

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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(GW-282) - Lucky Services Company, Mr. Dwayne Taylor, (505)-392-1547, P.O. Box 5790, Hobbs, NM, 88240, has submitted a Discharge Plan Application for their Hobbs facility located in the NE/4 SW/4, Section 6, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 100 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division

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

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 16th day of May 1997.

STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION
WILLIAM J. LEMAY,
Director
Legal #61758
Pub. May 23, 1997

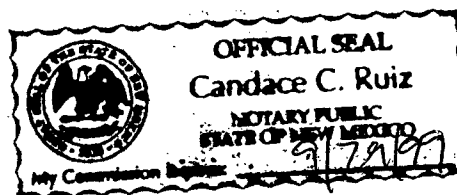
STATE OF NEW MEXICO
COUNTY OF SANTA FE

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 # 61758 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 23 day of MAY 1997 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 23 day of MAY A.D., 1997

Notary Candace C. Ruiz
Commission Expires 7/2/99



NOTICE OF PUBLICATION

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

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

(GW-282) - Lucky Services Company, Mr. Dwayne Taylor, (505)-392-1547, P.O. Box 5790, Hobbs, NM, 88240, has submitted a Discharge Plan Application for their Hobbs facility located in the NE/4 SW/4, Section 6, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 100 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 16th day of May, 1997.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**

William J. Lemay / *by RCF*
WILLIAM J. LEMAY, Director

S E A L

WJL/pws

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

RECEIVED

MAY 16 1997

Revised 12

Submit On:
Plus 1 C.
to San:
1 Copy to appro:
District C

Environmental Bureau
Oil Conservation Division

**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: Oilfield Service Company
2. Operator: Lucky Services, Inc.
Address: P.O. Box 5790 Hobbs, NM 88240
Contact Person: Kevin Necaize Phone: (505) 392-1547
3. Location: NE /4 SW /4 Section 6 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 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 OCC 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.

and correct to the best of my knowledge

NAME: Dwayne Taylor

Title: President

Signature: Dwayne Taylor

Date: 05-12-97

LUCKY SERVICES, INC.

PH. 505-392-1547

P.O. BOX 5790

HOBBS, NM 88241-5790

LEA COUNTY STATE BANK
HOBBS, NEW MEXICO 88240
95-183-1122

PAY Fifty dollars and 00/100

DATE
5-14-97

AMOUNT
\$50.00

TO THE ORDER OF NMED
Water Quality Management Fund

Wayne Taylor

GW-282



OLD FILE COPY.

RECEIVED

MAY 16 1997

Environmental Bureau
Oil Conservation Division

Prepared for

Lucky Services, Inc.

For the facility located at
6210 Lovington Highway
Hobbs, NM 88240
(505) 392-1547

Used:

GW Depth $\approx 25'$
TDS ≈ 100 mg/L
Phg
5-16-97

Prepared by:

Safety & Environmental Solutions, Inc.

703 E. Clinton Suite 103
Hobbs, NM 88240
(505) 397-0510

May 12, 1997

Lucky Services, Inc. Discharge Plan

I. Type of Operation

Lucky Services, Inc. is an Oil and Gas Production Service Company that provides services to clients in the oilfield. These services include well workovers (pulling units), transport services, and miscellaneous labor requirements for oilfield production companies. The facility is located approximately 1 mile north of Hobbs, New Mexico on the Lovington highway.

The major purpose of the facility is to provide an equipment yard, office, routine maintenance building, and chemical storage area for Lucky Services, Inc. No non-domestic wastes are disposed of at the facility. The only domestic wastes generated at the facility are effluent discharged to the sewer system maintained by the city and regulated by the NMED, and household garbage picked up in dumpsters by Waste Control of New Mexico.

The normal hours of operation are 6:00 am to 5:00 pm Monday through Friday. The facility is fenced and secured during hours when company personnel are not present.

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

Operator: Lucky Services, Inc.
P.O. Box 5790
Hobbs, New Mexico 88240

Responsible Party: Same as above

Local Representative: Dwayne Taylor - President
Bill Hicks - Operations Manager
Robert Reyes - Rig Supervisor
Kevin Necaie - Safety Supervisor

III. Location of the Discharge Plan Facility

Lucky Services, Inc. facility is located at 6210 Lovington Highway in Hobbs, New Mexico. The legal description of the facility is Township 18 South, Range 38 East, Section 6. GPS Coordinates are: 32° 46' 26" North Latitude
103° 11' 40" West Longitude
Elevation is 3882 feet above sea level.

Appendix A Figure 1 is a USGS Topographic Map, Figure 2 is a City of Hobbs street map, and Figure 3 is a City of Hobbs property ownership map defining the location of the subject property.

IV. Landowners

The landowner of record is: Lucky Services, Inc.
P.O. Box 5790
Hobbs, New Mexico 88240

V. Facility Description

The facility is situated on approximately 5 acres of land. A diagram of the facility including facility/property boundaries, fences, pits, berms, tanks, locations of discharges, storage facilities, disposal facilities, processing facilities, and other relevant areas is shown in Figure 4, Appendix A. The facility consists of the following:

- An office building (See figure 5 Appendix A)
- A maintenance/shop building attached to the office
- An asphalt truck wash bay with associated sump
- A fuel island protected by secondary containment consisting of:
 - (1) 1 - 8000 gallon above ground diesel tank for highway use
 - (2) 1- 2000 gallon above ground unleaded gasoline tank
 - (3) 1- 2000 gallon above ground diesel tank for non-highway use
 - (4) 1 - 250 gallon above ground storage tank (formerly containing methanol- out of service, will be disposed of)
- 1- 500 barrel fresh water storage tank
- 1- 500 barrel brine water storage tank
- 1- 500 barrel KCL water storage tank
- An equipment storage yard
- One active septic system (leach field) for office sewage only (Class V injection well)
- 1- 300 gallon steel tank for motor oil and gear oils (picked up by recycler)

All Storage tanks at the facility are above ground storage tanks (AST), and are constructed of either fiberglass or carbon steel. The storage tanks are used to store wastes (used oil), chemicals (KCL water and Brine), and fuels (diesel and unleaded gasoline). All tanks are surrounded by secondary containment areas with the exception of the KCL and Brine tanks, plans to construct secondary containment for these tanks are in process. Secondary containment for the fuel storage is concrete. Plans are being made to assure that all secondary containment has the capacity to contain 1.33 times the volume of the largest tank. All drains and underground piping are sealed, with access limited to authorized persons when stormwater or washwater must be disposed of. All effluent from these containment areas will be properly classified and disposed of per RCRA and any other federal and state regulations.

The wash bay area has traditionally been used to wash the exterior of Lucky Services trucks. This practice has been discontinued, and all truck washing will be done off site. The wash bay will only be used to wash oil field exempt waste containers, and the waste generated will be hauled to a permitted NMOCD facility until such time as a hook up and permit is completed to the local POTW.

VI. Materials Stored or Used at the Facility

Table 1 Materials Stored or Used at the Hobbs, NM Facility Lucky Services, Inc.				
Material Stored	General Composition	Solid or Liquid	Container Type	Volume Stored
1. Drilling Fluids				
N/A				
Category 2. Brines. (KCL, NaCl, etc.)				
KCL	Potassium Chloride and Water	Liquid	AST	< 500 bbls.
10 lb. Brine	Sodium Chloride and Water	Liquid	AST	< 500 bbls.
Category 3. Acids/Caustic				
N/A				
Category 4. Detergents/Soaps				
Rig Wash (Biodegradable)	Non-Ionic Surfactant	Powder	32 gallon cardboard drum	< 200 lbs.
Category 5. Solvents and Degreasers				
Parts Washing Solvent	Light Petroleum Distillates (Naptha)	Liquid	30 gallon parts-washing drum	< 30 gallons
Category 6. Paraffin Treatment/Emulsion Breakers				
N/A				
Category 7. Biocides				
N/A				
Category 8. Others				
Motor Oil	Solvent refined petroleum hydrocarbons	Liquid	Drums	< 250 gallons
Antifreeze	Ethylene Glycol	Liquid	Drum	< 55 gallons

# 2 Diesel Fuel	Light hydrocarbon distillates	Liquid	AST	< 8000 gallons
#2 Diesel Fuel	Light hydrocarbon distillates	Liquid	AST	< 2000 gallons
Unleaded Gasoline	Light hydrocarbon distillates	Liquid	AST	< 2000 gallons
Clay Stabilizer	Oxyalkylated Nonyl-Phenol	Liquid	Drum	55 gallons*
Corrosion Inhibitor	Petroleum Naptha	Liquid	Drum	55 gallons*

* Volume of 55 gallon drums of these materials varies according to job needs. No more is stored than is needed for immediate use.

The current HAZCOM (Hazard Communication per 29 CFR 1910.1200) inventory is as follows:

Antifreeze

Brine (10 pound)

Clay Stabilizer

Corrosion Inhibitor

Diesel Fuel

Gasoline

Grease - Transfer Case and Rear End (90 weight)

Grease - Bearing and Axle

Hydraulic Fluid

KCL and Water

Motor Oil (Non-detergent 30 weight)

Motor Oil (15W-40)

Motor Oil (10W-30)

Motor Oil (40 weight)

Rig Wash (Powdered Soap)

Sandline Chemical

Solvent - Parts WasherTransmission Fluid

Unleaded Gasoline

*Quantities and Material Safety Data Sheets are available for inspection at the Lucky Services, Inc. office during normal office hours.

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

Table 2: Sources and Quantities of Effluent and Waste Solids Generated at the Hobbs, New Mexico Facility - Lucky Services, Inc.			
Category per NMOCDD Discharge Plan Guidelines			
Effluent Type	Volume Generated	Additional Constituents	Volume of Additional Constituents
1. Truck Wastes	None	None	None
2. Truck, Tank, and Drum Washing	40 bbls./month	Residues of KCL, Crude Oil	20 gallons/month
3. Steam Cleaning	10 bbls./month	Residues of Crude Oil, KCL	10 gallons/month
4. Solvent/Degreaser	0.2 gal/month	None	None
5. Spent Acids/Caustics, or Completion fluids	Not applicable	None	None
6. Waste Slop Oil	None	None	None
7. Waste Lubrication and Motor Oils	60 gallons/month	None	None
8. Oil Filters	40 filters/month	None	None
9. Solids and Sludges from Tanks	10 bbls./month	None	None
10. Painting Wastes	Not applicable	None	None
11. Sewage	50 gallons/day	None	None
12. Other Waste Liquids	Not applicable	None	None
13. Other Waste Solids	700 lbs./month	None	None
14. Spent automotive batteries	1/month	Lead, acid	None

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

1. Truck Wastes (Original Contents Trucked) - Not applicable
2. Truck, Tank, and Drum Washing - No exterior washing of vehicles is done onsite. Interior washing of trucks and tanks is done onsite and the effluent is taken to a permitted NMOCD facility for exempt oilfield waste.
3. Steam Cleaning of Parts, Equipment, or Tanks - All wastes generated by this process are exempt oilfield waste and are caught in the sump and transported to a permitted NMOCD facility for exempt oilfield waste.
4. Solvent and degreaser is only used in a closed system parts washer inside the shop, and reclaimed by a recycler.
5. Spent Acids or Caustics, or Completion Fluids - Not applicable
6. Waste Slop Oil - Not applicable
7. Waste Lubrication and Motor Oils - Waste oil from vehicle maintenance operations performed onsite by Lucky Services personnel is collected and stored in a labeled above-ground storage tank. The tank is located on the wash-bay pad which is effective secondary containment for the entire volume. If a leak develops, the waste must be classified and disposed of according to RCRA and state and federal regulations.
8. Oil Filters - Oil filters are completely drained into the recycle tank and the filters are taken by Waste Management as ordinary industrial waste
9. Solids and Sludges from Tanks - All solids and sludges generated from washing the inside of trucks and tanks is caught and taken as exempted oilfield waste to a NMOCD permitted facility.
10. Painting Wastes - All painting done onsite is done by compressor and spray gun. No wastes are generated as a result of this process. Any incidental paint waste is allowed to fully dry and the residue is disposed of as industrial waste in the municipal landfill by Waste Management.
11. Sewage - Domestic sewage from the Lucky Services offices is discharged through the active septic system located on the property. No other waste streams are mixed with the sewage.
12. Other Waste Liquids - Not applicable
13. Other Waste Solids - Industrial solid waste consisting of general refuse (office trash, paper, plastic, etc.) Is stored in the waste bin beside the office pending transport and disposal at the municipal landfill by Waste Management.
14. Spent automotive batteries are turned in for recycling at the time of purchase of new batteries.

IX. Proposed Modifications

1. Lucky Services will berm the existing KCL and Brine tanks per NMOCD guidelines to assure that any leak will not present a danger to the public or to the water supply.
2. Lucky Services will increase the size of the secondary containment to assure that the fuel storage island has adequate secondary containment.

X. Inspection, Maintenance, and Reporting

Chemical and waste storage area facilities are visually inspected routinely (daily) for leaks, corrosion or integrity problems; accumulated liquids in containment areas; improper labeling and storage practices; and open or deteriorated containers. Each storage area (except the KCL and Brine tanks) are enclosed in secondary containment, and isolated from other potential waste streams.

Normal maintenance of the material storage facilities is performed by facility personnel under supervision of the owner, operations manager, and the safety supervisor. Routine maintenance includes inspection of storage areas, remediation of minor spills, and routine maintenance involving the repair of leaking fittings or valves which pose no threat to personnel or the public.

The owner or the safety supervisor will determine which activities can be performed by facility personnel and which need to be contracted out due to the potential hazards involved.

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

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

Emergency Response Plan

In the event a toxic substance release should occur from fires, explosion, or any unplanned sudden, or non-sudden release of a hazardous waste - the responsible Lucky Services Inc. Employee at the scene, or the operation, shall take the following actions:

1. Promptly notify his immediate supervisor or any Lucky Services Inc. employee, of the release, it's location, and approximately magnitude. It is of the utmost importance that this first notification be given IMMEDIATELY on direction of a release so that notification of other company employees, residents of the area, and the general public may begin evacuation; if warranted this contingency plan.
2. Promptly render a judgment as to:
 - a) Whether or not any human life or property is in danger.
 - b) The source and cause of the emission.
 - c) Whether or not the toxic substance release can be readily stopped or brought under control without posing a danger to the health of safety of the employee.

3. If any human life or property is in danger, take prompt action to alleviate such danger, to the extent possible.

- a. If the escape can be readily stopped, or brought under control, the employee should do so.

Note: Lucky Services Inc., does not expect any employee to place his life or health in jeopardy as result of any action taken under this plan. Action under points 2, 3, and 4, above should be taken in conjunction with another company employee, unless it is clearly evident that such action may be undertaken without risk to the employee. No Lucky Services Inc. employee shall attempt to go on a leak detection mission without first notifying his immediate supervisor, or another company employee of his intentions.

XII. Site Characteristics

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 is 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 somewhat more concentrated recharge at the escarpment. Based on the review of the available well logs of the site area (eighteen wells), water depth ranges from 25 feet to 175 feet. (See Appendix B)

Geologically, the site is in the Kimbrough-Lea complex soil area. This complex is about 60 percent Kimbrough gravelly loam, 25 percent Lea loam, 10 percent inclusions of Stegall and Arvana soils, and 5 percent inclusions of Slaughter and Sharvana soils. In places the Kimbrough and Lea soils are equally distributed. The generally dominant Kimbrough soil is on slightly convex areas or on low knolls. It is very shallow over a thick bed of indurated caliche. The Lea soil has a dark grayish-brown to brown surface layer and a grayish-brown to brown loam subsoil. Indurated caliche is at a depth of 20 to 40 inches. The soils in this complex are used a range, wildlife habitat, and recreational areas. They are also a source of caliche for use in road construction.

Appendix A

Lovington Highway

Truck Parking

Truck Parking

Office

Shop

Sump

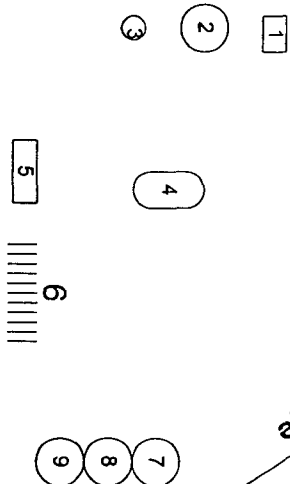
Daisy Street

Frac Tank Storage

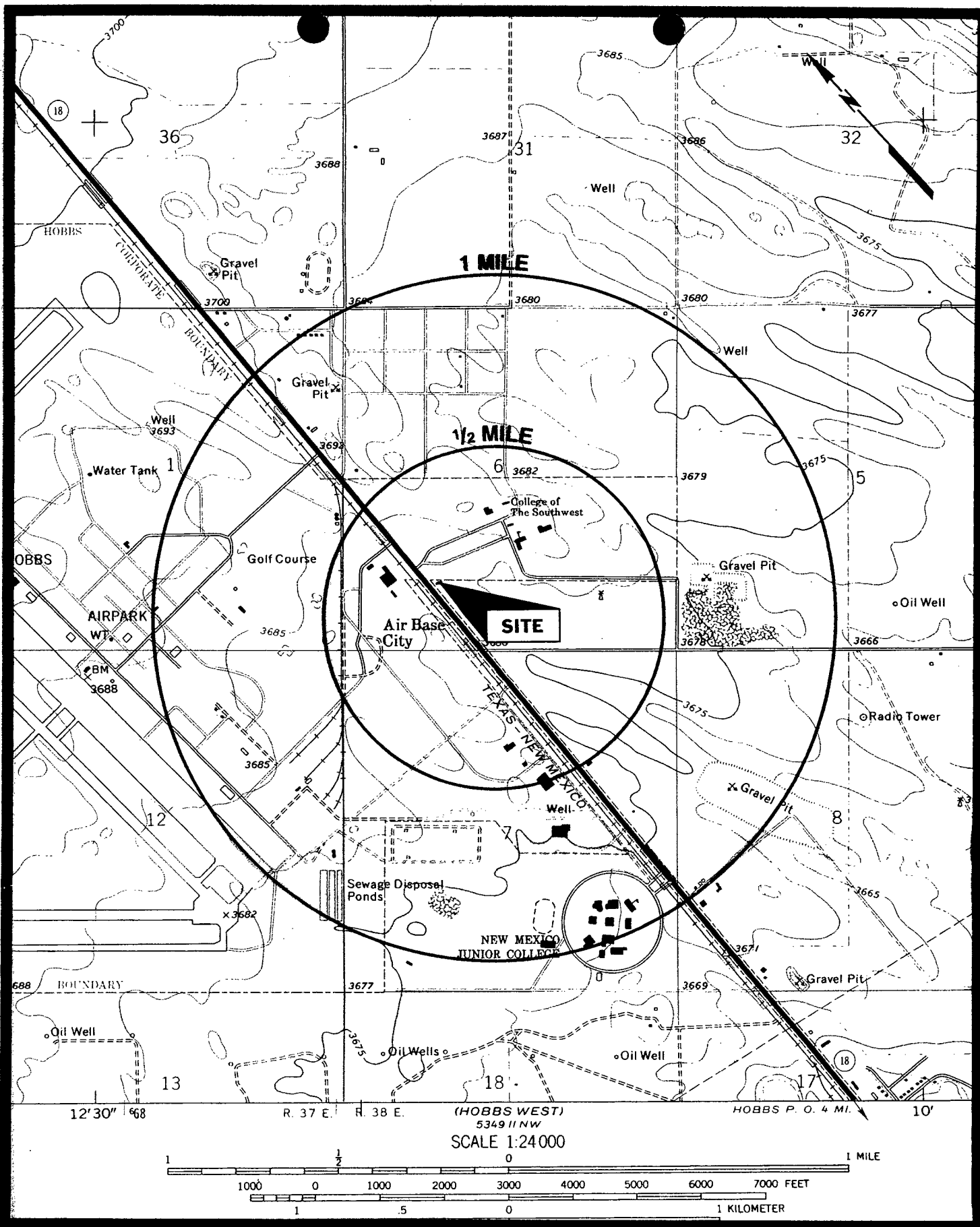
Trailer Storage



- 1 - Building
- 2 - 2000 gal Unleaded
- 3 - 2000 gal Diesel
- 4 - 8000 gal Diesel
- 5 - Building
- 6 - Pipe Rack
- 7 - Water
- 8 - KCL
- 9 - Brine



Lucky Services Inc.
Site Plan

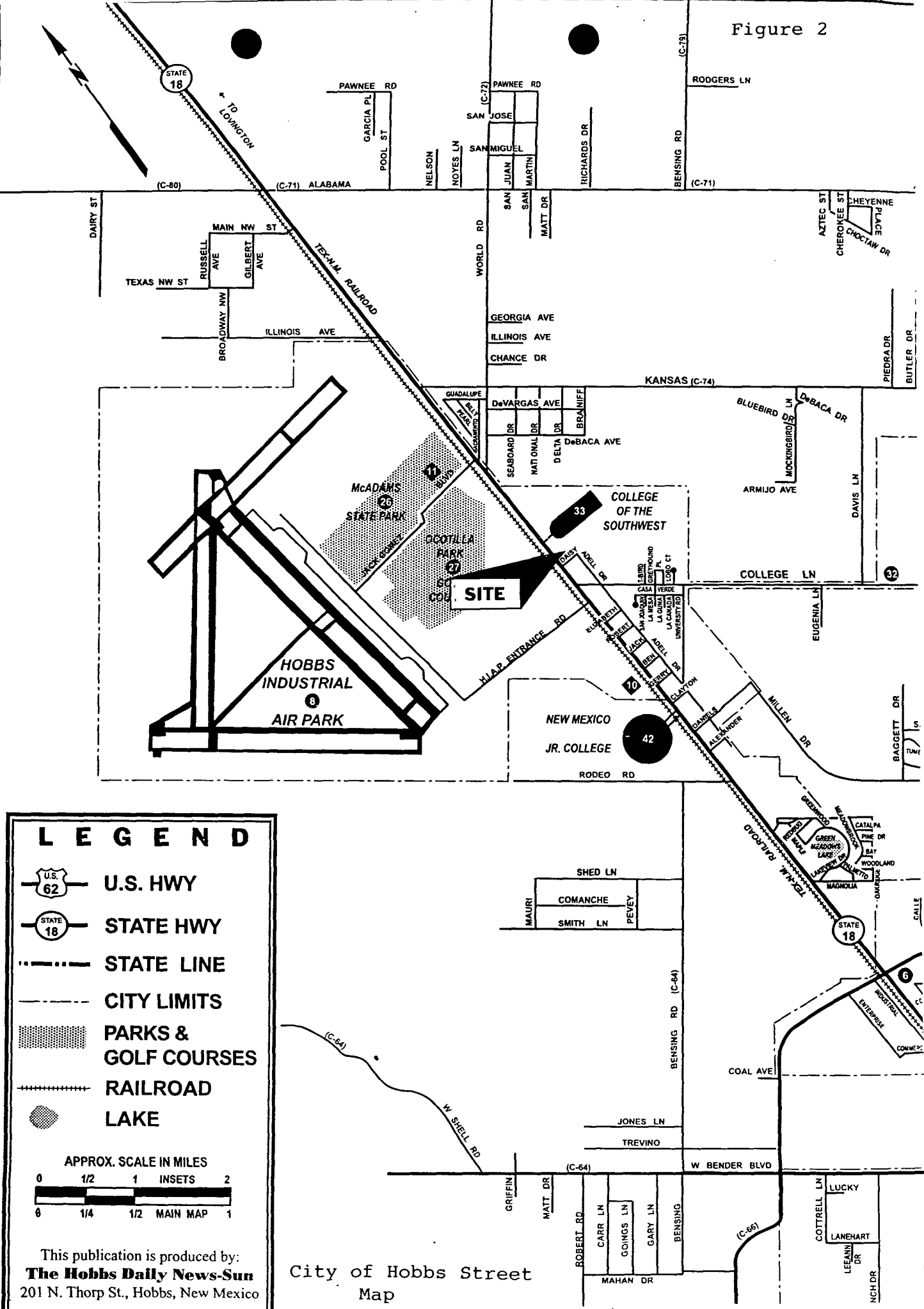


Real Estate Graphics ©COPYRIGHT 1994

USGS Topographic Map

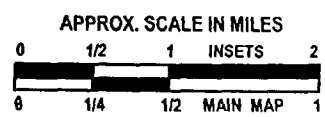
Figure 1

Figure 2



LEGEND

- U.S. HWY
- STATE HWY
- STATE LINE
- CITY LIMITS
- PARKS & GOLF COURSES
- RAILROAD
- LAKE



This publication is produced by:
The Hobbs Daily News-Sun
 201 N. Thorp St., Hobbs, New Mexico

City of Hobbs Street
 Map

College of Tt

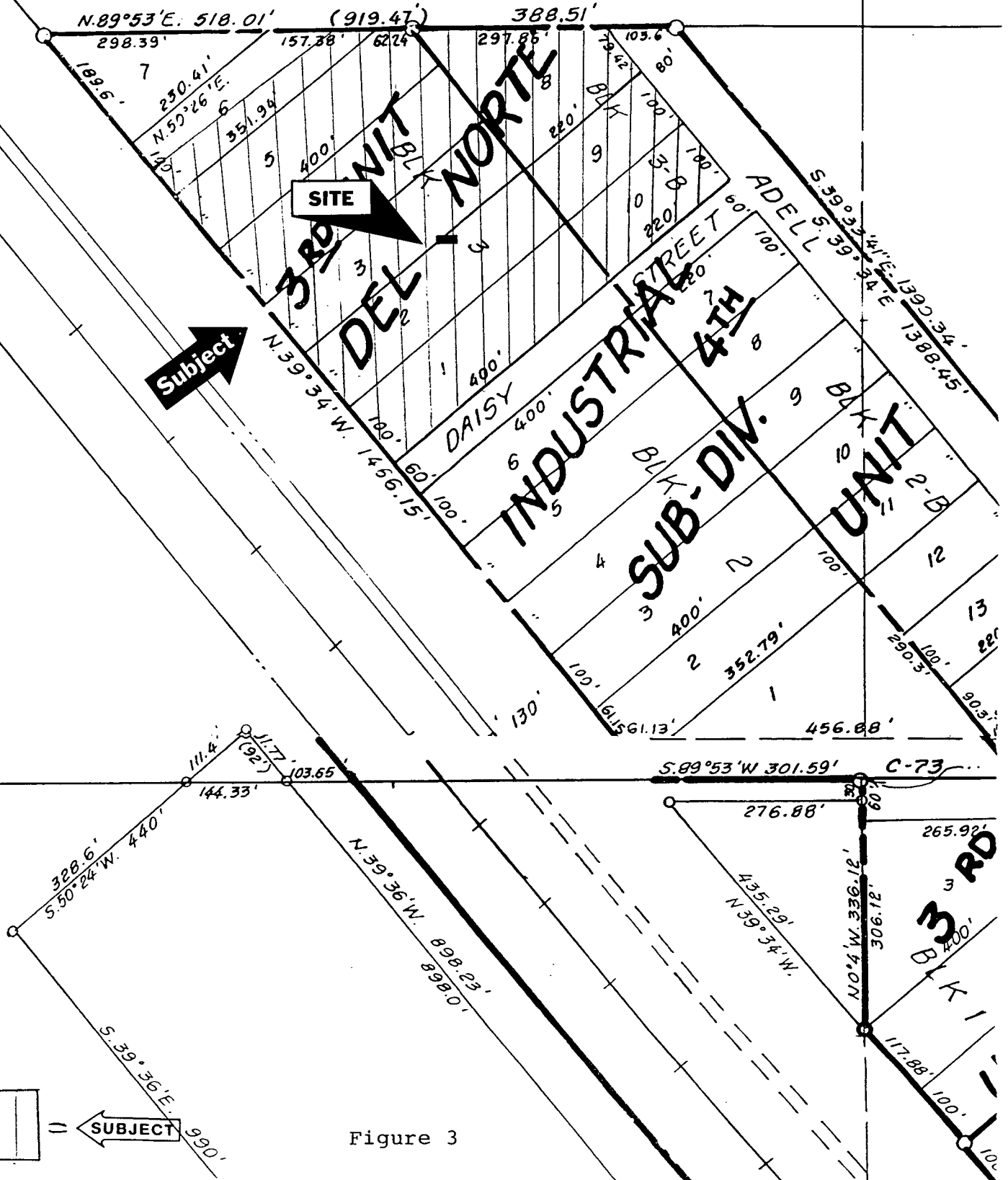


Figure 3

G210 Lovington Highway
 Hobbs, New Mexico 88240
 March 14, 1986

BUILDING AREA:
 $40.4 \times 70.5 = 2,848.20$
 $35.4 \times 50.6 = 1,791.24$
 $4,639.44 \text{ sq. ft.}$

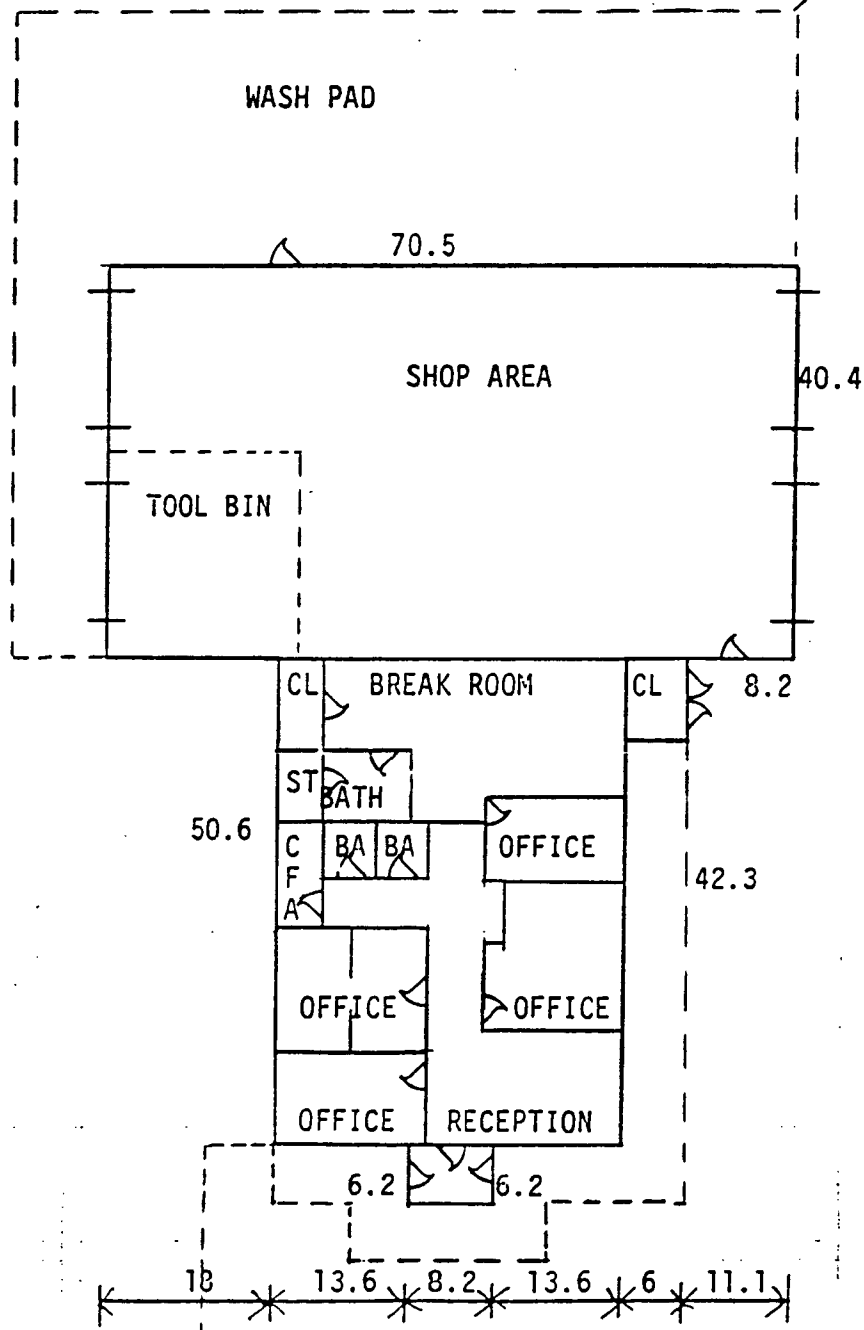


Figure 5

Appendix B

**STATE ENGINEER OFFICE
WELL RECORD**

Section 1. GENERAL INFORMATION

(A) Owner of well New Mexico Bank & Trust Owner's Well No. _____
 Street or Post Office Address P.O. Box 300
 City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. 1-7115 and is located in the:

a. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 7 Township 10S Range 5E N.M.P.M.

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

c. Lot No. 1-4 of Block No. 5 of the 1st Route Industrial Sub-division
 Subdivision, recorded in _____ County.

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

(B) Drilling Contractor Abbott Brothers License No. 1146

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

Drilling Began 11/6/73 Completed 11/8/73 Type tools Cable Size of hole 3 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 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			
<u>70</u>	<u>141</u>		<u>Brown Sand</u>	<u>100</u>

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
<u>7</u>	<u>22</u>	<u>8</u>	<u>0</u>	<u>141</u>	<u>141</u>	<u>None</u>	<u>70</u>	<u>141</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
					<u>Cemented around casing</u>

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Received 11/14/73

File No. L-7115 Quad _____ FWL _____ FSL _____
 Use DTC Location No. 18.38.7243

[illegible]

1973 NOV 26 AM 8:07
STATE ENGINEER OFFICE
DISTRICT II
Pawnee, WY 82501

1973 NOV 14 AM 8:25
STATE ENGINEER OFFICE
DISTRICT II
ROOSEVELT, N. MEV.

Abbot's Bros.
Driller Nelson Baker

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

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
1/4 Sec 34 NE 1/4 of Section 7 Twp. 18S. Rge. 38E.
 (B) Drilling Contractor Abbott Prothere License No. 12-48
 Street and Number P. O. Box 637
 City Hobbs State New Mexico
 Drilling was commenced February 28, 19 67
 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		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	60	70	10	water sand
	95	120	25	water sand
4				

Section 3

RECORD OF CASING

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

Section 4

RECORD OF MUDDING AND CEMENTING

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

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Kind of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19 _____

Plugging approved by:

Cement Plugs were placed as follows:

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received

1967 MAR -6 AM 8:31

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

No. L-6108 Use 0.00 Location No. 18.38.7.240

LOG OF WELL

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 Abbott
Well Driller

STATE ENGINEER OFFICE
WELL RECORDFIELD ENGINEERING
LOG FILED

Section 1. GENERAL INFORMATION

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

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

a. $\frac{1}{4}$ $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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.

B) Drilling Contractor YALCO DRILLING CO. License No. WD-763

Address ALCO W. BENDER HELENS 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>65</u>	<u>100</u>	<u>35</u>	<u>SAND & SANDSTONE</u> <u>pebbles</u>	<u>19</u>

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
<u>5 7/8</u>	<u>91.0</u> <u>160</u>		<u>0</u>	<u>100</u>	<u>20</u>		<u>80</u>	<u>100</u>

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

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

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received July 11, 1978

Quad _____ FWL _____ FSL _____

Well No. L-7935 Use DTC Location No. 18.38.7.24130

[illegible]

STATE ENGINEER OFFICE
NOTED 11 A.M.
JUL 11 5:11 8 30

Alfred Felber.
Driller

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

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

Section 7			
8			

(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 $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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

(Plat of 640 acres)

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		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
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		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
16	42.05	none	+1'3"	180'	181'3"		61 ft.	171 ft.

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To			
0	30	30"	--	3 $\frac{1}{2}$ 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: _____

Cement Plugs were placed as follows:

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

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received Sept. 11 1967 8:29AM

No. L-3274 Use Mlni Location No. 18.38.7. 234434

LOG OF WELL.

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.

By: (s) Larry Haney

Well Driller

STATE ENGINEER OFFICE

WELL RECORD

FIELD EXAM. LOG

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. 1/4 1/4 1/4 1/4 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
50	100	50	Sand	

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
7	23	10	0	100	100	None	50	100

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Is 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 _____

Quad _____ FWL _____ ESL _____

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

18.38.7.232 = PERMIT

[illegible]

75 SEP 8 AM 8 41
STATE ENGINEER OFFICE
ROSWELL, N.M.

Murrell Abbott
Driller H.B.

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

(This form to be executed in triplicate)

WELL RECORD

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

Name of permittee, Harry C. Huston

Street or P.O., box 181, City and State, Lovington N.M.

1. Well location and description: The shallow well is located in SU 1/4, SW 1/4,
(shallow or artesian)

SE 1/4 of Section 6, Township 18N, 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, 1951,

and completed 8-23, 1951; name of drilling contractor J. F. Burton

; Address, Box 42 Hobbs N.M.; Driller's License No. ED11

2. Principal Water-bearing Strata:

	Depth in Feet		Thickness	Description of Water-bearing Formation
	From	To		
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				

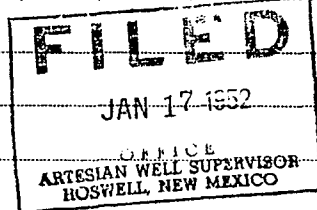
3. Casing Record: None

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

4. If above construction replaces old well to be abandoned, give location:.....1/4,1/4,1/4

of Section....., Township....., Range.....; name and address of plugging contractor,

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



L-1178

18.38.6.433

F.H

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Rosewell, 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.

Instructions

Licensed Well Driller

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.

[illegible]

5. Log of Well:

tions encountered should be as complete and accurate as possible.

STATE ENGINEER OFFICE

WELL RECORD

FIELD NO. 100

Section 1. GENERAL INFORMATION

(A) Owner of well R. N. Robinson Owner's Well No. 625231
 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. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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 2EA County.

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

(B) Drilling Contractor G.D. Ddaker 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>65</u>	<u>112</u>	<u>47</u>	<u>Water SAND</u>	<u>25 GPM</u>

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
<u>6 7/8</u>			<u>8</u>	<u>112</u>	<u>112</u>	<u>NONE</u>	<u>100</u>	<u>112</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		<u>8</u>			

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

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

[illegible]

APR 20 AM 8 30
ST. LOUIS OFFICE
7

RD Drake
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGINEER

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. 1/4 SW 1/4 SW 1/4 SE 1/4 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
58	120	62	Sand	

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
7	23	10	0	120	120	NONE	74	120

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 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 _____

Quad _____ FWL _____ FSL _____

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

[illegible]

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

Murrell Abbott
Driller H. B.

appropriate district office
possible when any well is

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 DONNELL DRILLING CO.
 Street and Number Box 1308
 City Odessa State Texas
 Well was drilled under Permit No. _____ and is located in the
1/4 NE 1/4 SE 1/4 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

(Plat of 640 acres)

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

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
	<u>50</u>	<u>100</u>	<u>50</u>	<u>water sand</u>
<u>2</u>				
<u>5</u>				

Section 3

RECORD OF CASING

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

Section 4

RECORD OF MUDDING AND CEMENTING

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

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: _____

Cement Plugs were placed as follows:

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

FOR USE OF

STATE ENGINEER ONLY

Date Received _____

SEP 11 1957

 OFFICE
 GROUND WATER SUPERVISOR
 ROSWELL, NEW MEXICO
File No. L-3672Use O.W.D.Location No. 18-38-6-420

LOG OF WELL

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.

Wm. H. Abbott
Well Driller

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR 102

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. $\frac{1}{4}$ $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 12 $\frac{1}{2}$ " 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>58</u>	<u>82</u>	<u>24</u>	<u>Sand</u>	
<u>106</u>	<u>141</u>	<u>35</u>	<u>Sand</u>	
<u>150</u>	<u>166</u>	<u>16</u>	<u>Sand</u>	

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
<u>10 3/4</u>	<u>34</u>	<u>Welded</u>	<u>0</u>	<u>170</u>	<u>170</u>	<u>NONE</u>	<u>90</u>	<u>170</u>

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

Drilling Contractor _____
Address _____
Plugging Method _____
Is Well Plugged _____
Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received June 22, 1981

Quad _____ FWL _____ FSL _____

File No. L-2790 Use IRR. Location No. 18.38.6.414114

2/14/83 FE.

[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 hole.

Murrell Abbott
Driller J.B.

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

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 W. J. G. O. P. L. L. L.
 Street and Number
 City State
 Well was drilled under Permit No. 1-58-1 and is located in the
S. 1/4 W. 1/4 SE 1/4 of Section 68 Twp. 34 Rge. 30
 (B) Drilling Contractor W. J. G. O. P. L. L. L. License No. 31-46
 Street and Number
 City State
 Drilling was commenced 19
 Drilling was completed 19

(Plat of 640 acres)

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 5.1

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	55	100	65	water sand
2	140	170	40	water sand
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
12 3/4	55	welded	1	206	206	none	141	106

Section 4

RECORD OF MUDDING AND CEMENTING

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

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: Cement Plugs were placed as follows:

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

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received 08-18-19 22-1-19 6951

File No. L-5294 Use IRR Location No. 18-38-6-4/3121

LOG OF WELL.

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 Abbott
Well Driller

WELL RECORD

Section 1. GENERAL INFORMATION

A) Owner of well Clark 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. $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW of Section 8 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. Alameda N. 7th. 88240

Drilling Began 11-22-78 Completed 11-28-78 Type tools Spudding 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>62</u>	<u>140</u>	<u>78</u>	<u>Red Sand</u>	<u>5-5</u>

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
<u>6 5/8</u>			<u>0</u>	<u>140</u>	<u>140</u>	<u>72-24</u>	<u>120</u>	<u>140</u>

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

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

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received August 16, 1979

Quad _____ FWL _____ FSL _____

Permit No. L-8007 Use DTC Location No. 18-38-6-344134

Temp. Seal

[illegible]

C. M. Griffin
Driver

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. All questions, 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 1(a) and Section 5 need be completed.

**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. $\frac{1}{4}$ $\frac{1}{4}$ SE $\frac{1}{4}$ SW of Section -7 6 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 C. 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 10 $\frac{1}{2}$ 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
48	130	72	Water Sand	25 GPM

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
6 5/8			0	130	130	None	120	130

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		10 $\frac{1}{2}$			

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 March 26, 1982

Quad _____ FWL _____ FSL _____

File No. L-8549 Use DTC Location No. 18,38,6,344113

Temp. S.W. Cor. _____

[illegible]

MAR 26 8 17 AM '02

STATE ENGINEER
ROSWELL, NM

L. P. Oldaker
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A duplicate, except Section 5, shall be answered as completely and accurately as possible when this form is used as a plugging record. When this form is used as a plugging record, only Section 1(a) and Section 5 shall be completed.

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 Cloud BreckonStreet and Number star route 4City HobbsState N MWell was drilled under Permit No. L-2453 and is located in theSW 1/4 NW 1/4 NW 1/4 of Section 7 Twp. 18s Rge. 3e(B) Drilling Contractor J F BurtonLicense No. WD14Street and Number Box 42City HobbsState N MDrilling was commenced May 22-19 58Drilling was completed May 22-19 58

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 90State whether well is shallow or artesian shallowDepth to water upon completion no water

Section 2

PRINCIPAL WATER-BEARING STRATA

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

Section 3

RECORD OF CASING None

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

Section 4

RECORD OF MUDDING AND CEMENTING

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

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: _____

Cement Plugs were placed as follows:

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

FOR USE OF STATE ENGINEER ONLY

Date Received _____

MAY 27 1958

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICOPermit No. L-2453Use DonuLocation No. 18-38-7-113

...the

LOG OF WELL

[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.

Well Driller

**STATE ENGINEER OFFICE
WELL RECORD**

Section 1. GENERAL INFORMATION

Owner of well Ron Campbell (Campbell Mobile 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. 1/4 NE 1/4 NE 1/4 NW 1/4 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.

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 10 1/2 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 5.8 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			
58	130	72	Water, Sand	25 GPM

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
6 5/8			0	130	130	None	120	130

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		10 1/2			

Section 5. PLUGGING RECORD

Logging Contractor _____

Address _____

Logging Method _____

Date Well Plugged _____

Logging 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 March 17, 1982

Quad _____ FWL _____ FSL _____

Permit No. L-8663 Use DTC Location No. 18,38.7,122411

[illegible]

MAR 17 6 21 AM '02

STATE ENCLOSURE
ROSWELL, NM

Ed Clark
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A well log, 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 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENG. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Bellevue Sands Mobil Harris Inc. Owner's Well No. _____
 Street or Post Office Address 10026 Central S.E.
 City and State Albuquerque N.M. Mex. 87123

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

a. $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ of Section 7 Township 18-5 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 Del Norte Industrial Unit 2
 Subdivision, recorded in _____ County.

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

(B) Drilling Contractor 2 Buds Drilling Co License No. LEID 9410

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			
<u>43'</u>	<u>130'</u>	<u>87'</u>	<u>water sand & thin layers of sedimentary rock</u>	<u>50 GPM</u>

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
<u>5 1/2"</u>			<u>1' above</u>	<u>129'</u>	<u>131'</u>	<u>None</u>	<u>79'</u>	<u>119'</u>

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	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

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
 Temp. NE Cor.

[illegible]

STATE ENGINEER
ROSWELL, NM

Oct 8 8 34 AM '81

Chris L. Erickson
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE

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. NW 1/4 SW 1/4 NW 1/4 X 8 E 1/4 1/4 of Section 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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
36	65	29	Water Sand	35

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
4 3/4	160psi				65		35	65

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 May 22, 1987

Quad _____ FWL _____ FSL _____

File No. NO FILE NUMBER Use OBS Location No. 18.38.7.13133

[illegible]

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, 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 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE WELL RECORD

FILED JUN 1972

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. 1/4 SW 1/4 SE 1/4 NW 1/4 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 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. _____

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		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
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		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8			0	130	130	none	110	130

Section 4. RECORD OF MUDDING AND CEMENTING

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

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 June 13, 1979

Quad _____ FWL _____ FSL _____

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

[illegible]

79 JUN 13 AM 8 12
STATE ENGINEER OFFICE
ROSWELL, N.M.

L. D. Shaker
Driller

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

Appendix C
(Regulatory Correspondence)



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

December 5, 1996

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

Mr. Kevin Necaise
Sales & Safety Rep.
Lucky Services Inc. (LSI)
P.O. Box 5790
Hobbs, N.M. 88241

Reference: October 10, 1996 Inspection of Lucky Services Inc.
facility located at 6210 Lovington Hwy.

Subject: Discharge of fuel terminal sump effluent water.

Dear Mr. Necaise,

Please find enclosed the results of my recent inspection of your facility.

1. The oily water discharge found at the end of pipe southeast of your facility and being discharged into the right-of-way of Daisy street was discovered to be coming from your fuel terminal sump. This was verified by you placing a water hose in the sump and this water was noticed coming out of the end of pipe located referenced above.

This discharge was discovered on October 7, 1996 by NMOCD personnel and pictures were taken at that time. (copies enclosed for your files.) The area of discharge indicated gross hydrocarbon stains in and around the end of pipe.

2. Your facility was toured and the following sketch was made and various pictures taken. (copies attached for your files.)
3. A closing meeting was held and the following topics were discussed.
 - A. Your facility is classified as an oilfield service company under the regulatory jurisdiction of the New Mexico Oil Conservation Division (NMOCD).

Per 3104 of the NM Water Quality Control Commission (WQCC) regulations; effluent discharges of water contaminates to the ground is disallowed unless the discharge is pursuant to an approved discharge plan.

- B. Per our discussion and tour observation the wash rack sump area was observed to have non-exempt waste such as used lube oils, degreasing soaps, road grime etc, being disposed of into the sump. This type of waste would be classified as RCRA non-exempt and requires that you make a hazardous waste determination before you dispose of this material into a permitted NMOCD facility.

The practice of disposing of the RCRA non-exempt service company wash rack sump water into EPA/NMOCD type UIC Class II disposal wells (SWD's) is not allowed and you are hereby advised to stop this practice immediately.

- C. The tour identified a number of unidentified drums and buckets.
- D. Three large tanks in the back of the yard that is not properly bermed.
- E. One old trailer leaking brine water onto the ground.
- F. Fuel tanks not properly bermed.

After careful review of your facility it is my recommendation that LSI obtain a NMOCD Discharge Plan for your facility. By obtaining a NMOCD discharge plan it will bring your facility into compliance from the standpoint of protecting ground water, public health, and the environment. It will also assist you in properly handling certain solid waste and cleaning up contaminated soil found at the end of pipe discharge.

Since all discharge plan requirements are handled out of our NMOCD Santa Fe office, please contact Mr. Roger Anderson Environmental Bureau Chief concerning this issue. He may be reached at 505-827-7152 or by writing to New Mexico Oil Conservation Div. 2040 south Pacheco, Santa Fe, NM concerning this issue.

The NMOCD District I office respectfully request that you copy our office on all communications to NMOCD Santa Fe concerning this matter so as we may assist you in your permitting and clean-up actions as may be required by the NMOCD Environmental Bureau.

If you require any further assistance concerning this matter please do not hesitate to call (505-393-6161) or write.

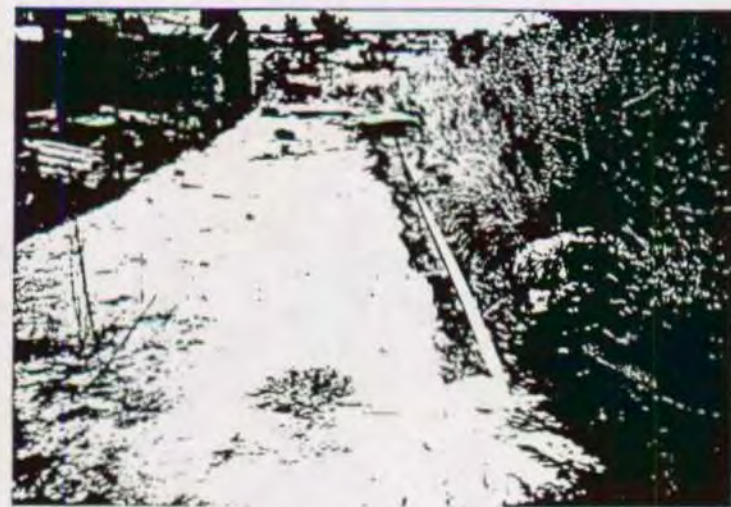
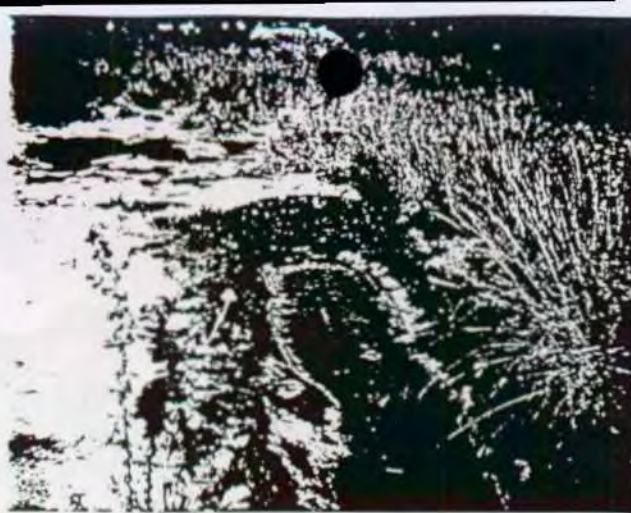
Sincerely yours,

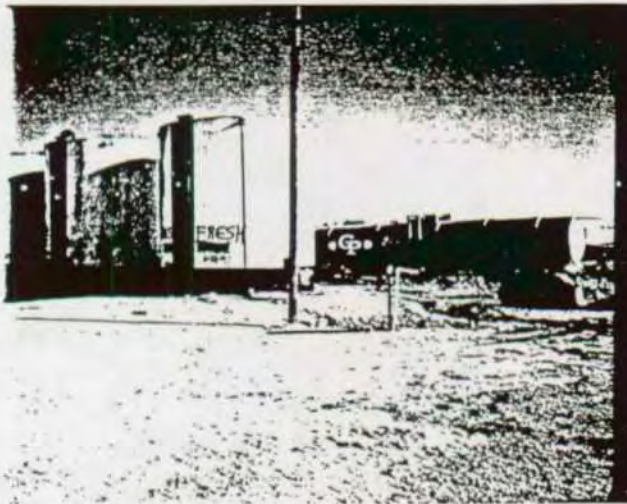
A handwritten signature in cursive script, appearing to read "Wayne Price".

Wayne Price-Environmental Engineer

cc: Jerry Sexton-NMOCD District I Supervisor
Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa Fe

attachments- 1-sketch
copies of pictures

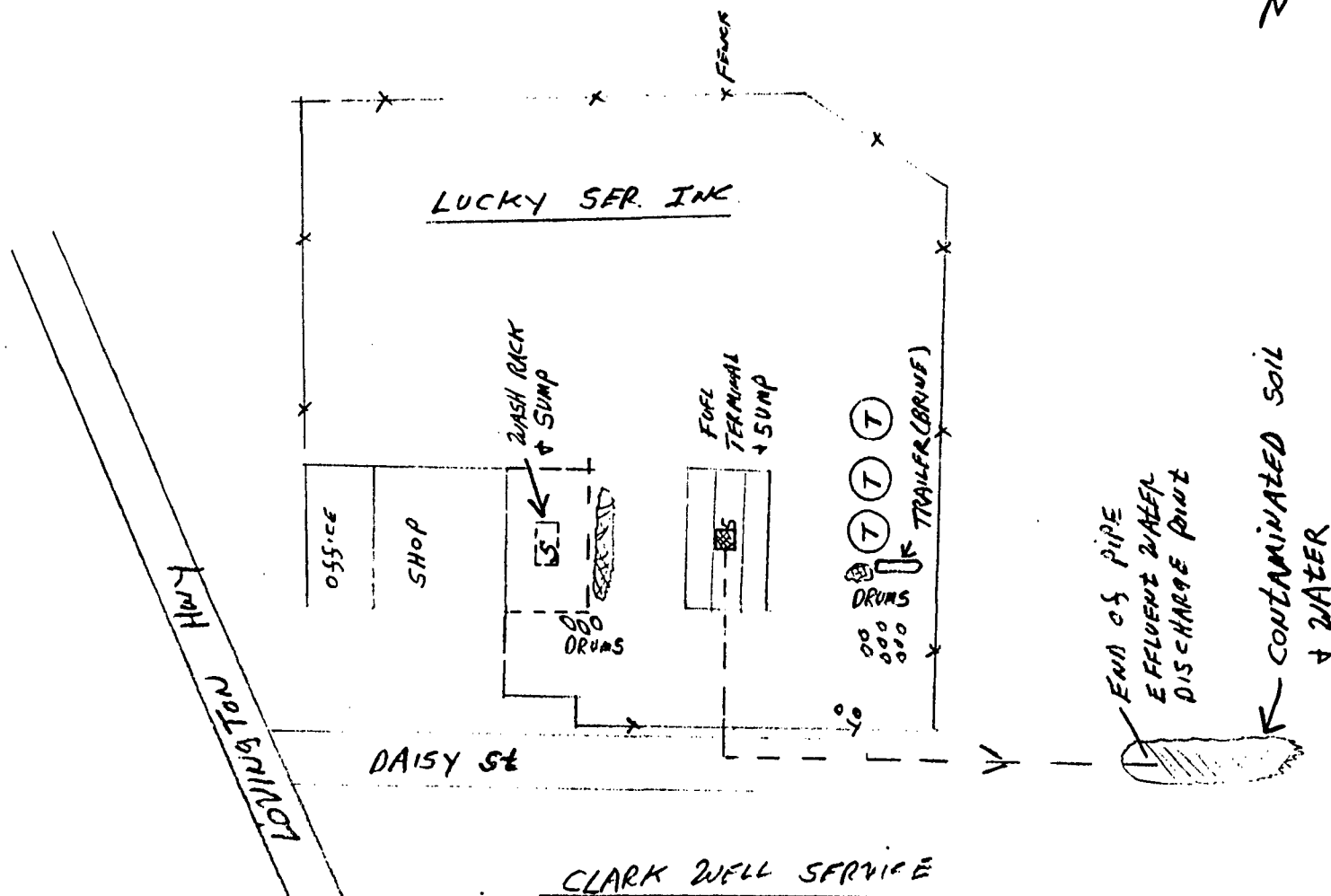




2 ORIGINALS * SENT TO SANTO SC !
 JJ

N

"COLLEGE of SW
CAMPUS"



SKETCH PLOT PLAN #1 10/10/76
 LUCKY SERVICES INC.
 6210 LOVINGTON HWY - MORRIS NM



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

December 11, 1996

CERTIFIED MAIL

RETURN RECEIPT NO. P-288-258-718

Mr. Kevin Necaise
Sales & Safety Rep.
Lucky Services Inc.
P.O.Box 5790
Hobbs, NM 88241

Re: Discharge Plan Requirement
Lucky Services Inc. Hobbs facility
Lea County, New Mexico

Dear Mr. Necaise:

Under the provision of the Water Quality Control Commission (WQCC) Regulations, and as a result of the October 10, 1996 facility inspection by the New Mexico Oil Conservation Division (OCD), the inspection report from OCD dated December 5, 1996, you are hereby notified that the filing of a discharge plan is required for the facility located at 6210 Lovington Highway, Hobbs, New Mexico.

The notification of discharge plan requirement is pursuant to Section 3104 and 3106 of the WQCC regulations. The discharge plan, defined in Section 1101.N of the WQCC regulations should cover all discharges of effluent or leachate at the facility site or adjacent to the facility site. Included in the plan should be plans for controlling spills and accidental discharges at the facility, including detection of leaks in buried underground tanks and/or piping.

Pursuant to Section 3106.A, a discharge plan should be submitted for approval to the OCD Director within 120 days of receipt of this letter. Please submit the original 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 request.

The Director shall allow a period of thirty days from the date of this letter for requesting an exemption from filing a discharge plan. Requests for an exemption shall be in writing and shall set forth the reasons why an exemption should be granted.

Mr. Kevin Necaise
Lucky Services Inc.
December 11, 1996
Page 2

A copy of the regulations have been enclosed for your convenience. Also enclosed is a copy of the OCD guideline for the preparation of discharge plans at oil & gas service companies. The guideline addresses berming of tanks, curbing and paving of process areas susceptible to leaks or spills and the disposition of any solid wastes.

The discharge plan is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of \$50 plus the flat rate of \$1380 for oil & gas service companies. The \$50 dollar filing fee is due when the discharge plan is submitted. The flat rate fee is due upon approval of the discharge plan.

Please make all checks payable to: NMED Water Quality Management and addressed to the OCD Santa Fe office.

If you have any questions, please feel free to contact Pat Sanchez at (505)-827-7156.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief
(505)-827-7152

RCA/pws

enclosure-application form, guidelines, and WQCC regulations.

xc: Mr. Wayne Price - OCD Hobbs, w/o enclosure

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal

Time 9:20AM

Date 12-11-96

Originating Party

Other Parties

Mr. Kevin Neraise - w/Lucky
Services.

Pat Sanchez - CCD

Subject

Lucky Services - Habbs yard.

Discussion

① Discharge ceased the day Wayne price went by the facility on October 10, 1996. (To above ground line area.) Kevin said he stopped it at the direction of Wayne.

② Kevin said that within the next day or so they excavated the contaminated soil and placed it within the facility on plastic.

③ He is not sure if his company has received the inspection report from Wayne dated Dec. 5, 1996.

Conclusions or Agreements

① I let Mr. Neraise know that a discharge plan requirement letter would be coming.

② If they had any questions to give us (CCD) a call.

Distribution File, Wayne Price.

Signed

Richard W. Price

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal

Time 8:07 AM

Date 12-11-96

Originating Party

Other Parties

Pat Sanchez - OCD

Wayne Price - OCD

Subject

Lucky Well Service. (Hobbs)

Discussion

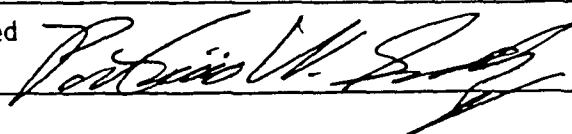
- ① Asked If the discharge had ceased - Wayne not sure. (Lucky has not officially notified wayne in writing that the discharge has ceased.)
- ② No Remedial proposal received yet (by Hobbs or Santa Fe.)
- ③ Wayne, First went out to Lucky on Oct. 7, 1996.
- Wayne inspected the Facility on Oct. 10, 1996.
- Sent inspection report on December 5, 1996.
*Kevin Necaize - phone no. 392-1547. w/Lucky.

Conclusions or Agreements

- ① OCD Santa Fe to send discharge Plan requirement letter.
- ② Let Wayne know that I am going to phone Mr. Necaize w/Lucky.

Distribution File, Wayne Price

Signed



Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505
Attention: Mr. Roger Anderson
Mr. Pat Sanchez

April 18, 1997

Dear Sirs:

Pursuant to 20 NMAC 6.2.3106.A, Lucky Services Inc. requests an extension on the time allotted to submit a discharge plan. We need additional time to gather the data to complete the discharge plan. If it meets with your approval, we will submit a completed discharge plan on or before May 15, 1997.

Lucky Services, Inc., is making every effort to come into compliance with OCD guidelines in a timely fashion, and appreciates your cooperation in granting us the needed time to provide the discharge plan.

Sincerely,

Kevin Necaise
Sales & Safety Representative
Lucky Services, Inc.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

April 28, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-802

Mr. Kevin Necaise
Lucky Services Inc.
P.O.Box 5790
Hobbs, NM 88241

RE: Temporary Authorization to Discharge - Hobbs Facility
Lucky Services Inc.
Lea County, New Mexico

Dear Mr. Necaise:

The New Mexico Oil Conservation Division has received the request dated April 18, 1997 from Lucky Services Inc. for temporary authorization to discharge without an approved discharge plan for 30 days while the discharge plan application prepared.

Pursuant to Water Quality Control Commission (WQCC) Regulations 3106.B, and for good cause shown, Lucky Services Inc. is authorized to discharge without an approved discharge plan until May 19, 1997 for the following facility:

- Lucky Services Inc. , 6210 Lovington Highway, Hobbs, New Mexico.

Please be advised this authorization does not relieve Lucky Services Inc. of liability should the operations of this facility result in pollution of surface waters, ground waters or the environment. Further, OCD authorization does not relieve Lucky Services Inc. from responsibility for compliance with other federal, state, and local permitting requirements, rules, and regulations.

Sincerely,

Roger C. Anderson
Bureau Chief
Environmental Bureau - OCD

RCA/pws

c: Mr. Wayne Price, Environmental Engineer - Hobbs OCD District Office



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

April 28, 1997

CERTIFIED MAIL

RETURN RECEIPT NO. P-288-258-802

Mr. Kevin Necaise
Lucky Services Inc.
P.O.Box 5790
Hobbs, NM 88241

**RE: Temporary Authorization to Discharge - Hobbs Facility
Lucky Services Inc.
Lea County, New Mexico**

Dear Mr. Necaise:

The New Mexico Oil Conservation Division has received the request dated April 18, 1997 from Lucky Services Inc. for temporary authorization to discharge without an approved discharge plan for 30 days while the discharge plan application prepared.

Pursuant to Water Quality Control Commission (WQCC) Regulations 3106.B, and for good cause shown, Lucky Services Inc. is authorized to discharge without an approved discharge plan until May 19, 1997 for the following facility:

- **Lucky Services Inc. , 6210 Lovington Highway, Hobbs, New Mexico.**

Please be advised this authorization does not relieve Lucky Services Inc. of liability should the operations of this facility result in pollution of surface waters, ground waters or the environment. Further, OCD authorization does not relieve Lucky Services Inc. from responsibility for compliance with other federal, state, and local permitting requirements, rules, and regulations.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roger C. Anderson".

Roger C. Anderson
Bureau Chief
Environmental Bureau - OCD

RCA/pws

c: Mr. Wayne Price, Environmental Engineer - Hobbs OCD District Office

P 288 251 802

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to <i>Chucky —</i>	
Street & Number <i>Extension to May 19, 1991</i>	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995



6210 LOVINGTON HIGHWAY
P.O. BOX 5790
HOBBS, NM 88240

OFFICE: (505) 392-1547
FAX: (505) 392-8788

DATE:

4-18-97

TO:

Roger Anderson

COMPANY:

State of New Mexico O.C.D.

FROM:

Kevin Heaize

PAGE

1

OF

2

PAGES

COMMENTS:

Please call if any questions - 392-1547



Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505
Attention: Mr. Roger Anderson
Mr. Pat Sanchez

April 18, 1997

Dear Sirs:

Pursuant to 20 NMAC 6.2.3.106.A, Lucky Services Inc. requests an extension on the time allotted to submit a discharge plan. We need additional time to gather the data to complete the discharge plan. If it meets with your approval, we will submit a completed discharge plan on or before May 15, 1997.

Lucky Services, Inc., is making every effort to come into compliance with OCD guidelines in a timely fashion, and appreciates your cooperation in granting us the needed time to provide the discharge plan.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kevin Nccaise", is written over a horizontal line.

Kevin Nccaise
Sales & Safety Representative
Lucky Services, Inc.

Pat Sanchez

From: Wayne Price
Sent: Friday, April 18, 1997 9:54 AM
To: Pat Sanchez
Subject: Registered: Wayne Price

Your message

To: Wayne Price
Subject: LUCKY SERVICES - DISCHARGE PLAN REQUIREMENT.
Sent: 4/18/97 7:51:00 AM

was read on 4/18/97 9:54:00 AM

Pat Sanchez

From: Roger Anderson
Sent: Friday, April 18, 1997 10:51 AM
To: Pat Sanchez
Subject: Read: LUCKY SERVICES - DISCHARGE PLAN REQUIREMENT.
Importance: High

Your message

To: Roger Anderson
Cc: Wayne Price
Subject: LUCKY SERVICES - DISCHARGE PLAN REQUIREMENT.
Sent: 4/18/97 7:51:00 AM

was read on 4/18/97 10:51:00 AM

Pat Sanchez

From: System Administrator
Sent: Friday, April 18, 1997 7:51 AM
To: Roger Anderson
Cc: Wayne Price
Subject: Delivered: LUCKY SERVICES - DISCHARGE PLAN REQUIREMENT.
Importance: High

Your message

To: Roger Anderson

Cc: Wayne Price
Subject: LUCKY SERVICES - DISCHARGE PLAN REQUIREMENT.
Sent: 4/18/97 7:51:17 AM

was delivered to the following recipient(s):

Roger Anderson on 4/18/97 7:51:20 AM
Wayne Price on 4/18/97 7:51:20 AM

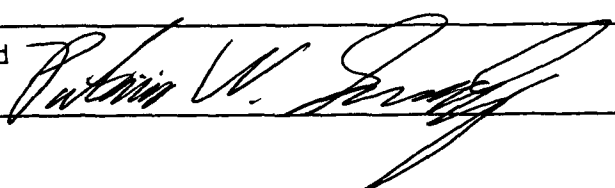
Pat Sanchez

From: Pat Sanchez
Sent: Friday, April 18, 1997 7:51 AM
To: Roger Anderson
Cc: Wayne Price
Subject: LUCKY SERVICES - DISCHARGE PLAN REQUIREMENT.
Importance: High

Roger, on December 11, 1996 the OCD required that Lucky Services submit a discharge plan application. The return receipt indicates that they recieved the notification of "Discharge Plan" requirement on December 17, 1996. Based on the 120 day period it appears that they (as of yesterday April 17, 1997) have missed the 120 day deadline to submit a discharge plan.

Thanks!

MEMORANDUM OF MEETING OR CONVERSATION

<input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Personal	Time 10:15 AM	Date 1-8-97
<u>Originating Party</u>		<u>Other Parties</u>
Pat Sanchez - OCD		Greg Pashia - USEPA - Region 6 214-665-2287 (RCRA)
<u>Subject</u> Fall/Winter 1996 RCRA Inspections in South East NM. (Lucky Services)		
<u>Discussion</u> Mr. Pashia indicated that they had went to inspect various sites and had notified (by telephone) Roger Anderson and Jerry Sexton before the inspections. I asked him about Lucky Services Inc. and let him know that OCD would require them to submit a discharge Plan, he said he did not think that their inspection had any major RCRA problems. Greg did mention that M&I drilling fluids did have RCRA problems in terms of improper labelling/storage of waste.		
<u>Conclusions or Agreements</u>		
Mr. Pashia will send OCD (i.e. Roger Anderson) copies of the inspection reports for the sites they visited. He was also concerned about Parabos site security.		
<u>Distribution</u> File, Roger Anderson.	Signed 	



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

December 11, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-718

Mr. Kevin Necaise
Sales & Safety Rep.
Lucky Services Inc.
P.O.Box 5790
Hobbs, NM 88241

Re: Discharge Plan Requirement
Lucky Services Inc. Hobbs facility
Lea County, New Mexico

Dear Mr. Necaise:

Under the provision of the Water Quality Control Commission (WQCC) Regulations, and as a result of the October 10, 1996 facility inspection by the New Mexico Oil Conservation Division (OCD), the inspection report from OCD dated December 5, 1996, you are hereby notified that the filing of a discharge plan is required for the facility located at 6210 Lovington Highway, Hobbs, New Mexico.

The notification of discharge plan requirement is pursuant to Section 3104 and 3106 of the WQCC regulations. The discharge plan, defined in Section 1101.N of the WQCC regulations should cover all discharges of effluent or leachate at the facility site or adjacent to the facility site. Included in the plan should be plans for controlling spills and accidental discharges at the facility, including detection of leaks in buried underground tanks and/or piping.

Pursuant to Section 3106.A, a discharge plan should be submitted for approval to the OCD Director within 120 days of receipt of this letter. Please submit the original 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 request.

The Director shall allow a period of thirty days from the date of this letter for requesting an exemption from filing a discharge plan. Requests for an exemption shall be in writing and shall set forth the reasons why an exemption should be granted.

Mr. Kevin Necaise
Lucky Services Inc.
December 11, 1996
Page 2

A copy of the regulations have been enclosed for your convenience. Also enclosed is a copy of the OCD guideline for the preparation of discharge plans at oil & gas service companies. The guideline addresses berming of tanks, curbing and paving of process areas susceptible to leaks or spills and the disposition of any solid wastes.

The discharge plan is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of \$50 plus the flat rate of \$1380 for oil & gas service companies. The \$50 dollar filing fee is due when the discharge plan is submitted. The flat rate fee is due upon approval of the discharge plan.

Please make all checks payable to: **NMED Water Quality Management** and addressed to the OCD Santa Fe office.

If you have any questions, please feel free to contact Pat Sanchez at (505)-827-7156.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief
(505)-827-7152

RCA/pws

enclosure-application form, guidelines, and WQCC regulations.

xc: Mr. Wayne Price - OCD Hobbs, w/o enclosure

P 288 258 718

US Postal Service	
Receipt for Certified Mail	
No Insurance Coverage Provided.	
Do not use for International Mail (See reverse)	
Sent to Lucky Services - Mr. Necaise	
Street & Number DP. REG. LETTER	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

MEMORANDUM OF MEETING OR CONVERSATION

<input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Personal	Time 9:20am	Date 12-11-96
<u>Originating Party</u>		<u>Other Parties</u>
Mr. Kevin Necaize - w/Lucky Services.		Pat Sanchez - CCD
<u>Subject</u> Lucky Services - Hobbs yard.		

Discussion

① Discharge ceased the day Wayne Price went by the facility on October 10, 1996. (To above ground line area.) Kevin said he stopped it at the direction of Wayne.

② Kevin said that within the next day or so they excavated the contaminated soil and placed it within the facility on plastic.

③ He is not sure if his company has received the inspection report from Wayne dated Dec. 5, 1996.

Conclusions or Agreements

① I let Mr. Necaize know that a discharge plan requirement letter would be coming.

② If they had any questions to give us (CCD) a call.

Distribution File, Wayne Price.

Signed

Robert W. [Signature]

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal

Time 8:07 AM

Date 12-11-96

Originating Party

Other Parties

Pat Sanchez - OCD

Wayne Price - OCD

Subject Lucky Well Service. (Hobbs)

Discussion

- ① Asked If the discharge had ceased -
- Wayne not sure. (Lucky Has not officially notified wayne in writing that the discharge has ceased.)
- ② No Remedial proposal received yet (by Hobbs or Santa Fe.)
- ③ Wayne, First went out to Lucky on Oct. 7, 1996.
- Wayne inspected the Facility on Oct. 10, 1996.
- Sent inspection report on December 5, 1996.
*Kevin Necaize - phone no. 392-1547. w/Lucky.

Conclusions or Agreements

- ① OCD Santa Fe to send discharge Plan requirement letter.
- ② Let Wayne know that I am going to phone Mr. Necaize w/Lucky.

Distribution File, Wayne Price

Signed

Robert W. Price



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

December 5, 1996

Mr. Kevin Necaise
Sales & Safety Rep.
Lucky Services Inc. (LSI)
P.O. Box 5790
Hobbs, N.M. 88241

RECEIVED

DEC 10 1996

Environmental Bureau
Oil Conservation Division

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

Reference: October 10, 1996 Inspection of Lucky Services Inc.
facility located at 6210 Lovington Hwy.

Subject: Discharge of fuel terminal sump effluent water.

Dear Mr. Necaise,

Please find enclosed the results of my recent inspection of your facility.

1. The oily water discharge found at the end of pipe southeast of your facility and being discharged into the right-of-way of Daisy street was discovered to be coming from your fuel terminal sump. This was verified by you placing a water hose in the sump and this water was noticed coming out of the end of pipe located referenced above.

This discharge was discovered on October 7, 1996 by NMOCD personnel and pictures were taken at that time. (copies enclosed for your files.) The area of discharge indicated gross hydrocarbon stains in and around the end of pipe.

2. Your facility was toured and the following sketch was made and various pictures taken. (copies attached for your files.)
3. A closing meeting was held and the following topics were discussed.
 - A. Your facility is classified as an oilfield service company under the regulatory jurisdiction of the New Mexico Oil Conservation Division (NMOCD).

Per 3104 of the NM Water Quality Control Commission (WQCC) regulations; effluent discharges of water contaminates to the ground is disallowed unless the discharge is pursuant to an approved discharge plan.

- B. Per our discussion and tour observation the wash rack sump area was observed to have non-exempt waste such as used lube oils, degreasing soaps, road grime etc, being disposed of into the sump. This type of waste would be classified as RCRA non-exempt and requires that you make a hazardous waste determination before you dispose of this material into a permitted NMOCD facility.

The practice of disposing of the RCRA non-exempt service company wash rack sump water into EPA/NMOCD type UIC Class II disposal wells (SWD's) **is not allowed and you are hereby advised to stop this practice immediately.**

- C. The tour identified a number of unidentified drums and buckets.
- D. Three large tanks in the back of the yard that is not properly bermed.
- E. One old trailer leaking brine water onto the ground.
- F. Fuel tanks not properly bermed.

After careful review of your facility it is my recommendation that LSI obtain a NMOCD Discharge Plan for your facility. By obtaining a NMOCD discharge plan it will bring your facility into compliance from the standpoint of protecting ground water, public health, and the environment. It will also assist you in properly handling certain solid waste and cleaning up contaminated soil found at the end of pipe discharge.

Since all discharge plan requirements are handled out of our NMOCD Santa Fe office, please contact Mr. Roger Anderson Environmental Bureau Chief concerning this issue. He may be reached at 505-827-7152 or by writing to New Mexico Oil Conservation Div. 2040 south Pacheco, Santa Fe, NM concerning this issue.

The NMOCD District I office respectfully request that you copy our office on all communications to NMOCD Santa Fe concerning this matter so as we may assist you in your permitting and clean-up actions as may be required by the NMOCD Environmental Bureau.

If you require any further assistance concerning this matter please do not hesitate to call (505-393-6161) or write.

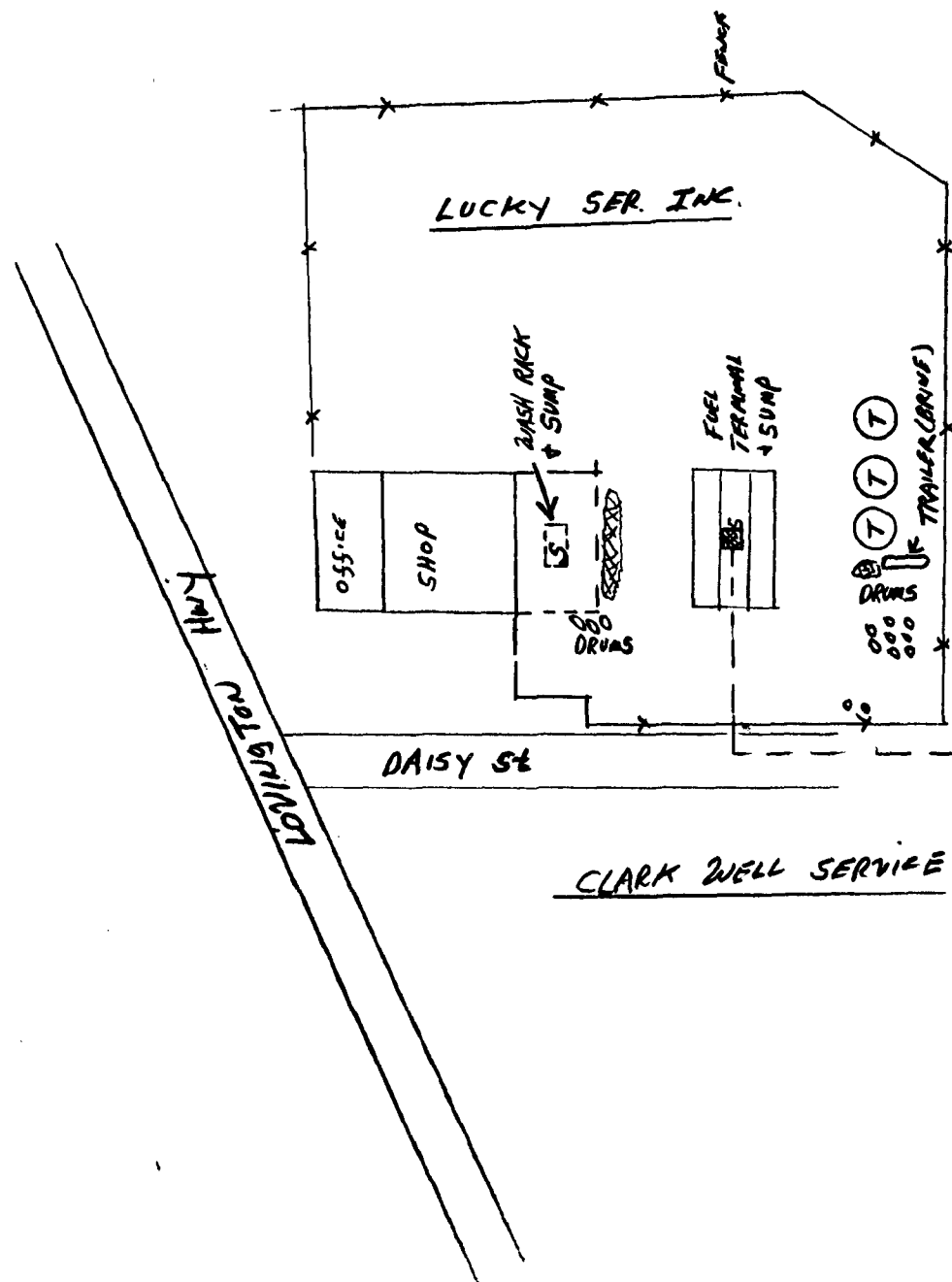
Sincerely yours,

A handwritten signature in cursive script that reads "Wayne Price".

Wayne Price-Environmental Engineer

cc: Jerry Sexton-NMOCD District I Supervisor
Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa Fe

attachments- 1-sketch
copies of pictures



N ↑

"COLLEGE of SW
CAMPUS"

VACANT FIELD

END OF PIPE
EFFLUENT WATER
DISCHARGE POINT
← CONTAMINATED SOIL
+ WATER

SKETCH PLOT PLAN #1 10/10/76
LUCKY SERVICES INC.
6210 LOVINGTON HWY - HOBBS NM
BY: DW PRICE - NAKED / NO SCALE





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

RECEIVED

DEC 10 1996

Environmental Bureau
Oil Conservation Division



10/7/96 - Looking EAST "Lucky Well Service" by OCD



10/10/96 - Looking West -Wash Bay "Lucky Well Service" by OCD

**OIL AND GAS SERVICE INDUSTRY
COMPLIANCE EVALUATION INSPECTION
REPORT**

OF

**LUCKY SERVICES, INC.
HOBBS, NEW MEXICO**

RECEIVED

MAY 14 1997

Environmental Bureau
Oil Conservation Division

SUBMITTED BY:

**A. T. KEARNEY, INC.
KEARNEY/CENTAUR DIVISION
500 NORTH AKARD STREET, SUITE 4170
DALLAS, TEXAS 75201**

SUBMITTED TO:

**MS. RENA McCLURG
REGIONAL PROJECT OFFICER
U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202-2733**

IN RESPONSE TO:

**EPA CONTRACT NO. 68-W4-0006
WORK ASSIGNMENT NO. R06054**

May 5, 1997

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1.0 EXECUTIVE SUMMARY

A. T. Kearney was tasked to support the Environmental Protection Agency (EPA) Region 6, in conducting a Compliance Evaluation Inspection (CEI) and collecting samples at Lucky Services, Inc., in Hobbs, New Mexico, under the RCRA Enforcement, Permitting and Assistance (REPA) Contract No. 68-W4-0006, Work Assignment No. R06054. The inspection was conducted under the authority of Section 3007 of the Resource Conservation and Recovery Act (RCRA), as amended.

The EPA Region 6, RCRA Enforcement Branch, undertook an initiative to gather information on Oil and Gas Service Industry facilities with the ultimate goal of selecting facilities for RCRA Compliance Evaluation Inspections (CEIs) and determining compliance with RCRA regulations. The CEI was conducted to gather enough information to allow RCRA Enforcement personnel to assess the facility compliance with RCRA regulations. The CEI included the collection of waste samples for analysis and reporting of concentration levels of contaminants for corrosivity and ignitability, and in selected instances for the toxicity characteristic leaching procedure (TCLP) for metals. In addition, the visual inspections of facility waste management practices were documented via photographs and field logbooks.

An unannounced RCRA CEI was conducted at Lucky Services, Inc. (Lucky), located at 6210 Lovington Highway, Hobbs, New Mexico, 88240, on November 19, 1996. EPA Region 6 and A.T. Kearney staff participated in the inspection of the facility. During the tour of the facility, the inspection team surveyed the maintenance areas and the property within the facility fence. As part of the tour, the team inspected the vehicle maintenance area, an active drum storage area and a waste drum storage area, a water storage area, two frac tanks, and seven truck tanks.

Based on observed site conditions, samples were collected from three areas: the maintenance area sump, a truck tank, and a vac truck tank. After reviewing information from the Material Safety Data sheets (MSDS) of the materials reported to be contained in the truck tanks and sump, the EPA decided to analyze the material in the two truck tanks for the RCRA hazardous waste characteristics of corrosivity (D002) and ignitability (D001), and the sump material for RCRA hazardous waste characteristics of corrosivity and ignitability as well as TCLP metals. Samples were analyzed by the EPA laboratory in Houston, Texas.

Analytical results did not detect the characteristics of corrosive or ignitable for the samples collected.

DISCLAIMER

This report was prepared for the U.S. Environmental Protection Agency (EPA) Region 6, by A. T. Kearney, Inc., Kearney/Centaur Division, in fulfillment of Contract No. 68-W4-0006, Work Assignment No. R06054. The opinions, findings, and conclusions, expressed herein are those of the contractors and not necessarily those of the EPA or cooperating agencies. Mention of company or product names is not to be considered an endorsement by the EPA.

This document is intended to assist EPA personnel in determining if wastes generated by Oil and Gas Service Industry facilities, are subject to regulation pursuant to 40 CFR 261. The EPA will not necessarily limit enforcement actions or other requirements to those that correspond with the recommendations set forth herein. EPA personnel must exercise their technical judgement in using the CEI report as well as other relevant information, in determining what enforcement or other requirements to include in a permit or an order.

2.0 INTRODUCTION

A. T. Kearney was tasked to support the Environmental Protection Agency Region 6, in conducting a Compliance Evaluation Inspection (CEI) and collecting samples at Lucky Services, Inc., located in Hobbs, New Mexico in support of the RCRA Enforcement, Permitting and Assistance (REPA) Contract 68-W4-0006, Work Assignment No. R06054. The inspection was conducted under the authority of Section 3007 of the Resource Conservation and Recovery Act (RCRA), as amended. This narrative report with attachments, presents the results of the inspection.

2.1 Purpose of the CEI

The EPA Region 6, RCRA Enforcement Branch, undertook an initiative to gather information on Oil and Gas Service Industry facilities with the ultimate goal of selecting facilities for RCRA Compliance Evaluations Inspections (CEIs) and determining compliance with RCRA regulations.

A CEI was conducted at Lucky Services, Inc. to gather enough information to allow RCRA Enforcement personnel to assess facility compliance with the RCRA regulations. The CEI included the collection of waste samples for analysis and reporting of levels of concentrations of contaminants for corrosivity (D002), ignitability (D001), and the Toxicity Characteristic Leaching Procedure (TCLP) analysis for metals.

In addition, the visual inspection of the facility waste management practices was documented via photographs and field logbooks. Available regulatory and facility files and records were obtained and reviewed as required to determine regulatory compliance.

2.2 Participants

Lucky Services, Inc. was represented by Mr. Dwayne Taylor, owner and operator. The EPA CEI inspection team consisted of: Mr. Greg Pashia, and Mr. William Rhotenberry, Environmental Protection Agency (EPA), Hazardous Waste Enforcement Branch, Region 6; Mr. Dan Irvin, and Ms. Cathy Dare, A. T. Kearney, Inc.; and Mr. Wallace O'Rear, Metcalf & Eddy, Inc. (M&E). Not all participants were present during all phases of the inspection.

2.3 Inspection Procedures

An unannounced RCRA CEI was conducted at Lucky Services, Inc. (Lucky) on November 19, 1996. Upon arrival at the facility at 1210, the inspection team was greeted by the receptionist and told that the manager would not be back from lunch until 1400. The inspection team waited on-site for the manager to return. Mr. Dwayne Talyor returned to the facility at approximately 1330 and was introduced to the inspection team as the owner and operator. The EPA inspector's credentials were presented and the purpose of the inspection and procedures were explained to Mr. Taylor.

The inspection began with a discussion on the types of services Lucky provides to the oil and gas industry. Lucky is a supplier whose primary products are water and water mixtures or solutions. After discussing the types of materials Lucky supplies to its customers, the inspection team participated in a tour of the facility.

Mr. Taylor led the tour for Mr. Rhotenberry, Ms. Dare, and Mr. O'Rear. During the tour, Mr. Taylor continued to explain the facility operations as well as the facility layout (refer to Photographs R₀P₁ and R₀P₂).

The facility tour began at the north side of the main building and proceeded counter-clockwise around the facility yard. The first area the team observed was the outdoor machine shop that abuts the south side of the building. The outdoor machine shop includes a blind outdoor sump. The maintenance area is paved and drains into the sump. The maintenance shop contains a parts cleaner and an ice machine. Lucky's large trucks and pick-up trucks are serviced off-site at PJ's Oil and Filter Crusher Company. Lucky maintains a soap dispenser for washing the company vehicles within the maintenance area. A waste materials area is located in the northeast corner of the maintenance area (refer to Photographs R₁P₁, R₁P₂, R₁P₃, R₁P₄).

The team proceeded to the tank rack area, located north of the maintenance area. The inspection team observed open 55-gallon drums containing antifreeze, corrosion inhibitor, and soap on the tank rack (refer to Photographs R₁P₅, and R₁P₆). North of the tank rack area is the Waste Drum Storage Area where empty drums are stored prior to being picked up for disposal (refer to Photographs R₀P₄, R₁P₇, and R₁P₈).

The inspection team proceeded to observe the water storage tanks, the tank trucks, and the half frac tanks that were located along the north and west sides of the yard. The water tanks contained fresh water, salt water (brine water) and water that had been mixed with clay stabilizer (noted as KCl on the tank and MSDS sheets). The tank trucks are used as reverse pit tanks and hold approximately 110, 55-gallon drums. One of the half frac tanks contained production water that was originally in one of the tank trucks that was needed for a delivery (refer to Photographs R₀P₃, R₁P₉, R₁P₁₀, R₁P₁₁, R₁P₁₂, R₁P₁₃, and R₁P₁₄). Tank trucks that are

connected to truck engines or cabs were located along the south side of the yard. Two of the tank trucks located along the south side of the yard contained liquids.

Based on the observed site conditions, samples were collected from three areas: the maintenance area sump, a truck tank, and a vac truck tank. After reviewing information from the Material Safety Data sheets (MSDS) of the materials reported to be contained in the truck tanks and sump, the EPA decided to analyze the material in the two truck tanks for the RCRA hazardous waste characteristics of corrosivity (D002) and ignitability (D001), and the sump material for RCRA hazardous waste characteristics of corrosivity and ignitability as well as TCLP metals. The EPA inspectors offered the facility the option to obtain a split sample of each sample collected, and Lucky representatives accepted.

After the sampling activities were completed and Lucky representatives had been provided their split-samples, a close-out meeting was conducted with all team members present. During the closeout meeting, the days activities and findings were summarized by EPA.

3.0 FACILITY DESCRIPTION

3.1 Facility Location and Ownership

Lucky is a privately owned facility and is owned and operated by Mr. Dwayne Taylor. The Lucky facility is located at 6210 Lovington Highway, in Lea County, Hobbs, New Mexico, 88240, telephone number (505) 392-1547 (Figure 1). The facility is located in a rural area with undeveloped land to the north. The Lucky facility consists of a main building that houses the facility offices and equipment and a yard that is enclosed by a fence (Figure 2). Adjacent properties exist to the north, east and west that have been developed for light industrial and commercial activities.

The Lucky facility does not have an EPA generator's identification number.

3.2 Facility Operations and Waste Management Practices

Mr. Rhotenberry requested that Mr. Taylor explain what types of services Lucky provides to the oil and gas industry. Mr. Taylor explained that Lucky primarily supplies fresh water mixed with client specified additives. The additives are placed in the trucks along with fresh water. The mixture is allowed to "slosh" around during transport so that the additive and water mix. Lucky primarily adds corrosion inhibitors, soaps, surfactants, or packer fluid. They also manage antifreeze, motor oil, transmission fluid, and diesel fuel on site to maintain their truck fleet. Any left over water mixtures are transported to an Oil Conservation District (OCD) permitted disposal facility such as Lucky Alliance or another customer specified OCD approved facility. If the materials sold are viscous, Lucky personnel will rinse the trucks out and "supersuck" the materials out of the trucks into the little vac truck for transport to the Lucky Alliance disposal facility in the supersucker little vac truck. Mr. Taylor owns one- third of the Lucky Alliance disposal facility.

Lonestar hauls Lucky's empty 55-gallon drums away for disposal. Any tools used to transport and off-load the materials are washed down at the Lucky facility and the wash water is allowed to drain into the facility machine shop blind outdoor sump. All maintenance area liquids drain into the sump. The maintenance area floor is cleaned twice a week, and the wash water drains into the sump. Lucky also has a soap dispenser for washing the company vehicles, which are cleaned in the maintenance shop. The maintenance shop also contains a parts cleaner and an ice machine. The overflow from the ice machine also drains into the sump. The sump has a capacity of approximately twenty-five, 55- gallon drums.

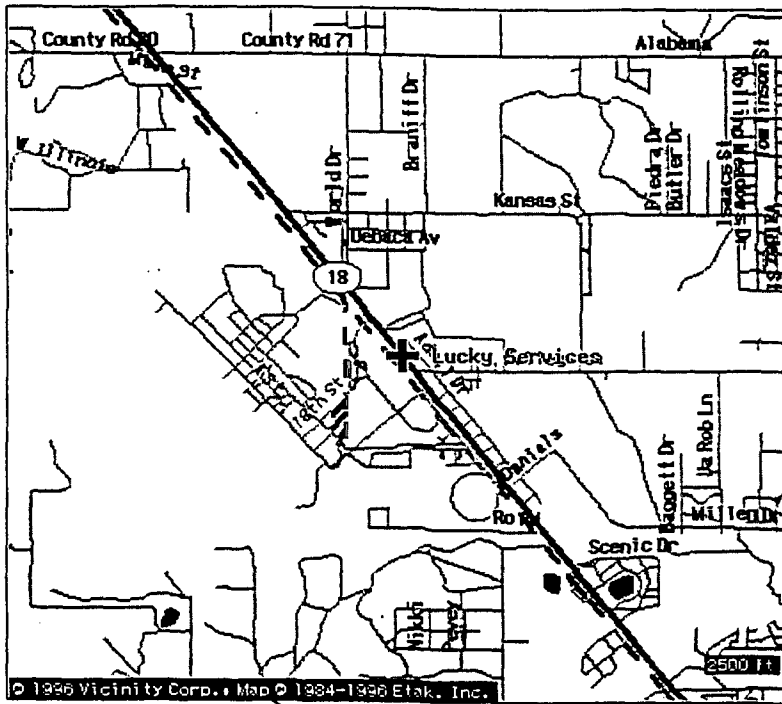
The Waste Drum Storage Area where empty drums are stored prior to being picked up for disposal is located in the northeast corner of the yard. The drums being stored in the waste drum storage area totaled 27 drums during the inspection. Of these drums, two were labeled

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Site Location Map: source www.vicinity.com
6600 Lovington Hwy, Hobbs, New Mexico 88240

Lucky Services

6600 Lovington Hwy, Hobbs, NM 88240



Lucky Services

6600 Lovington Hwy, Hobbs, NM 88240

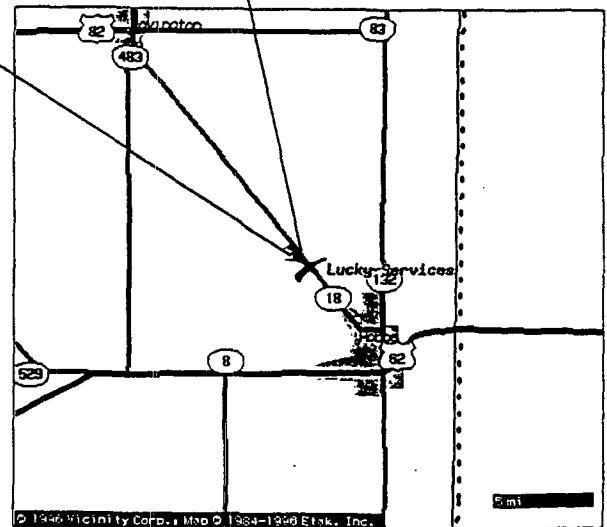
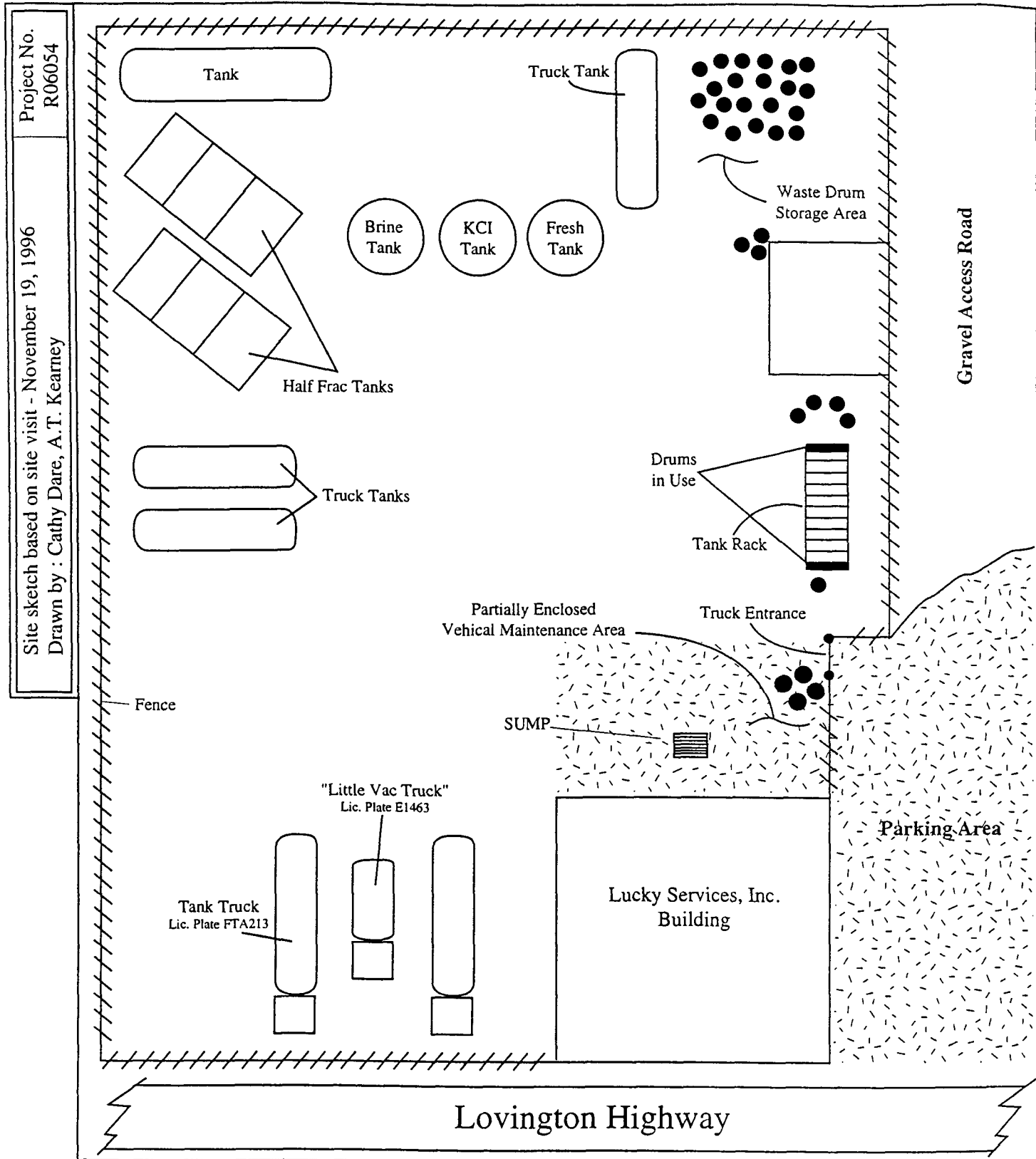


Figure 1
Site Location Map
Lucky Services
Hobbs, New Mexico

A.T. Kearney
REPA Contract
Contract No. 68-W4-0006



A.T. Kearney 9/1637B/cc

Figure 2
Site Layout Map
Lucky Services, Inc.
Hobbs, New Mexico

3-3

Legend:
● 55 Gallon Drum
▨ Asphalt

REPA Contract
Contract No. 68-W4-0006

as previously containing drip gas. Three other drums were identified as being labeled as previously containing naphtha, an unknown acid, and used motor oil (refer to Photographs R₁P₁₆, R₁P₁₇, R₁P₁₈, R₁P₁₉, R₁P₂₀, and R₁P₂₁). The drums in this area have reportedly been collecting for a period of at least 6 months.

The tank trucks and the half frac tanks manage materials that have the potential to be wastes. One of the half frac tanks contained production water that was originally in one of the tank trucks that was needed for a delivery (refer to Photographs R₀P₃, R₁P₉, R₁P₁₀, R₁P₁₁, R₁P₁₂, R₁P₁₃, and R₁P₁₄). Two of the tank trucks located on the south side of facility contained liquids. One tank truck with license plate FTA213 contained approximately forty, 55-gallon drums of remaining water mixture from an original load of 130, 55-gallon drums of water and one 55-gallon drum of packer fluid. Eighty drums were provided to the client and the remaining roughly 40 drums was requested by the client to be held and delivered back to the job site the next day. The small vac tank truck with license plate E1463 contained approximately twenty, 55-gallons drums of sump water from the maintenance sump that had been recently pumped out so that the material could be transported to the Lucky Alliance disposal facility (refer to Photograph R₁P₁₅).

MEASUREMENT CONVERSIONS

INCH CM

IF YOU KNOW MULTIPLY TO FIND
BY

LENGTH

inches	2.540	centimeters
feet	30.480	centimeters
yards	0.914	meters
miles	1.609	kilometers
millimeters	0.039	inches
centimeters	0.393	inches
meters	3.280	feet
meters	1.093	yards
kilometers	0.621	miles

WEIGHT

ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.204	pounds

VOLUME

fluid ounces	29.573	milliliters
pints	0.473	liters
quarts	0.946	liters
gallons (U.S.)	3.785	liters
milliliters	0.033	fluid ounces
liters	1.056	quarts
liters	0.264	gallons (U.S.)

TEMPERATURE

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times .555$$

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$$

Inches	Decimals of foot	Milli- meters
1/16	.0052	1.5875
1/8	.0104	3.1750
3/16	.0156	4.7625
1/4	.0208	6.3500
5/16	.0260	7.9350

3/8	.0313	9.5250
1/2	.0417	12.7000
5/8	.0521	15.8750
3/4	.0625	19.0500
7/8	.0729	22.2250

1"	.0833	25.400
2"	.1667	50.800
3"	.2500	76.200
4"	.3333	101.60
5"	.4167	127.00

6"	.5000	152.40
7"	.5833	177.80
8"	.6667	203.20
9"	.7500	228.60
10"	.8333	254.00
11"	.9167	279.40
1 foot	1.0000	304.80

"Rite in the Rain"
ALL-WEATHER WRITING PAPER



Name Lucky-Well Service, Inc.
4210 Lovington Highway
 Address PO Box 5790
Hobbs, New Mexico 88241
 Phone 505-392-1547
Oil and Gas Inspections
 Project Mr. Greg Pashia
US EPA Region 6 214/665-8314
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

"Rite in the Rain" - a unique all-weather writing surface created to shed water and to enhance the written image. Makes it possible to write sharp, legible field data in any kind of weather.

a product of

J. L. DARLING CORPORATION
TACOMA, WA 98421-3696 USA

[illegible]

—

11/17/96

Lucky Services

1010 Photo of facility looking
South South Photo #9

Photo #10 Photo of the
Back of the facility looking
South

Photo #11 Looking North
Northeast at Holding Tanks

Photo #12 Looking North
Northeast at drum storage
area next to Holding Tanks

1020 left facility

*Arrived Palmer Dale
11/19/96*

11/19/96

1210 ARRIVE AT FACILITY

RECEPTIONIST INDICATES THAT
MGR OF FACILITY IS NOT AT THE
FACILITY AND WILL BE BACK
AT APPROXIMATELY 1400
NO OTHER STAFF RESPONSIBLE
PRESENT AT THE FACILITY.

EPA REPS DEPART FACILITY
AT 1218. A.T. KEARNEY AND
MIE REPS REMAIN ON-SITE
TO ENSURE NO MATERIALS ARE
REMOVED FROM PROPERTY

Danlin to Attorney Palmer Dale
1300 AT Kearney representative
(Gatherine Dore) assumes
logbook responsibility.
EPA representative Bill
Rhotenberry returns and ATK
vcp Dan Trvin leaves site.
CND 11/19/96

4.0 SAMPLING ACTIVITIES

Sampling activities were conducted by Ms. Dare and Mr. O'Rear, who were supported by the other members of the EPA inspection team, on November 19, 1996. Sampling locations were determined in the field during the inspection of the facility. The sampling locations were selected and approved, on-site, by Mr. Greg Pashia and Mr. Bill Rhotenberry of the EPA. Samples were collected from the maintenance sump, the tank truck with remaining product, and the little vac truck as shown on Figure 3.

4.1 Sample Description and Locations

On Tuesday, November 19, 1996, the inspection team collected three liquid samples from the Lucky facility. The EPA inspectors offered the facility the option of obtaining split aliquots of the samples collected by the EPA inspection team, and the offer was accepted. Figure 3 shows the location of each sample collected during the inspection. Table 1 provides the sample location, a description of the sampled material, sample identification numbers, sample matrix, and analyses specified for each sample collected from the Lucky facility.

All sampling and analytical procedures were followed as described in the Quality Assurance Project Plan (QAPjP), dated November 15, 1996. A total of three liquid waste samples were collected. Samples were analyzed for ignitability (D001), corrosivity (D002), and TCLP for metals as follows: the trucks were analyzed for ignitability (D001) and corrosivity (D002), and the sump was analyzed for ignitability (D001), corrosivity (D002), and TCLP for metals. Copies of the chain-of-custody records for the sampling event are provided in Appendix C.

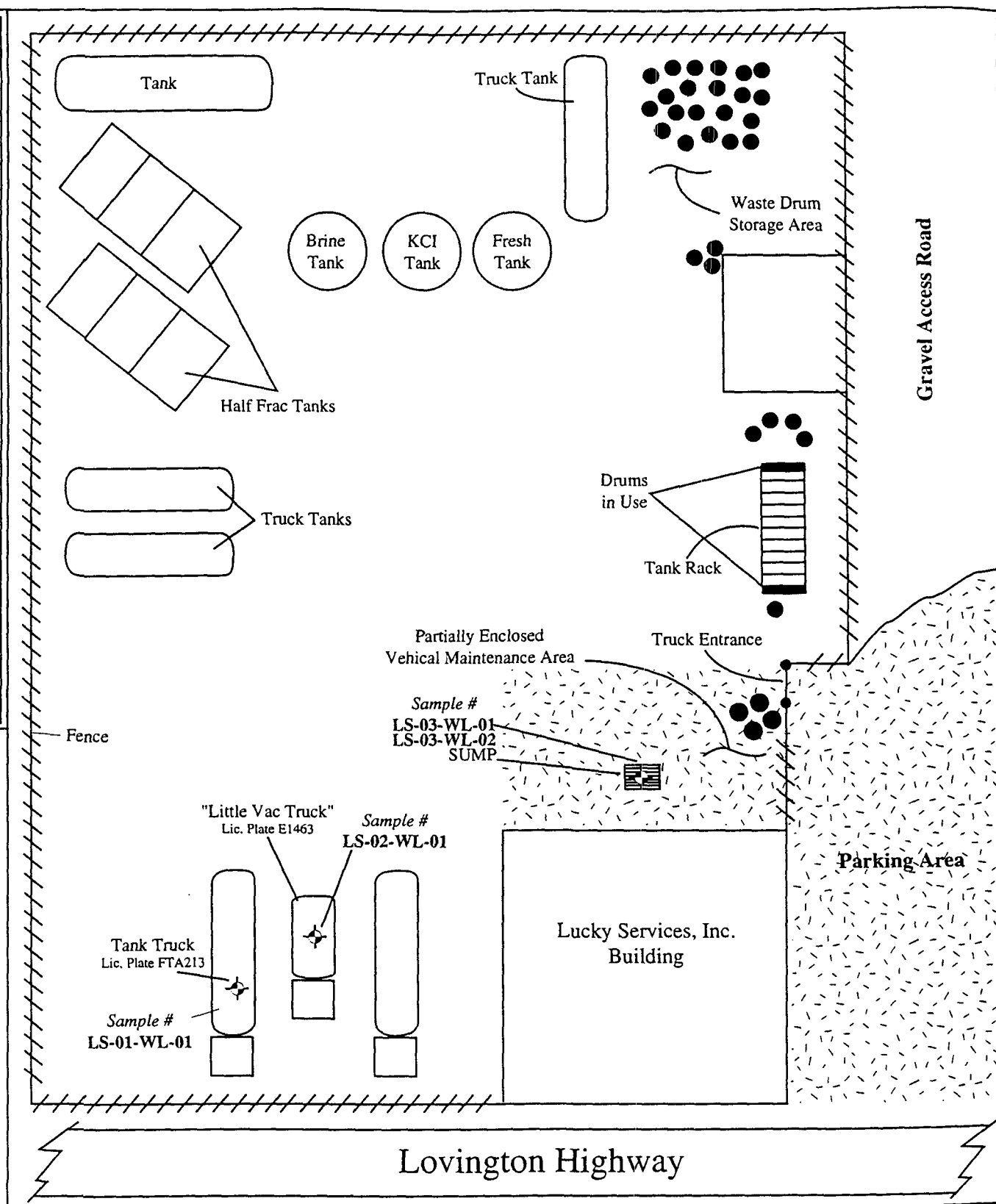
QA/QC samples collected included a field blank sample, LS-01-FB-01, a duplicate sample, LS-03-WL-02, and extra volume for MS/MSD analysis (refer to Photograph R₂P₂). All samples were collected directly into analytical glassware, so a rinsate sample was not required. The QA/QC samples were analyzed for ignitability (D001), corrosivity (D002), and TCLP for metals as follows: the MS/MSD extra volume was analyzed for ignitability (D001) and corrosivity (D002), and the duplicated and blank were analyzed for ignitability (D001), corrosivity (D002), and TCLP for metals.

Sample Collection Methods

Samples collected from the tank trucks were collected directly from the discharge valve on the tank trucks into the glassware. Samples were collected by Lucky personnel who were familiar with the operation of the tank trucks. Prior to initiating sampling, the discharge valves on the tank trucks were opened and the lines leading from the truck tanks were flushed prior to initiating sampling, to obtain a more representative sample of the material contained in the trucks. A.T. Kearney and Lucky glassware were filled alternately. During sampling activities, A.T. Kearney conducted organic vapor analysis near the valve opening

Project No.
R06054

Site sketch based on site visit - November 19, 1996
Drawn by : Cathy Dare, A.T. Kearney



A.T. Kearney 9/1637C/cc

Figure 3
Sample Location Map
Lucky Services, Inc.
Hobbs, New Mexico

Legend:
★ Sample location

REPA Contract
Contract No. 68-W4-0006

of each truck using a Mini Rae Plus, which is a photo ionization detector. Readings were noted during sample collection. Readings were used by the inspection team for monitoring health and safety during sampling activities.

Samples collected from the sump were collected via a clear polyethylene sample container that had the top inch removed. The open top polyethylene container was lowered into the sump via an extendable rod. The polyethylene container was dipped below the surface, retrieved, and the material contained in the polyethylene container was transferred into the appropriate analytical glassware. A.T. Kearney and Lucky glassware were filled alternately. During sampling activities, A.T. Kearney conducted organic vapor analysis at the top of the sump using a Mini Rae Plus. Readings were noted during sample collection. Readings were used by the inspection team for monitoring health and safety during sampling activities.

Sample Collection Procedures

The first sample, LS-01-WL-01, was collected from the tanker truck with the license plate FTA213. The material sampled was a light golden colored liquid that was cloudy and appeared to contain suspended solids (refer to Photographs R₁P₂₂ and R₁P₂₃). Matrix spike and matrix spike duplicate (MS/MSD) sample volume was collected with sample LS-01-WL-01. The second sample, LS-02-WL-01, was collected from the vacuum tanker truck with license plate E1463. The material sampled was a dark liquid and appeared to be oily in nature (refer to Photographs R₁P₂₄ and R₁P₂₅).

The third sample, LS-03-WL-01, was collected from the sump. The material sampled was a clear liquid with black suspended solids that appeared to contain oily material. Sample LS-03-WL-02 was collected as a blind duplicate of sample LS-03-WL-01 (refer to Photograph R₂P₁). The field blank, LS-01-FB-01, was collected near the sump.

All samples collected were properly custody sealed, and tagged, and placed in a cooler. The samples were wrapped in bubble wrap, placed in sealing plastic bags, and packed in appropriate DOT shipping containers. Multiple DOT shipping containers were packed in an overpack container for shipping. The field blank was handled according to the same procedure, but was maintained on ice to a temperature below 4°C. The chain-of-custody paperwork was placed in a clear plastic bag and taped to the inside of the shipping container/overpack. Copies of the chain-of-custody forms can be found in Appendix C. The overpacks were then sealed with strapping tape and a custody seal was placed on the overpack and covered with clear tape. The samples were shipped overnight, via Federal Express, to the EPA Laboratory in Houston, Texas for chemical analysis (refer to Photograph R₂P₃).

TABLE 1
Sample Location Identification Numbers

Sample Description	Material Description	Approximate Volume of Liquid	Matrix	Sample ID Number	Analysis
Tanker Truck # FTA213	Light golden colored liquid, cloudy; Appears to contain suspended solids.	40, 55-gallon drums	Liquid	LS-01-WL-01	Ignitability pH
Vacuum Truck # E1463	Dark liquid; Appears to be oily in nature.	20, 55-gallon drums	Liquid	LS-02-WL-01	Ignitability pH
Sump	Clear liquid with black suspended solids; Appears to contain oily material.	12, 55-gallon drums	Liquid	LS-03-WL-01 LS-03-WL-02 (Duplicate)	Ignitability pH TCLP - Metals

4.2 Analytical Results

A copy of the analytical results of samples collected during the CEI conducted at Lucky on November 19, 1996, are available in Appendix D. Analysis of samples was conducted by the EPA Laboratory in Houston, Texas. Results were provided to the EPA WAM by the EPA Laboratory. Results included in this report have not undergone formal EPA data validation. The EPA WAM will make all decisions regarding the validation of the data. Table 2 provides the analytical results for each sample collected from the Lucky facility.

None of the samples collected were found to contain the characteristics of ignitable or corrosive. Additionally, no TCLP metals were found above the regulatory limits as set in the RCRA regulations, 40 CFR 261.

TABLE 2
Sample Analytical Results

Sample ID Number/ Laboratory ID Number	Analysis	Compound	Reg Limit*	Concentration/ Results
LS-01-WL-01 7GDXER01-08	Ignitability	Ignitability	Postive	Negative
	PH	Corrosivity	≤2 or ≥12.5	7.0
LS-02-WL-01 7GDXER01-09	Ignitability	Ignitability	Positive	Negative
	PH	Corrosivity	≤2 or ≥12.5	6.8
LS-03-WL-01 7GDXER01-13	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.120 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-01-FB-01 7GDXER01-17	TCLP Metals	arsenic	5.0 mg/l	NA
		barium	100.0 mg/l	.060 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-03-WL-02 7GDXER01-14	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
		barium	100.0 mg/l	.140 mg/l
	Ignitability	Ignitability	Positive	Negative

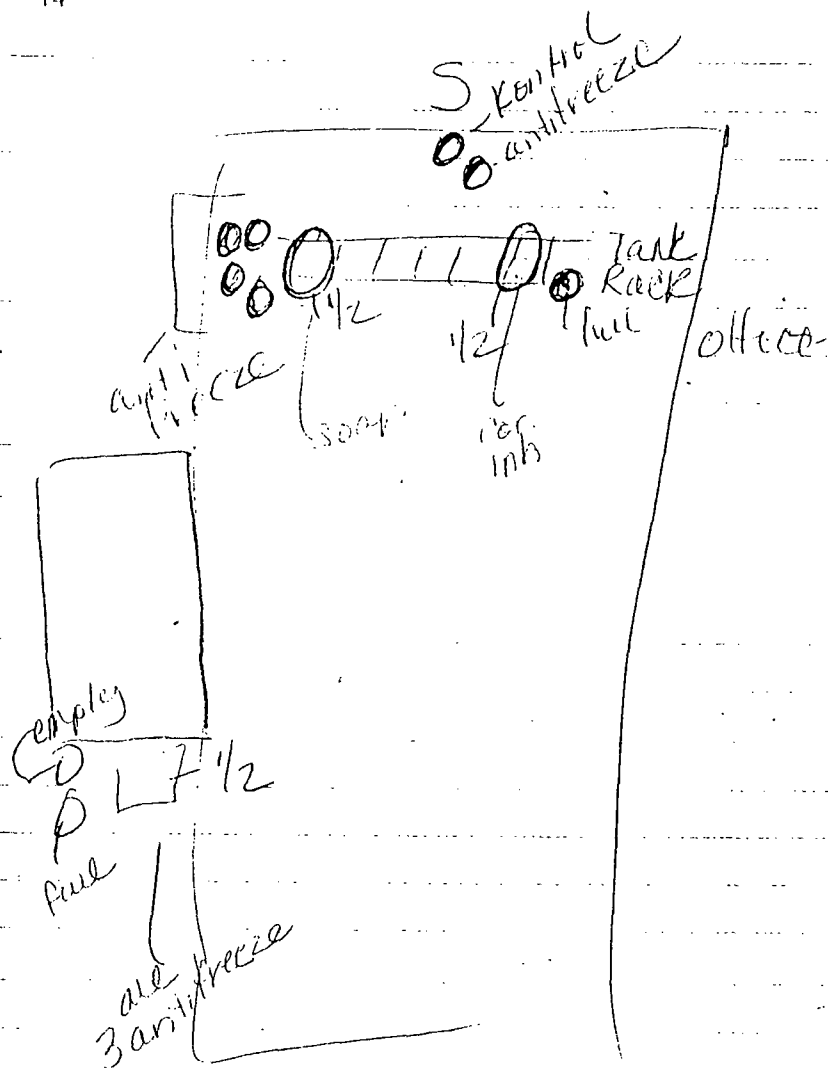
* Regulatory limits are based on 40CFR 261.24(b)

APPENDIX A

Field Log

7.0 REFERENCES

Code of Federal Regulations, Parts 260 through 299, revised July 1, 1995.



11/11/96 CJP

1445 Tank rack Corrosion inhibitor - PI-701

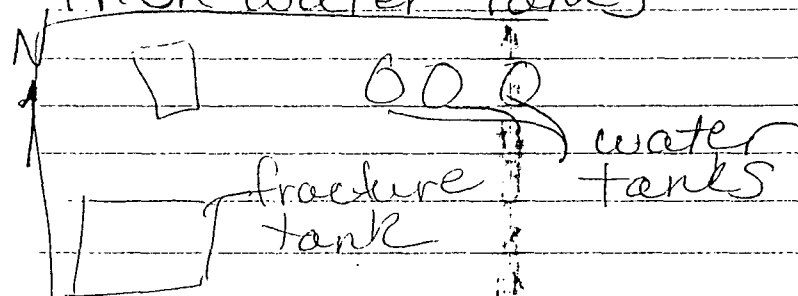
Soap - pro-kem inc.

Also empty tanks of Corrosion Inhibitor Kentrol Tank rack to empty drum storage 1515 - Empty drum storage area - will return to characterize drums in area

Large mixing tank (reverse pit) 110 barrels

Old Frac Tank

Fresh water tanks



CJP 11/19/96

N

Tank Truck

Plate - FTA 213

WHP 3067 40 barrels

Little vac 20 barrels

of sample etc.

S

CPD 11/19/94

Tank truck with license
Plate FTA 213 / truck NO.
WHP 3067 - Mett empty
Weyhauser 130 barrels H₂O
55 gallons - packer fluid
went on location
pumped 60 barrels
to go back out in
morning.

Go back in morning
Routine mixture

Fract tank contains:

Produced Water in Fract Tank
o Payne
- Produced water backwash
"A to 10 # Brak"

separated on heater-trailer

Lucky subcontractors:

E&E will pick-up liquids
(oil and antifreeze)

Lonestar hauls empty drums.

Team completed site tour
and returned to empty
drum storage area to
classify drums.

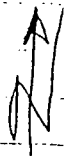
CPD 11/19/94

0 3 222 00 0
00000

Total
Naptha 27 drums
drip gas
acid unknown
used motor oil

they been at least
6 months for
half of drums

2 drip gas
1 Naptha
1 acid unknown
1 motor oil



CPD 11/19/96

Proposed sampling activities:
Dump Sump for TCLP metals
sump truck

tan ker truck - dump
Dan Irvin and Greg Pashka on site
analyze for ignitability
for corrosivity

1600 ⁴⁰⁰ OF to Dan Irvin
PREPARE TO CONDUCT
SAMPLING ACTIVITIES

1640 BEGINNING SAMPLING
AT LS-01-WL-01 & 02 DI
LS-01-WL-07

1647 COLLECT LS-02-WL-01

1655 COLLECT LS-03-WL-01 & 02 DI
LS-03-WL-02

1705 COMPLETE CHAIN-OF-CUSTODY
OF LS-01 THROUGH 03

1713 COLLECT LS-01-FB-01
802 & 1L

DESCRIPTION OF SAMPLES

SAMPLE NUMBER	DESCRIPTION
LS-01-WL-01 6-014633 & 6-014617 DO QC	LIGHT GOLDEN COLOR CLOUDY APPEARS TO CONTAIN SUSPENDED SOLIDS
LS-02-WL-01 6-014507 6-014619	DARK LIQUID; APPEARS TO BE OILY IN NATURE
LS-03-WL-01 6-014622 DUP 6-014619	CLEAR LIQUID WITH BLACK SUSPENDED SOLIDS; APPEARS TO CONTAIN OILY MATERIAL

Catherine Palmer-Dore
11/19/96

Catherine Palmer-Dore

Sample Location Summary:

LS-01-WL-01-Tanker Truck FH213

- QC volume collected here

LS-02-WL-01-Vacuum Truck

E 1463

LS-03-WL-01-Sump

LS-03-WL-02-Duplicate

1800 Team left Lucky
facility. Received MSDS
sheets for all materials
managed on-site, as
Sump collected all materials
Photos were taken by
MOE rep Wally O'Rear and
EPA rep Bill Phollenberry
and logged by the photographer.

Catherine Palmer-Dore
November 19, 1996

Catherine Palmer-Dore
11/19/96

11/19/96

1506 Photo #11 Photo of
reverse pit located
on the NE portion
of the facility

Photo #12 Close up of reverse pit

1507 Photo #13 Photo of
the East portion of
the facility

1508 Photo #14 Photo of
Southeast part of
facility

1511 Photo #15 Photo
Truck which has retractant
on it

11/19/96

1512 Photo #16 Drum of
Naptha located with
drums in the SE
corner of facility

1514 Photo #17 Close up
of label on drum
of Photo #16

1515 Photo #18 Drum labeled
as acid located on
SE portion of facility

1516 Photo #19 View
of Drums located
in the SE corner
of facility

11/18/96

1452 Photo #5 Drums of
Soap on a holding tank
located on the SE
Portion of the facility

1453 Photo #6 Drums of
Antifreeze located
near the other drums
on the south side
of facility

1455 Photo #7 Photo of
drums located on the
Southeast corner
of the facility
These drums

11/19/96

are to be picked up
for disposal by Lone Star

1456 Photo #8 Drums located
next to the other drums
on photo #7 are also
for disposal. South of
the other drums

1459 Photo #9 Tanker located
on SE corner of
facility

1504 Photo #10 Holding Tanks
located near the Southeast
corner of facility

DRAFT

PHOTO LOG FOR LUCKY WELL SERVICE SAMPLING EVENT

PHOTO #	DIRECTION	DESCRIPTION	
22	1	N	Sample from tanker truck Lic. #E1464
23	2	NW	Close-up Sample from tanker truck
24	3	SW	Sample from Vacuum truck
25	4	SW	Close-up Sample from Vac Truck
26	5	S	Sample from wash out sump
27	6	E	Field blank

Turn

1640
1650
1650
1652
1655
1715

DRAFT

11/19/96

Lucky Services

arrived @ 1210

1325 Bill Hicks

They keep fresh

water & Brine

Arkansas Junction

Alliance is where they

take any left overs

or waste.

Roll #4

Lucky Service

Photo #1 Photo of Sump

area Looking East

located on the North east

portion of facility

1441 Photo #2 Sump area

Looking South

1449 Photo #3 Trash area

Located on the Northeast

area behind the main

Building

1450 Photo #4 Trash area

which contains oil Filters

11/19/96

11/19/96

Down

1518 Photo # 20 JAP

✓ Drip gas drum located
in the @ ~~NW~~ SE corner
of facility

11/20/96

Baroid

Roll # 5

Photo # 1 Drum Storage Area
Looking North

Photo # 2 Drum Storage
Area looking East Southeast

Photo # 3 Looking West
North West

Photo # 4 Looking East
at the Back of the
facility

APPENDIX B

Inspection Derived Documents

LIST OF DOCUMENTS

1. Material Safety Data Sheet for CI-410 Corrosion Inhibitor, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
2. Material Safety Data Sheet for Ashland Permanent Antifreeze, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
3. Material Safety Data Sheet for Clay Stabilizer (Liquid KCl), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
4. Material Safety Data Sheet for Essentialube with LP-1000 (fuel additive), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
5. Material Safety Data Sheet for F-20 Biodegradable Soap (rig soap), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
6. Material Safety Data Sheet for Lacquer Thinners and Cleaning Solvents, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
7. Material Safety Data Sheet for Methanol, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
8. Material Safety Data Sheet for Metal Treatments, Lacquer Remover, Paint Remover, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
9. Material Safety Data Sheet for Cleaning Liquid (rig soap), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
10. Material Safety Data Sheet for Cleaning Compounds (rig soap), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
11. Material Safety Data Sheet for Peat Sorb Oil Absorbent, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
12. Material Safety Data Sheet for Chevron Torque Fluid, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
13. Material Safety Data Sheet for Chevron Ultra-Duty Grease EP NLGI 2, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
14. Material Safety Data Sheet for Chevron Automatic Transmission Fluid (Dextron II), provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
15. Material Safety Data Sheet for Mobil Regular 30, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
16. Material Safety Data Sheet for Chevron Delo 400 Multigrade SAE 15W-40, provided to A.T. Kearney by Lucky Services, Inc. on November 19, 1996.
17. Material Safety Data Sheet for Chevron Delo SAE 40, provided to A. T. Kearney by Lucky Services, Inc. on November 19, 1996.

Caroline Salmon-Jane
11/19/96

Sump Dimensions -
not available during meeting
they had UTS.
Rhino dug out old tanks

The sump is approximately
5' - 6' deep
Lucky empties the blind sump
2-3 times a week

They currently have one
truck on site mixed with:
Packer Fluid - Way/ausar
Surfactant/corrosion
& inhibitor - casing and
lubing

After completing the
introductory meeting, GD,
BR and Wally O'Rear^(two) of m&E
proceeded to don appropriate
PPE for Lucky Site
tour to observe current
facility waste management
status. After donning
equipment, team met in Building
CPD 11/19/96

Atkins Palmer Base
11/19/96

1432 The site tour was initiated

Sumpin Machine Shop drains into sump

The sump drains the floor which is cleaned on Fridays and, another day a week

Parts Cleaner in Shop
Ice Machine dumps into sump
Sump has a capacity of 25 barrels

Used motor oil from trucks
Pick ups down @ PJ's
Oil and Filter Crusher Company

Ederwasher - Hobbs takes Green plastic ^{tank} ~~box~~ soap to wash trucks with. The tank is filled periodically with soap by tanker truck

Lonestar team proceeded from outside maintenance area to pipe rack - product storage area.

CAD 11/19/96

Interview Farmer Jones
11/19/96

Lucky owner is Duwayne Taylor
1325 The team entered the
facility (Bill Anderson, EPA, locally
& Reed, Cathy Dark, of ATK)
Initiated introductory meeting
Alliance Function (Lucky Alliance)
Any leftover (water/brine)
goes there from left over
they don't use surfactants, ^{customers} say
additives, acids
is how Lucky manages "wastes"
they have Soap- Champion
they haul soap for a
facility. They primarily
supply water and water
based products.
they add fresh water to
trucks- they drive/splash
around to mix any additives
during transport
they wash tools off and they
drain to sump in maintenance
area.

Lucky Alliance - OGD regulated
Customer Specifics disposal

CPD 11/19/96

Covering Cement Lane
11/19/96

location for leftover materials.
They don't routinely rinse trucks.
If they use viscous material,
they rise and super suck
the material out & transport
it to Alliance or other
disposal facility. Materials
they manage on site include:
Corrosion Inhibitor - ^{sand line} drilling line
Soap - slick up water
Antifreeze
5 gallon containers
motor oil / transmission
oil / diesel / oil / road diesel / gas
Longstar hauls empty
Drums away for recycling.
they manage these materials by
Fate product on a
pipe rack
3 above-ground tanks contain:
S - Fresh water
middle - KCl - water
- Brine Water 9-9.5
They have several
Transporter Trailers.

CPD 11/19/96.

5.0 OBSERVATIONS

5.1 Records Inspections

During the CEI at the Lucky facility, a records review was conducted. Material Safety Data Sheets (MSDSs) were obtained for CI-410 Corrosion Inhibitor; Ashland Permanent Antifreeze; Clay Stabilizer (Liquid KCl); Essentialube with LP-1000 (fuel additive); F-20 Biodegradable Soap (rig soap); Lacquer Thinners and Cleaning Solvents; Methanol; Metal Treatments; Lacquer Remover; Paint Remover; Cleaning Liquid (rig soap); Cleaning Compounds (rig soap); Peat Sorb Oil Absorbent; Chevron Torque Fluid; Chevron Ultra-Duty Grease EP NLGI 2; Chevron Automatic Transmission Fluid (Dextron II); Mobil Regular 30; Chevron Delo 400 Multigrade SAE 15W-40; and Chevron Delo SAE 40 (see Appendix E). A site facility map was not available from the facility.

The exit briefing was led by Mr. Rhotenberry and Mr. Pashia. In attendance were Mr. Taylor and the rest of the inspection team. Mr. Rhotenberry informed Mr. Taylor that a copy of the inspection report and the analytical data could be made available to Lucky in forty-five to sixty days.

5.2 Visual Observations

A visual inspection of the Lucky site was conducted on November 19, 1996. The facility tour was provided by Mr. Dwayne Taylor, owner and operator of Lucky Services, Inc. The inspection team toured the entire fenced facility. During the inspection, two areas of concern were identified. The areas of concern are discussed below.

Tank Trucks

The facility has several tank trucks that they use to transport their products to the drilling sites. The tank trucks are of various sizes. During the inspection, two of the trucks contained materials. Mr. Taylor informed the inspection team that the vacuum truck contained material removed from the on-site maintenance sump, and that the second truck tank contained unused product that was to be returned to the drilling site at a later date.

Maintenance Sump

The outside vehicle maintenance area had a blind sump that received wash water from the trucks as well as equipment used to at client sites. Due to the unknown nature of these materials and the lack of information on the characteristics of the sump material, samples of the material in the sump were collected to determine if the materials were hazardous.

6.0 SUMMARY OF FINDINGS

On Tuesday, November 19, 1996, an unannounced RCRA CEI was performed by A. T. Kearney, Inc. at Lucky Services, Inc. at 6210 Lovington Highway, in Hobbs, Lea County, New Mexico, 88240. Sampling was also conducted as part of the inspection. The sampling and inspection were conducted under the RCRA REPA Contract 68-W4-0006, Work Assignment R06054 under the authority of Section 3007 of the RCRA, as amended.

Findings

A total of three samples were collected from the tank trucks and sump from the facility. Samples were analyzed for either ignitability, corrosivity, pH, or TCLP metals. The analytical results do not show that any of the materials sampled are characteristic hazardous wastes.

MATERIAL SAFETY DATA SHEET

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CI-410 CORROSION INHIBITOR

UNIVERSAL CHEMICAL CO., INC.
1200 WASHINGTON STREET
LEVELLAND, TEXAS 79336

ISSUE DATE - 06/15/92

EMERGENCY TELEPHONE NUMBERS:

UNIVERSAL TREATING CO., INC ----- 806/894-6125
CHEMTREC ----- 800/424-9300

SECTION 1. HAZARDOUS INGREDIENT INFORMATION

CHEMICAL NAME: OIL SOLUBLE, WATER DISPERSIBLE CORROSION INHIBITOR
CHEMICAL FAMILY: AROMATIC HYDROCARBON CONTAINING METHANOL
DESCRIPTION: AMBER COLORED, AROMATIC ODOR, LIQUID.

SECTION 2. - HAZARDOUS INGREDIENT INFORMATION

THE COMPOSITION OF THIS MIXTURE MAY BE PROPRIETARY INFORMATION. IN THE
EVENT OF A MEDICAL EMERGENCY, COMPOSITIONAL INFORMATION WILL BE
PROVIDED TO A PHYSICIAN OR NURSE.

THIS PRODUCT IS HAZARDOUS AS DEFINED IN 29CFR1910.1200, BASED ON THE
FOLLOWING COMPOSITIONAL INFORMATION:

COMPONENT

OSHA HAZARD

XYLENE	2,3,5
METHANOL	1,2,3,4,5
AROMATIC PETROLEUM DISTILLATES	1

SECTION 3. - HEALTH INFORMATION AND PROTECTION

NATURE OF HAZARD

EYE CONTACT: MAY CAUSE SEVERE IRRITATION, REDNESS, TEARING AND BLURRED
VISION.

MATERIAL SAFETY DATA SHEET

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SKIN CONTACT: ALTHOUGH NO APPROPRIATE HUMAN OR ANIMAL HEALTH EFFECTS DATA ARE KNOWN TO EXIST, THIS MATERIAL IS EXPECTED TO BE A HEALTH HAZARD BY SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE MODERATE IRRITATION, DEFATTING OR DERMATITIS.

INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS.

INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSA, VOMITING AND DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS.

FIRST AID

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER EYELIDS OCCASIONALLY. SEEK MEDICAL ATTENTION. SKIN CONTACT: THOROUGHLY WASH THE EXPOSED AREA WITH MILD SOAP/WATER. FLUSH W/LUKEWARM WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH BEFORE REUSE. SEEK MEDICAL ATTENTION IF ILL EFFECT OR IRRITATION DEVELOPS.

INHALATION: IF AFFECTED, REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. RISK OF DAMAGE TO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS. GIVE WATER OR MILK, IF VICTIM IS COMPLETELY CONSCIOUS/ALERT. KEEP THE PERSON WARM AND QUIET. GET IMMEDIATE MEDICAL ATTENTION.

WORKPLACE EXPOSURE LIMITS

OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:

XYLENE	435 mg/m3
METHANOL	260 mg/m3
PETROLEUM DISTILLATES	2000 mg/m3

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:

XYLENE	435 mg/m3
METHANOL	260 mg/m3
PETROLEUM DISTILLATES	2000 mg/m3

UNIVERSAL CHEMICAL RECOMMENDS THE ABOVE EXPOSURE LIMITS.

CI-410 CORROSION INHIBITOR

UNIVERSAL CHEMICAL CO., INC.
1200 WASHINGTON STREET
LEVELLAND, TEXAS 79336

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PRECAUTIONS

PERSONAL PROTECTION: WHEN SKIN CONTACT IS POSSIBLE, PROTECTIVE CLOTHING, INCLUDING LONG SLEEVED SHIRT, TROUSERS, IMPERVIOUS BOOTS, GLOVES, APRON AND HEAD AND FACE PROTECTION SHOULD BE WORN. THIS EQUIPMENT MUST BE CLEANED THOROUGHLY AFTER EACH USE.

VENTILATION: BOTH LOCAL EXHAUST AND GENERAL ROOM VENTILATION ARE RECOMMENDED TO MEET EXPOSURE STANDARD(S)

CHRONIC EFFECTS: HARMFUL ON PROLONGED OR REPEATED SKIN CONTACT.

=====

SECTION 4 - FIRE & EXPLOSION HAZARD

=====

FLASHPOINT: TCC 116 DEGREE F
FLAMMABLE LIMITS: N/A
AUTOIGNITION TEMPERATURE: N/A
GENERAL HAZARD: NONE

FIRE FIGHTING: DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTION. POISONOUS GAS(ES) MAY BE GENERATED WITHOUT WARNING ON RELEASE FROM CONFINEMENT/HIGH TEMPERATURE DECOMPOSITION OR RUPTURE OF ENCLOSED CONTAINERS/ WATER CONTACT, ALL OF WHICH WILL GREATLY INCREASE HAZARDS OF FIRE FIGHTING. FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE. APPROVED CLASS B HAZARDS (EG. DRY CHEMICAL, CARBON DIOXIDE, FOAM, STEAM), OR WATER FOG COULD BE USED AS THE FIRE EXTINGUISHING MEDIA.

MATERIAL SAFETY DATA SHEET

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CI-410 CORROSION INHIBITOR

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HAZARDOUS COMBUSTION PRODUCTS: MAY FORM TOXIC MATERIALS, CARBON DIOXIDE, CARBON MONOXIDE AND VARIOUS HYDROCARBONS.

SECTION 5 - SPILL CONTROL PROCEDURE

LAND SPILL: REMOVE OR SHUT OFF ALL SOURCES OF IGNITION. PREVENT ADDITIONAL DISCHARGE OF MATERIAL. IF SMALL SPILL, ABSORB ON PAPER, VERMICILITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD. IF LARGE SPILL, CLOSE THE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, FLOOR ABSORBANT, AND SHOVELED INTO CONTAINERS. PREVENT RUN-OFFS TO SEWERS, STREAMS OR LOW AREAS. NOTIFY PROPER AUTHORITIES.

WATER SPILL: IF ALLOWED BY LOCAL AUTHORITIES AND ENVIRONMENTAL AGENCIES, SUITABLE DISPERSANTS MAY BE USED. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL, ENSURING CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

SECTION 6 - NOTES

NOTES: STORE AWAY FROM HEAT, IGNITION SOURCES (SPARKS, AND OPEN FLAMES). USE WITH ADEQUATE VENTILATION. KEEP CONTAINERS CLOSED, IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, OR LOCAL REGULATIONS. DO NOT USE PRESSURE TO EMPTY CONTAINERS. WASH THOROUGHLY AFTER HANDLING.

MATERIAL SAFETY DATA SHEET

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CI-410 CORROSION INHIBITOR

UNIVERSAL CHEMICAL CO., INC.
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HAZARD RATING SYSTEMS:

THIS INFORMATION IS FOR PEOPLE TRAINED IN:

NATIONAL PAINT & COATINGS ASSOCIATION'S (NPCA)

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704)

IDENTIFICATION OF THE FIRE HAZARDS OF MATERIALS

	NPCA-HMIS	NFPA 704	KEY
HEALTH	1	1	4=SEVERE
FLAMMABILITY	3	3	3=SERIOUS
REACTIVITY	0	0	2=MODERATE
			1=SLIGHT
			0=MINIMAL

SECTION 7 - REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

DOT PROPER SHIPPING NAME: CORROSIVE LIQUID, FLAMMABLE, N.O.S

DOT HAZARD CLASS: CORROSIVE MATERIAL (8)

DOT IDENTIFICATION NUMBER: 1993

NAME: UN 1993

TSCA:

CERCLA:

IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 800-424-8802.

THE REPORTABLE QUANTITY OF THIS MATERIAL IS 10,000 LBS (XYLENE)

CI-410 CORROSION INHIBITOR

UNIVERSAL CHEMICAL CO., INC.
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ISSUE DATE - 06/15/92

SARA TITLE III:

UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATAGORIES:

IMMEDIATE HEALTH, DELAYED HEALTH, FIRE.

THIS PRODUCT CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:

COMPONENT	CAS#	MAX%
XYLENE	1330-20-7	N/A
METHANOL	67-56-1	N/A
PETROLEUM DISTILLATES	NOT ESTABLISHED	N/A

SECTION 8 - TYPICAL PHYSICAL & CHEMICAL PROPERTIES

SPECIFIC GRAVITY (@ F): 0.88
VAPOR PRESSURE (mmHg @ F): 51.0
DENSITY: 7.36#/GAL
SOLUBILITY IN WATER: DISPERSIBLE
VISCOSITY (cST @ F): N/A
SPECIFIC GRAVITY OF VAPOR (@ 1 atm. AIR = 1): 1.1
FREEZING/MELTING POINT/RANGE (F): 0 DEGREE F
EVAPORATION RATE (n-Bu ACETATE=1): LOWER
pH: 6.8

SECTION 9 - REACTIVITY DATA

THIS PRODUCT IS STABLE AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
CONDITIONS TO AVOID INSTABILITY: NONE
CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION: NOT EXPECTED TO OCCUR
MATERIALS & CONDITIONS TO AVOID INCOMPATIBILITY: STRONG ALKALI
HAZARDOUS DECOMPOSITION PRODUCTS: MAY PRODUCE CARBON MONOXIDE
AND/CARBON DIOXIDE AND HYDROCARBONS.

SECTION 10 - STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD?

STORAGE TEMPERATURE (F): AMBIENT
STORAGE PRESSURE (mmHg): ATMOSPHERIC
LOADING TEMPERATURE (F): AMBIENT
LOADING VISCOSITY (cST @ F): NOT AVAILABLE

MATERIAL SAFETY DATA SHEET

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CI-410 CORROSION INHIBITOR

UNIVERSAL CHEMICAL CO., INC.
1200 WASHINGTON STREET
LEVELLAND, TEXAS 79336

ISSUE DATE - 06/15/92

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SECTION 11 - OTHER INFORMATION

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END OF MSDS

=====

THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY OTHER PROCESS. SUCH INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USERS RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION NOR DO WE OFFER WARRANTY AGAINST PATENT INFRINGEMENT.

Antifreeze

**MATERIAL SAFETY
DATA SHEET**



ASHLAND CHEMICAL, INC.

Subsidiary of Ashland Oil, Inc.

P.O. BOX 2219

COLUMBUS, OHIO 43216

(614) 889-3333

24-HOUR
Emergency
Telephone

1 (800) 274-5263 or

1 (800) ASHLAND

002185

ASHLAND PERMANENT ANTIFREEZE

Page:

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Product Name: ASHLAND PERMANENT ANTIFREEZE

KEELING PETROLEUM INC.
PO BOX 2566
HOBBS

NM 88240

05 50 039 4856940-

PRODUCT: 7523006
INVOICE: 606521
INVOICE DATE: 04/30/92
TO: KEELING PETROLEUM INC.
2902 W MARLAND
HOBBS

NM 88240

ATTN: PLANT MGR./SAFETY DIR.

Data Sheet No: 0196995-002
Prepared: 05/31/89
Supersedes: 12/22/88

SECTION I - PRODUCT IDENTIFICATION

General or Generic ID: GLYCOL

DOT Hazard Classification: NOT APPLICABLE

SECTION II - COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION. SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (by WT)	PEL	TLV	Note
SODIUM TETRABORATE DECAHYDRATE CAS #: 1303-96-4	1-10	10 MG/M3	5 MG/M3	
ETHYLENE GLYCOL CAS #: 107-21-1	89	50 PPM - CEILING	50 PPM - CEILING	(1)

Notes:

(1) THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

SECTION III - PHYSICAL DATA

Boiling Point	for COMPONENT(89%)	379.00 Deg F (192.77 Deg C) @ 760.00 mm Hg
Vapor Pressure	for COMPONENT(89%)	< 0.10 mm Hg @ 68.00 Deg F (20.00 Deg C)
Specific Vapor Density		HEAVIER THAN AIR
Specific Gravity		GREATER THAN WATER
Percent Volatiles		>60%
Evaporation Rate		SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT NOT APPLICABLE

EXPLOSIVE LIMIT (LOWEST VALUE OF COMPONENT) LOWER - 3.2%

EXTINGUISHING MEDIA: WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS: CARBON DIOXIDE AND CARBON MONOXIDE, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIREFIGHTER, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

SPECIAL FIRE & EXPLOSION HAZARDS: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

NFPA CODES: HEALTH- 1 FLAMMABILITY- 1 REACTIVITY- 0

SECTION V - HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - CAN CAUSE IRRITATION.
SKIN - CAN CAUSE SLIGHT IRRITATION.
BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION.
SWALLOWING - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

FIRST AID:

IF ON SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE RE-USE.

IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET MEDICAL ATTENTION.

002185

ASHLAND PERMANENT ANTIFREEZE

Page: 2

SECTION V-HEALTH HAZARD DATA (CONTINUED)

IF SWALLOWED: IMMEDIATELY DRINK TWO GLASSES OF WATER AND INDUCE VOMITING BY EITHER GIVING IPECAC SYRUP OR BY PLACING FINGER AT BACK OF THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIAN: THIS PRODUCT CONTAINS ETHYLENE GLYCOL. ETHANOL REDUCES THE METABOLISM OF ETHYLENE GLYCOL TO TOXIC METABOLITES. ETHANOL SHOULD BE ADMINISTERED AS SOON AS POSSIBLE IN CASES OF SEVERE POISONING SINCE THE ELIMINATION HALF-LIFE OF ETHYLENE GLYCOL IS 3 HOURS. IF MEDICAL CARE WILL BE DELAYED SEVERAL HOURS, USE THREE TO FOUR 1-OUNCE ORAL "SHOTS" OF 86-PROOF WHISKEY BEFORE OR DURING TRANSPORT TO THE HOSPITAL. HEMODIALYSIS EFFECTIVELY REMOVES ETHYLENE GLYCOL AND ITS METABOLITES FROM THE BODY.

IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY:

INHALATION, SKIN CONTACT

EFFECTS OF CHRONIC OVEREXPOSURE:

ETHYLENE GLYCOL HAS BEEN SHOWN TO PRODUCE DOSE-RELATED TERATOGENIC EFFECTS IN RATS AND MICE WHEN GIVEN BY GAVAGE OR IN DRINKING WATER AT HIGH CONCENTRATIONS. WHILE THERE IS NO CURRENTLY AVAILABLE INFORMATION TO SUGGEST THAT ETHYLENE GLYCOL HAS CAUSED BIRTH DEFECTS IN HUMANS IT IS RECOMMENDED THAT EVERY EFFORT SHOULD BE MADE TO PREVENT THE INGESTION OF ANY ETHYLENE GLYCOL AND TO KEEP PERSONNEL EXPOSURE BELOW THE ACGIH TLV.

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: KIDNEY DAMAGE

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: LIVER ABNORMALITIES, KIDNEY DAMAGE, CENTRAL NERVOUS SYSTEM EFFECTS

SECTION VI-REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH: STRONG OXIDIZING AGENTS

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE. PREVENT FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. PREVENT FROM SPREADING. IF RUNOFF OCCURS, NOTIFY AUTHORITIES AS REQUIRED. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD:

SMALL SPILL: ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME FOR VAPORS TO COMPLETELY CLEAR HOOD DUCT WORK. DISPOSE OF REMAINING MATERIAL IN ACCORDANCE WITH APPLICABLE REGULATIONS.

LARGE SPILL: DESTROY BY LIQUID INCINERATION IN ACCORDANCE WITH APPLICABLE REGULATIONS.

SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE SECTION II), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS: NITRILE RUBBER

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS DATASHEET MUST BE OBSERVED.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

Liquid
KUL

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: 002
 PART NUMBER:
 PRODUCT NAME: ST-107 CLAY STABILIZER
 CAS NUMBER: - 0
 CHEMICAL NAME: ST-107 CLAY STABILIZER

SECTION I

MANUFACTURER: Pro-Kee, Inc.

ADDRESS: 2400 S. Main
 Lovington, NM 88260

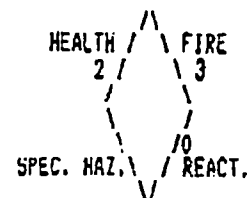
EMERGENCY TELEPHONE NUMBER: (505)396-7433

INFORMATION TELEPHONE NUMBER: (505)396-7433

DATE PREPARED: 04/18/95

HMIS RATINGS:

HEALTH: 2
 FIRE: 3
 REACTIVITY: 0
 PERSONAL PROTECTION: B



SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS NUMBER	HAZARDOUS COMPONENT	MTL	IRAC	SUB- PART/2	SARA 313	USHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED PERCENT
- 6-7	Methanol	?	?	?	?	400ppm	400ppm	NI

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	180 deg F	SPECIFIC GRAVITY (H2O = 1)	0.99800
VAPOR PRESSURE (mm Hg.)	8.0	MELTING POINT	NI
VAPOR DENSITY (AIR = 1)	0.8	EVAPORATION RATE (Butyl Acetate = 1)	mod.

SOLUBILITY IN WATER: complete

APPEARANCE AND ODOR: clear liquid, alcohol odor

OTHER INFORMATION:

GENERIC NAME: CLAY STABILIZER

Flammable Liquid NOS UN-1993

DOT Response Number--27

DOT Hazard Class-- Flammable

DOT Packing Group--III

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 100 deg F.

FLAMMABLE LIMITS: LEL: approx 2.0 UEL: approx 12.

EXTINGUISHING MEDIA:

Dry Chemical
 CO2
 Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Do not enter fire area without proper protection - see section V - decomposition products possible.

Fight fire from safe distance/protected location.

Heat may build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries.

Use water spray/fog for cooling.

Notify authorities if liquid enters sewer/public waters.

UNUSUAL FIRE FIGHTING PROCEDURES:

Material may release flammable vapors if exposed to high temperature. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined.
 Vapors may be heavier than air, may travel long distances along ground before igniting / flashing back to vapor source.

SECTION V - REACTIVITY DATA

STABILITY:

Stable under normal conditions.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong Oxidizing agents, such as Hydrogen Peroxide, Bromine, and Chromic Acid.
Strong Acids.
Strong Alkalies.
Heat, sparks, open flames, and elevated temperatures.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Incomplete combustion may release poisonous carbon monoxide, carbon dioxide, and oxides and/or compounds of nitrogen.

HAZARDOUS POLYMERIZATION:

Not expected to occur.

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:

Inhalation: Primary Route

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Eye contact: Primary Route

Although no appropriate human or animal effects data are known to exist, this material is expected to cause eye irritation.
Although no appropriate human or animal effects data are known to exist, this material is expected to cause eye irritation.
Although no appropriate human or health effects data are known to exist, this material is expected to absorb through the skin.

Skin absorption: Primary Route

Skin irritation: appropriate human or health effects data are known to exist, this material is expected to be a skin irritant. Although no appropriate human or animal health effects data are known to exist, this material is expected to be a skin irritant.

Ingestion:

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an ingestion hazard.

Ingestion:

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an ingestion hazard.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Acute Health Effects: (Short Term)

Irritant to Eyes.
Irritant to Skin.
Severe Ingestion Hazard.
Vapor will irritate the nasal mucosae.
Material is expected to absorb readily through the skin.

SIGNS AND SYMPTOMS OF EXPOSURE:

Skin Contact:

Irritation or redness of the skin may develop after exposure.

Eye Contact:

Severe eye irritation may develop on exposure. May cause corneal damage.

Ingestion:

Severe irritation and burning of the linings of the mouth, throat, and stomach may develop. Toxic by ingestion.

Inhalation:

Coughing and shortness of breath may result. More severe symptoms are also possible. Methanol is a cumulative toxin. Avoid continuous exposure. Can cause dizziness, unconsciousness, cardiac depression, optic complication and death.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

This material or its emissions may affect the central nervous system and/or aggravate pre-existing disorders. Prolonged observation may be indicated.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation:

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

Eye Contact:

In case of eye contact, immediately rinse with clean water for 20 to 30 minutes. Retract both eyelids often. Obtain emergency medical attention.

Skin Contact:

Immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Obtain emergency medical attention.

SECTION VI - HEALTH HAZARD DATA (Continued)

Ingestion:

If large quantity swallowed, give lukewarm water (pint) if victim is completely conscious and alert. Do not induce vomiting, as risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention IMMEDIATELY. Gastric lavage recommended.

Emergency Medical Treatment Procedures:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Continue to rinse eyes with clean water for 20 to 30 minutes, retracting eyelids often. Contact ophthalmologist immediately.

Treat burns or allergic reactions conventionally after decontamination. Do not induce vomiting. The use of an endotracheal tube should be considered. Administer an aqueous slurry of activated charcoal followed by a cathartic such as magnesium citrate or sorbitol.

OTHER HEALTH WARNINGS:

The toxicological and carcinogenic properties of this material have not been fully investigated. Handle accordingly, avoiding contact.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Equip responders with proper protection (see section VIII).

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material, and transfer to hood.

LARGE SPILLS: - Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

Prevent run-off into sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that spill has occurred.

WASTE DISPOSAL METHOD:

Comply with Federal / State / Local regulations for disposal. Contact state and federal regulators to determine whether the material should be classified as a hazardous waste or industrial waste and handled accordingly. Use licensed transporter and disposal facility.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

For transport, handling, and storage, use polyethylene, plastic, lined steel or stainless steel. Store in tightly closed containers in cool, dry, isolated and well ventilated area away from heat, sources of ignition and incompatible materials. Use non-sparking tools and explosion proof equipment. Ground lines, containers, and other equipment used during product transfer to reduce the possibility of a static induced spark. Do not "switch" load (load into containers which previously contained gasoline or other low flash material) because of possible accumulation of a static charge resulting in a source of ignition. Use good personal hygiene practices.

Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Store drums with bungs in up position.

OTHER PRECAUTIONS:

Wash thoroughly after handling.

Do not get it in eyes, on skin, or clothing.

Do not breathe dust, vapor, mist, or gas.

Keep container closed when not in use.

Empty container may contain Hazardous residues.

SECTION VIII - CONTROL MEASURES

VENTILATION REQUIREMENTS:

Either local exhaust or general room ventilation is usually required.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:

If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air-purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA 1981 Occupational Health Guidelines for chemical hazard.

Eye Protection:

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Contact lenses must not be worn.

Skin Protection:

Impervious protective suit with gloves, boots, and full head and face protection must be worn. The equipment must be cleaned thoroughly after each use.

Other Hygienic Practices:

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Shower after work using plenty of soap and water.

SECTION VIII - CONTROL MEASURES (Continued)

Other Work Practices:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Promptly remove soiled clothing / wash thoroughly before reuse.

SECTION IX - ADDITIONAL INFORMATION

ADDITIONAL MANUFACTURER WARNINGS:

For industrial use only.
Keep out of reach of children.
Failure to use caution may cause serious injury or illness.
Never siphon by mouth.

OTHER PRECAUTIONS AND COMMENTS: Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself.

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1200).

OSHA 174, SHEL TRES

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MATERIAL SAFETY DATA SHEET

American Sales and Service
5261 West 42nd Street
Odessa, Texas 79764

Telephone 915-381-3740

Section 1 PRODUCT IDENTIFICATION

- (1) Product Name: F-20 BIODEGRADABLE SOAP
(2) Chemical Name/Synonyms: n/a
(3) Chemical family: Alkaline Detergent
(4) Chemical formula: mixture
(5) NFPA Acute hazard rating:
(6) Health: 1 (7) Flammability: 0 (8) Reactivity: 0

Section 2 CHEMICAL COMPOSITION

(1)	(2)	(3)	(4)	(5)
Ingredient (Chemical Name)	CAS Number	Percent Range	PEL	LD ₅₀ mg/kg
Sodium Nitrite	7632-00-0	<1.0	n/a	214
Sodium Metasilicate	6834-92-0	<5.0	n/a	250
Ethylene Diamine Tetraacetate, Tetrasodium	64-02-8	<1.0	n/a	330
Balance non-hazardous		>86.0		

Section 3 EMERGENCY AND FIRST AID PROCEDURES

- (1) Eye Contact: Rinse for 15 minutes with potable water. If irritation persists, seek medical attention.
(2) Skin Contact: Rinse with water.
(3) Inhalation: Remove victim to source of fresh air. If symptoms persist, seek medical attention.
(4) Ingestion: Seek immediate medical attention.
(5) Special instructions for physician: None.

Section 4 PHYSIOLOGICAL EFFECTS

- (1) Primary route (s) of entry into body:
(2) ☒ Skin absorption (3) ☐ Inhalation (4) ☐ Ingestion
(5) Acute effects:
(6) Eyes: Blurred vision, redness, watering, burning, blistering.
(7) Skin: Redness.
(8) Inhalation: Irritation, coughing.
(9) Ingestion: Burning sensation, nausea.
(10) Chronic Effects: (include carcinogenic potential) Not known.

Section 5 OCCUPATIONAL CONTROL PROCEDURES

- (1) Ventilation:
(2) ☐ Local exhaust (3) ☒ General Exhaust (4) ☐ None required
(5) Personal protective equipment:
(6) Respirator type: None required
(7) Gloves: (8) ☐ Natural rubber (9) ☐ Plastic (10) ☐ Nitrile
(11) ☒ Neoprene (12) ☐ Butyl (13) ☐ Other
(14) Eye Protection: (15) ☒ Glasses with side shields
(16) ☐ Full face shield
(17) ☐ Chemical splash goggles
(18) ☐ Other: None

MATERIAL SAFETY DATA SHEET

LACQUER THINNERS AND CLEANING SOLVENTS

Section I

Manufacturer

E. I. du Pont de Nemours & Co. (Inc.)
Finishes & Fabricated Products Dept.
Wilmington, Delaware 19898
Telephone: Product information (800) 441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300
(CHEMTREC)

Product: Lacquer Thinners and Cleaning Solvents
D.O.T. Hazard Class: Flammable Liquid
Paint Related Material NA 1263

Section II — Hazardous Ingredients (See Section X for specific product codes)

Ingredients	CAS No.	Vapor Pressure (20°C mm Hg.)	Exposure Limits*
1. Butyl acetate	123-86-4	8	150ppm-A.0
2. n-Butyl alcohol	71-36-3	4	25ppm-D, 100ppm O
3. Acetone	67-64-1	185	750ppm-A, 1000ppm O
4. Methanol	67-56-1	96	200ppm-A.0
5. Toluene	108-88-3	29	100ppm-A 200ppm-O
6. Isopropyl alcohol	67-63-0	31	400ppm-A.0
7. Dibasic esters			
a) Dimethyl glutarate	1119-40-0	14 (at 100°C)	10mg/m ³ -D
b) Dimethyl succinate	106-65-0		
c) Dimethyl adipate	627-93-0		
8. 1-Methoxy-2-propanol acetate	108-65-6	2.4	100ppm-D
9. 2-Ethoxy butyl acetate	112-07-02	0.3	25ppm-D
10. Xylene	1330-20-7	8	100ppm-A.0
11. VM&P Naphtha	64742-89-8	~45	100ppm-A.0
12. Mineral Spirits	64742-88-7	~5	100ppm-A.0
13. Aromatic hydrocarbons	64742-95-6	~5	50ppm-A.0

*A = ACGIH TLV O = OSHA D = Du Pont internal limit.

Section III — Physical Data

Evaporation rate: Slower than ether
Vapor density: Heavier than air

Solubility in water: Slight

Percent volatile by volume:
100% (3929S — 93%)

Approximate boiling range:
129°F-437°F

Density: 6.4-7.5 #/gallon

Section IV: Fire & Explosion Data

Flash point (Method): 20-73F (Closed cup).

Approx. flammable limits: 1.1-14%.

Extinguishing media: Foam, carbon dioxide, dry chemical
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V — Health Hazard Data

Ingestion: Gastro-intestinal distress.

In the unlikely event of ingestion, call a physician immediately and have names of ingredients available.

Inhalation: May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: Headache, dizziness, nausea, staggering gait, confusion, unconsciousness. 1-Methoxy-2-propanol acetate and n-butyl alcohol may cause moderate eye burning and can be absorbed through the skin in harmful amounts. Laboratory studies with rats have shown that petroleum distillates cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown significant increases of kidney damage nor kidney or liver tumors. Excessive human exposure to methanol including absorption through the skin may lead to: fatigue, headache, anaesthetic neurologic effects, and visual difficulties, ultimately including blindness. Extremely high concentrations of butyl acetate have caused blood changes and weakness in laboratory animals. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Dibasic esters inhalation overexposure in rats has shown mild injury to the olfactory region of the nose. 2-Ethoxy butyl acetate can be absorbed through the skin in harmful amounts. In studies in laboratory animals has produced damage to red blood cells and kidneys. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: May cause irritation or burning of the eyes.

Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician.

In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

MATERIAL SAFETY DATA SHEET

Page 1 of 3

IDENTIFICATION

Name

Methanol

Synonyms Methanol, Alcohol, Wood Alcohol, Carbinol

CAS Name

Methanol

I.D. Nos./Codes NIOSH Registry No. PC-14000

Wiswesser Line Notation Q1

Manufacturer/Distributor

E. I. du Pont de Nemours & Co., (Inc.)

Address

Wilmington, DE 19898

HAZARDOUS COMPONENTS

Material(s)

Methanol

Chemical Family

Alcohol

CAS Registry No.

67-56-1

Product Information and Emergency Phone

(302) 774-2421

Transportation Emergency Phone

(800) 424-9300

Approximate %

100%

PHYSICAL DATA

Boiling Point, 760 mm Hg

64.7°C (148.5°F)

Specific Gravity

@ 20°C 0.792

Vapor Density

(Air = 1) ~1.1

% Volatiles by Vol.

100%

Form

Liquid

pH Information

Appearance

Clear

Melting Point

-97.8°C (-144°F)

Vapor Pressure

mm Hg @ 25°C = 138, @ 37.7°C = 220

Solubility in H₂O

100%

Evaporation Rate (Butyl Acetate = 1)

@ 25°C ~12.5

Color

Colorless

Odor

Faint Alcoholic

Octanol/Water Partition Coefficient

Log P = -0.82

FIRE AND EXPLOSION DATA

Flash Point

11°C (52°F)

Method

TCC

Autoignition Temperature

365°C (725°F)

Flammable Limits in Air, % by Vol.

Lower

6.7%

Upper

36%

Fire and Explosion Hazards Flammable. Flame is invisible in daylight. Methanol-water mixtures with 25% or more methanol are flammable.

Extinguishing Media

Dry chemical, CO₂, water spray, "alcohol" foam.

Special Fire Fighting Instructions

Use water spray to cool tanks or containers.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information set forth herein is furnished free of charge and is based on technical data that Du Pont believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

MATERIAL SAFETY DATA SHEET

September 1, 1985

METAL TREATMENTS, LACQUER REMOVER, PAINT REMOVER

Section I

Manufacturer

E. I. du Pont de Nemours & Co. (Inc.)
Finishes & Fabricated Products Dept.
Wilmington, Delaware 19898
Telephone: Product information (800) 441-7515
Medical emergency (800) 441-3637
Transportation emergency (800) 424-9300
(CHEMTREC)

Product: 224S, 225S, 226S, 227S, 244S, 5717S, 5662S,
3907S

D.O.T. Hazard Class: Flammable Liquid
Paint Related Material NA 1263

Section II — Hazardous Ingredients (See Section X for specific product codes)

Ingredients	CAS No.	Vapor Pressure (20°C mm Hg.)	Exposure Limits*
1. Acetone	67-64-1	185	1000ppm-A,O
2. Methanol	67-56-1	96	200ppm-A,O
3. Methylene chloride	75-09-5	340	500ppm-O
4. Toluene	108-88-3	29	100ppm-A,D
5. Isopropyl alcohol	67-63-0	31	100ppm-A
6. VM&P naphtha	64742-89-8	~45	400ppm-A,O
7. 2-ethoxy-butyl acetate	112-07-02	0.3	100ppm-A
8. Zinc dihydrogen phosphate	13598-37-3	None	25ppm-D
9. Monosodium phosphate	7588-80-7	None	None
10. Phosphoric acid	7664-38-2	None	None
11. Potassium fluoride	7789-23-3	None	1 mg/m ³
			2.5 mg/m ³ as F

*A = ACGIH TLV O = OSHA D = Du Pont internal limit.

Section III — Physical Data

Evaporation rate: Slower than ether
Solubility in water: Slight
Approximate boiling range: 103°F-545°F
Vapor density: Heavier than air
Percent volatile by volume: 80-100%
Density: 6.9-8.7 #/gallon

Section IV: Fire & Explosion Data

Flash point (Method): < 20°F-3907S, 20-73°F-244S,
100-200°F-5717S, 225S, > 200-all others (Closed cup).

Approx. flammable limits: 1.1-14%.

Extinguishing media: Foam, carbon dioxide, dry chemical

Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V — Health Hazard Data

Ingestion: Gastro-intestinal distress.

In the unlikely event of ingestion, call a physician immediately and have names of ingredients available.

Inhalation: May cause nose and throat irritation. If product contains ingredients #1-7, may also cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Methylene chloride is an extreme irritant to the eyes and may cause an increase in carboxyhemoglobin levels which may result in a reduced level of oxygen in the blood. Heavy smokers and those with heart disease may experience increased risk of heart problems and based on tests with laboratory animals, overexposure may create cancer risk. Methylene chloride is classified by NTP as a carcinogen. Contact may cause skin burns. Can be absorbed through the skin in harmful amounts. Eye contact with ingredients #8, #9 and #10 may cause corneal injury. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. 2-Ethoxy butyl acetate can be absorbed through the skin in harmful amounts. In studies in laboratory animals has produced damage to red blood cells and kidneys. Laboratory studies with rats have shown that petroleum distillates cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown significant increases of kidney damage nor kidney or liver tumors. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: May cause irritation or burning of the eyes.

Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician.

In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Section VI — Reactivity Data

Stability: Stable

Incompatibility (materials to avoid): None reasonably foreseeable

Hazardous decomposition products: CO, CO₂, smoke

Hazardous polymerization: Will not occur

Rig
SDAP

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION					
NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special-			HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-		
Supplier Name: WEICHEM INC. Address: 5734 Susitna Drive Harahan, LA 70123			PROPER SHIPPING NAME: Compounds, Cleaning Liquid, (Potassium Hydroxide), 8, NA 1760, PG II Identity (trade name as used on label): HULK DEGREASER #1		
Date Prepared: 04/20/95		Prepared By: Charito Kuylen		MSDS Number: 3350G Revision - 09/01/95	
Information Calls: (504) 733-1152 EMERGENCY RESPONSE NUMBER: 1-800-535-5053			NOTICE: Judgment Based on Indirect Test Data		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)
POTASSIUM HYDROXIDE		1310-58-3	NO	N/A	2MG/M3
DIPOTASSIUM EDTA		2001-94-7	NO	NO	N/A
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: 212 DEG. F (IBP)			Specific Gravity (H2O=1): 1.015 +/- 0.01		
Vapor Pressure PSIG @ 70 DEG. F (AEROSOLS) N/D			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D		
Vapor Density (Air =1): N/D			Evaporation Rate (VS H2O): ABOUT THE SAME		
Solubility in Water: COMPLETE			Water Reactive: NO		
Appearance and Odor: CLEAR, BLUE LIQUID WITH NO DISTINCT ODOR. PB: 14					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
FLAMMABILITY as per CPSC FLAME EXTENSION TEST (aerosols) N/D		Auto Ignition Temperature N/D		Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A	
FLASH POINT AND METHOD USED: NONE TO BOILING (T.C.C.) CONCENTRATE NON-FLAMMABLE		EXTINGUISHER MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE, WATER. SPECIAL FIRE FIGHTING PROCEDURES: NONE			
Unusual Fire & Explosion Hazards: NONE					
SECTION 4 - REACTIVITY HAZARD DATA					
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE		HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
Incompatibility (Mat. to avoid): STRONG OXIDIZERS, ACIDS		Conditions to Avoid: N/A			
Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE					
SECTION 5 - HEALTH HAZARD DATA					
PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS					
ACUTE EFFECTS					
Inhalation: INHALATION OF GENERATED MISTS CAN CAUSE NASAL AND RESPIRATORY IRRITATION OR DAMAGE TO RESPIRATORY TRACT.					
Eye Contact: IRRITATION AND BURNING.			Skin Contact: CORROSIVE. IRRITATION AND BURNING.		
Ingestion: CORROSIVE MATERIAL. HARMFUL OR FATAL IF SWALLOWED					
CHRONIC EFFECTS: DERMATITIS.					
Medical Conditions Generally Aggravated by Exposure: MAY AGGRAVATE EXISTING EYE, SKIN, OR UPPER RESPIRATORY CONDITION.					
EMERGENCY FIRST AID PROCEDURES					
Eye Contact: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.					
Skin Contact: WASH WITH SOAP AND WATER. IF IRRITATED, SEEK MEDICAL ATTENTION.					
Inhalation: REMOVE TO FRESH AIR. RESUSCITATE IF NECESSARY. GET MEDICAL ATTENTION.					
Ingestion: DO NOT INDUCE VOMITING. DRINK TWO LARGE GLASSES OF WATER. GET IMMEDIATE MEDICAL ATTENTION.					
SECTION 6 - CONTROL AND PROTECTIVE MEASURES					
Respiratory Protection (specify type): NONE REQUIRED UNDER NORMAL USE CONDITIONS.					
Protective Gloves: CHEMICAL RESISTANT, RUBBER, PVC			Eye Protection: SAFETY GLASSES/GOGGLES		
Ventilation Requirements: LOCAL EXHAUST					
Other Protective Clothing & Equipment: FACE SHIELD, APRON, BOOTS DEPENDING ON EXTENT OF EXPOSURE.					
Hygienic Work Practices: WASH WITH SOAP AND WATER BEFORE HANDLING FOOD.					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE					
Steps To Be Taken If Material Is Spilled Or Released: ABSORB WITH SUITABLE MEDIUM.					
Waste Disposal Methods: DISPOSE OF ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS.					
Precautions To Be Taken In Handling & Storage: WARNING: CORROSIVE LIQUID. HANDLE ALL CONTAINERS CAREFULLY.					
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.					

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.
 ** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only
 N/A = NOT AVAILABLE N/D = NOT DETERMINED

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION	
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special- Supplier Name: WEICHEM INC. Address: 5734 Susitna Drive Harahan, LA 70123 Date Prepared: 04/13/95 Prepared By: Charito Kuylen Information Calls: (504) 733-1152 EMERGENCY RESPONSE NUMBER: 1-800-535-5053	HMIS Rating: Health-3; Flammability-0; Reactivity-0; Personal Protection- PROPER SHIPPING NAME: Compounds, Cleaning Liquid, (Potassium Hydroxide), & NA 1760, PG II Identity (trade name as used on label): HULK SYSTEM #1 COMPONENT A MSDS Number: 3351G Revision - 09/01/95 NOTICE: Judgment Based on Indirect Test Data

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
POTASSIUM HYDROXIDE	1310-58-3	NO	N/A	2MG/M3	D
DIPOTASSIUM EDTA	2001-94-7	NO	N/A	N/A	D

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point: 214 DEG. F (IBP) Vapor Pressure: PSIG @ 70 DEG. F (AEROSOLS): N/D Vapor Density (Air =1): N/D Solubility In Water: COMPLETE Appearance and Odor: CLEAR, COLORLESS LIQUID WITH NO DISTINCT ODOR. PH: 14	Specific Gravity (H2O=1): 1.377 +/- 0.01 Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D Evaporation Rate: (VS H2O) ABOUT THE SAME Water Reactive: NO

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST (AEROSOLS): N/A FLASH POINT AND METHOD USED: NONE TO BOILING CONCENTRATE NON-FLAMMABLE Unusual Fire & Explosion Hazards: NONE	Auto Ignition Temperature: N/D EXTINGUISHER MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE, WATER. SPECIAL FIRE FIGHTING PROCEDURES: NONE	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE Incompatibility (Mat. to avoid): STRONG OXIDIZERS, ACIDS Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR Conditions to Avoid: N/A

SECTION 5 - HEALTH HAZARD DATA	
PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS Inhalation: INHALATION OF GENERATED MISTS CAN CAUSE NASAL AND RESPIRATORY IRRITATION OR DAMAGE TO RESPIRATORY TRACT. Eye Contact: IRRITATION AND BURNING. Skin Contact: CORROSIVE. IRRITATION AND BURNING. Ingestion: CORROSIVE MATERIAL. HARMFUL OR FATAL IF SWALLOWED CHRONIC EFFECTS: DERMATITIS. Medical Conditions Generally Aggravated by Exposure: MAY AGGRAVATE EXISTING EYE, SKIN, OR UPPER RESPIRATORY CONDITION.	

EMERGENCY FIRST AID PROCEDURES	
Eye Contact: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION. Skin Contact: WASH WITH SOAP AND WATER. IF IRRITATED, SEEK MEDICAL ATTENTION. Inhalation: REMOVE TO FRESH AIR. RESUSCITATE IF NECESSARY. GET MEDICAL ATTENTION. Ingestion: DO NOT INDUCE VOMITING. DRINK TWO LARGE GLASSES OF WATER. GET IMMEDIATE MEDICAL ATTENTION.	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES	
Respiratory Protection (specify type): NONE REQUIRED UNDER NORMAL USE CONDITIONS.	
Protective Gloves: CHEMICAL RESISTANT, RUBBER, PVC Ventilation Requirements: LOCAL EXHAUST Other Protective Clothing & Equipment: FACE SHIELD, APRON, BOOTS DEPENDING ON EXTENT OF EXPOSURE.	Eye Protection: SAFETY GLASSES/GOGGLES Hygienic Work Practices: WASH WITH SOAP AND WATER BEFORE HANDLING FOOD.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps To Be Taken If Material is Spilled Or Released: ABSORB WITH SUITABLE MEDIUM. Waste Disposal Methods: DISPOSE OF ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS. Precautions To Be Taken in Handling & Storage: WARNING: CORROSIVE LIQUID. HANDLE ALL CONTAINERS CAREFULLY. Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.	

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.
 ** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only
 N/A = NOT AVAILABLE N/D = NOT DETERMINED

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION					
NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special-			HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-		
Supplier Name: WECHEM INC. Address: 5734 Susitna Drive Harahan, LA 70123			PROPER SHIPPING NAME: CLEANING COMPOUNDS, LIQUID N.O.I. Identity (trade name as used on label): HULK SYSTEM #1 COMPONENT B		
Date Prepared: 04/19/95		Prepared By: CHARITO KUYLEN		MSDS Number: 3352G Revision - 09/01/95	
Information Calls: (504) 733-1152 EMERGENCY RESPONSE NUMBER: 1-800-535-5053			NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)			CAS Number	SARA III LIST	OSHA PEL (ppm)
SPECIFIC CHEMICAL IDENTITY IS BEING WITHHELD AS TRADE SECRET AS PER CFR 1910					ACGIH TLV (ppm)
Carcinogen Ref. Source **					
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: 213 DEG. F (IBP)			Specific Gravity (H2O=1): 1.011 +/- 0.01		
Vapor Pressure PSIG @ 70 DEG. F (AEROSOLS): N/D			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D		
Vapor Density (Air = 1): N/D			Evaporation Rate(VS. H2O): SLOWER		
Solubility in Water: COMPLETE			Water Reactive: no		
Appearance and Odor: CLEAR, DARK BLUE LIQUID WITH CHARACTERISTIC ODOR. PB: 7.3 +/- 0.5					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST (AEROSOLS): N/A		Auto Ignition Temperature N/A		Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A	
FLASH POINT AND METHOD USED: NONE TO BOILING (T.C.C.) CONCENTRATE NON-FLAMMABLE			EXTINGUISHER MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE, WATER SPECIAL FIRE FIGHTING PROCEDURES: NONE		
Unusual Fire & Explosion Hazards: NONE					
SECTION 4 - REACTIVITY HAZARD DATA					
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE			HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR		
Incompatibility (Mat. to avoid): STRONG OXIDIZERS, ACIDS			Conditions to Avoid: N/A		
Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE					
SECTION 5 - HEALTH HAZARD DATA					
PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS					
ACUTE EFFECTS					
Inhalation: INHALATION OF GENERATED MISTS CAN CAUSE NASAL AND RESPIRATORY IRRITATION OR DAMAGE TO RESPIRATORY TRACT.					
Eye Contact: IRRITATION AND BURNING.			Skin Contact: IRRITATION AND REDNESS		
Ingestion: HARMFUL OR FATAL IF SWALLOWED.					
CHRONIC EFFECTS: PROLONGED SKIN CONTACT MAY RESULT IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS. MAY AGGRAVATE EXISTING EYE, SKIN OR UPPER RESPIRATORY CONDITIONS.					
Medical Conditions Generally Aggravated by Exposure: EXISTING DERMATITIS.					
EMERGENCY FIRST AID PROCEDURES					
Eye Contact: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.					
Skin Contact: WASH WITH SOAP AND WATER. IF IRRITATED, SEEK MEDICAL ATTENTION.					
Inhalation: REMOVE TO FRESH AIR. RESUSCITATE IF NECESSARY. GET MEDICAL ATTENTION.					
Ingestion: DO NOT INDUCE VOMITING. DRINK TWO LARGE GLASSES OF WATER. GET IMMEDIATE MEDICAL ATTENTION.					
SECTION 6 - CONTROL AND PROTECTIVE MEASURES					
Respiratory Protection (specify type): NONE REQUIRED UNDER NORMAL USE CONDITIONS.					
Protective Gloves: CHEMICAL RESISTANT/RUBBER			Eye Protection: SAFETY GLASSES/GOGGLES		
Ventilation Requirements: LOCAL EXHAUST					
Other Protective Clothing & Equipment: FACE SHIELD, APRON, BOOTS DEPENDING ON EXTENT OF EXPOSURE.					
Hygienic Work Practices: WASH WITH SOAP AND WATER BEFORE HANDLING FOOD.					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE					
Steps To Be Taken If Material Is Spilled Or Released: ABSORB WITH SUITABLE MEDIUM.					
Waste Disposal Methods: DISPOSE OF ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS.					
Precautions To Be Taken In Handling & Storage: HANDLE ALL CONTAINERS CAREFULLY.					
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.					

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.
** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

N/D - NOT DETERMINED

N/A - NOT AVAILABLE

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION					
NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special-			HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-		
Supplier Name: WEICHEM INC. Address: 5734 Susitna Drive Harahan, LA 70123			PROPER SHIPPING NAME: CLEANING COMPOUNDS, LIQUID N.O.I. Identity (trade name as used on label): HULK SYSTEM #1 COMPONENT B		
Date Prepared: 04/19/95 Prepared By: CHARITO KUYLEN			MSDS Number: 3352G Revision - 09/01/95		
Information Calls: (504) 733-1152 EMERGENCY RESPONSE NUMBER: 1-800-535-5053			NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)
SPECIFIC CHEMICAL IDENTITY IS BEING WITHHELD AS TRADE SECRET AS PER CFR 1910					
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: 213 DEG. F (IBP)		Specific Gravity (H2O=1): 1.011 +/- 0.01			
Vapor Pressure PSIG @ 70 DEG. F (AEROSOLS): N/D		Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D			
Vapor Density (Air = 1): N/D		Evaporation Rate(VS. H2O): SLOWER			
Solubility in Water: COMPLETE		Water Reactive: No			
Appearance and Odor: CLEAR, DARK BLUE LIQUID WITH CHARACTERISTIC ODOR. PH: 7.3 +/- 0.5					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST (AEROSOLS): N/A		Auto Ignition Temperature N/A		Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A	
FLASH POINT AND METHOD USED: NONE TO BOILING (T.C.C.) CONCENTRATE NON-FLAMMABLE		EXTINGUISHER MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE, WATER SPECIAL FIRE FIGHTING PROCEDURES: NONE			
Unusual Fire & Explosion Hazards: NONE					
SECTION 4 - REACTIVITY HAZARD DATA					
STABILITY [X] STABLE [] UNSTABLE		HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR			
Incompatibility (Mat. to avoid): STRONG OXIDIZERS, ACIDS		Conditions to Avoid: N/A			
Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE					
SECTION 5 - HEALTH HAZARD DATA					
PRIMARY ROUTES OF ENTRY: [] INHALATION [X] INGESTION [X] SKIN ABSORPTION [X] EYE [] NOT HAZARDOUS					
ACUTE EFFECTS					

Floor
Sweep



MATERIAL SAFETY DATA SHEET

*A division of Peat "T" Inc. MSDS Number: #2

I. PRODUCT DESCRIPTION

JULY, 1990

Product Name:	PEAT SORB OIL ABSORBENT
Chemical Synonyms:	NONE
Chemical Family:	PEAT MOSS
Emergency Telephone Number:	(403) 436-1002

Hazard Rating	Least 0 Slight 1 Moderate 2 High 3 Extreme 4
Health:	0
Fire:	1
Reactivity:	0

II. INGREDIENTS

Composition	Exposure Limits	%
PEAT	NUISANCE PARTICULATE 10 mg/m ³	85%
MOISTURE	N/A	0-10%

III. HEALTH INFORMATION

CHRONIC AND ACUTE EFFECTS OF OVER EXPOSURE
Inhalation: MAY CAUSE SLIGHT IRRITATION WITH VERY HIGH CONCENTRATIONS
Ingestion: NO KNOWN HAZARD
Eyes: DUST PARTICLES MAY CAUSE MINOR EYE IRRITATION
Skin: NO KNOWN HAZARD
Applies to unused PEAT SORB.
Toxic Data: ESTABLISHED

IV. PERSONAL PROTECTION INFORMATION

Ventilation:	ADEQUATE VENTILATION SHOULD BE AVAILABLE TO KEEP DUST CONCENTRATIONS BELOW EXPOSURE LIMITS.
Respiratory Protection:	A NIOSH APPROVED DUST RESPIRATOR SHOULD BE WORN WHEN DUST STANDARDS ARE EXCEEDED.
Eye Protection:	SAFETY GLASSES WITH SIDE SHIELDS ARE RECOMMENDED.
Skin Protection:	PROTECTIVE CLOTHING IS NOT NECESSARY FOR PEAT SORB, BUT MAY BE REQUIRED TO HANDLE ABSORBED HYDROCARBONS.
Other:	WASHING FACILITIES SHOULD BE AVAILABLE.

V. EMERGENCY & FIRST AID PROCEDURES

Inhalation:	REMOVE TO FRESH AIR.
Ingestion:	DO NOT INDUCE VOMITING.
Eyes:	FLUSH EYES WITH RUNNING WATER TO REMOVE PARTICLES.
Skin:	WASH IRRITATED AREAS WITH MILD SOAP AND WATER.
IF IRRITATION OR DISCOMFORT PERSISTS, CONSULT A PHYSICIAN.	
Note to Physician: SYMPTOMATIC TREATMENT	

VI. PHYSICAL DATA

Boiling Point:	Melting Point:	Vapor Pressure:
N/A	N/A	N/A
Vapor Density:	Solubility in H ₂ O:	Appearance, Odor.
N/A	NOT SOLUBLE	BROWN, FIBROUS, LOOSE
pH:	% Volatile by Weight:	Evaporation Rate.
4 - 6	N/A	N/A

VII. FIRE & EXPLOSION HAZARDS

Flash Point & Method Used:	Lower Flammable Limits in Air % by Volume:
N/A	N/A
Auto Ignition Temperature: 500°F 260°C	
Extinguishing Method: USE MEDIA NEEDED TO CONTROL SURROUNDING FIRE	
Special Fire Fighting Procedures & Precautions: STANDARD FIRE PROTECTION EQUIPMENT	
Unusual Fire & Explosion Hazards: WILL WICK PETROLEUM-BASED PRODUCTS ON OPEN FLAME	

VIII. REACTIVITY

Stability:	Hazardous Polymerization:
STABLE	NOT KNOWN TO OCCUR
Conditions & Materials to Avoid: STRONG ACIDS pH 2-3	
Hazardous Decomposition Products: NONE KNOWN	

IX. SPILL OR LEAK PROCEDURES

Emergency Action:
SWEEP UP AND CONTAINERIZE IF UNUSED
Waste Disposal:
UNUSED PEAT SORB IS NOT HAZARDOUS. DISPOSE OIL-SATURATED PEAT SORB ACCORDING TO LOCAL REGULATIONS GOVERNING MATERIAL ABSORBED

X. STORAGE & TRANSPORTATION REQUIREMENTS

Storage Precautions:
STORE IN DRY PLACE TO PREVENT UNWANTED MOISTURE UPTAKE
Other Precautions:
NONE
Transportation Requirements:
NORMAL FREIGHT

Due to the variety of liquids and chemicals involved in spills, the manufacturer cannot recommend disposal procedures or guarantee the performance of PEAT SORB other than to replace such quantity of product proved to be defective. PEAT SORB disclaims any liability for loss or damage incurred in connection with the use of this substance.





Material Safety Data Sheet

CHEVRON Torque Fluid

CPS226705

Page 1 of 6

EDDINS-WALCHER CO

5408360

MATERIAL ORDERED FOR:

DELD LUBES

1400 W BROADWAY

PO BOX 1920

HOBBS, NM 88240

MIDLAND, TX 79702

Print Date: August 15, 1991

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

This is a new Material Safety Data Sheet.

1. PRODUCT IDENTIFICATION

CHEVRON Torque Fluid

- A HAZARD WARNING IS NOT REQUIRED FOR THIS PRODUCT UNDER
OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

PRODUCT NUMBER(S): CPS226705

PRODUCT INFORMATION: (800)582-3835

Revision Number: 0

Revision Date: 01/26/91

MSDS Number: 004641

NDA - No Data Available

NA - Not Applicable

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

2. FIRST AID - EMERGENCY NUMBER (800)457-2022 OR (415)233-3737

EYE CONTACT:

No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

SKIN CONTACT:

No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

INHALATION:

Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

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

EYE CONTACT:

This substance is not expected to cause prolonged or significant eye irritation. This hazard evaluation is based on the data from similar materials.

SKIN IRRITATION:

This substance is not expected to cause prolonged or significant skin irritation. This hazard evaluation is based on data from similar materials.

DERMAL TOXICITY:

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

RESPIRATORY/INHALATION:

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

INGESTION:

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

4. PROTECTIVE EQUIPMENT

EYE PROTECTION:

No special eye protection is usually necessary.

SKIN PROTECTION:

No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be

Revision Number: 0

Revision Date: 01/26/91

MSDS Number: 004641

NDA - No Data Available

NA - Not Applicable

minimized by wearing protective clothing.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required. However, if operating conditions create high airborne concentrations, the use of an approved respirator is recommended.

VENTILATION:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

5. FIRE PROTECTION

FLASH POINT: (COC) 363F (184C) Min.

AUTOIGNITION: NDA

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

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Foam, Water Fog

NFPA RATINGS: Health 0; Flammability 1; Reactivity 0; Special NDA;

HMIS RATINGS: Health 0; Flammability 1; Reactivity 0; Other NDA;

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

FIRE FIGHTING PROCEDURES:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Incomplete combustion can produce carbon monoxide.

6. STORAGE, HANDLING, AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

INCOMPATIBILITY:

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

SPECIAL PRECAUTIONS:

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or explosion may result.

Revision Number: 0

Revision Date: 01/26/91

MSDS Number: 004641

NDA - No Data Available

NA - Not Applicable

7. PHYSICAL PROPERTIES

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

APPEARANCE: Pale yellow liquid.

BOILING POINT: NDA

MELTING POINT: NA

EVAPORATION: NA

SPECIFIC GRAVITY: 0.87 @ 15.6/15.6C

VAPOR PRESSURE: NA

PERCENT VOLATILE (VOLUME %): NA

VAPOR DENSITY (AIR=1): NA

VISCOSITY: 5.61 cSt @ 100C (Min.)

8. ENVIRONMENTAL CONCERNS, SPILL RESPONSE AND DISPOSAL

CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300 (24 hour).

SPILL/LEAK PRECAUTIONS:

This material is not expected to present any environmental problems other than those associated with oil spills.

Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

DISPOSAL METHODS:

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

9. EXPOSURE STANDARDS, REGULATORY LIMITS AND COMPOSITION

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

Based upon information reviewed to date, this product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5mg/m³, the OSHA PEL is 5mg/m³.

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

Revision Number: 0

Revision Date: 01/26/91

MSDS Number: 004641

NDA - No Data Available

NA - Not Applicable

PERCENT/CAS# COMPONENT/REGULATORY LIMITS

100.0 % CHEVRON Torque Fluid

CONTAINING

> 90.0 % LUBRICATING BASE OIL

The BASE OIL may be a mixture of any of the following: CAS 64741884,
CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525,
CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, CAS 72623837.

< 10.0 % ADDITIVES

TLV - Threshold Limit Value
STEL - Short-term Exposure Limit
RQ - Reportable Quantity
CC - Chevron Chemical Company

TWA - Time Weighted Average
TPQ - Threshold Planning Quantity
CPS - CUSA Product Code
CAS - Chemical Abstract Service Number

10. REGULATORY INFORMATION

DOT SHIPPING NAME: NDA

DOT HAZARD CLASS: NDA

DOT IDENTIFICATION NUMBER: NDA

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects; NO
2. Delayed (Chronic) Health Effects; NO
3. Fire Hazard; NO
4. Sudden Release of Pressure Hazard; NO
5. Reactivity Hazard; NO

None of the components of this material are found on the regulatory lists shown below.

REGULATORY LISTS SEARCHED:

01=SARA 313	02=MASS RTK	03=NTP Carcinogen
04=CA Prop. 65	05=MI 406	06=IARC Group 1
07=IARC Group 2A	08=IARC Group 2B	09=SARA 302/304
10=PA RTK	11=NJ RTK	12=CERCLA 302.4
13=MN RTK	14=ACGIH TLV	15=ACGIH STEL
16=ACGIH Calculated TLV	17=OSHA TWA	18=OSHA STEL
19=Chevron TLV	20=EPA Carcinogen	21=TSCA Sect 4(e)
22=TSCA Sect 5(a)(e)(f)	23=TSCA Sect 6	24=TSCA Sect 12(b)
25=TSCA Sect 8(a)	26=TSCA Sect 8(d)	27=TSCA Sect 8(e)
28=Canadian WHMIS	29=OSHA CEILING	30=TSCA Sect 8 FYI

11. PRODUCT TOXICOLOGY DATA

EYE IRRITATION:

Revision Number: 0

Revision Date: 01/26/91

MSDS Number: 004641

NDA - No Data Available

NA - Not Applicable

NDA. The hazard evaluation was based on data from similar materials.

SKIN IRRITATION:

NDA. The hazard evaluation was based on data from similar materials.

DERMAL TOXICITY:

NDA. The hazard evaluation was based on data from similar materials.

RESPIRATORY/INHALATION:

NDA. The hazard evaluation was based on data from similar materials.

INGESTION:

NDA. The hazard evaluation was based on data from similar materials.

12. ADDITIONAL HEALTH DATA

ADDITIONAL HEALTH DATA COMMENT:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

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

Revision Number: 0

Revision Date: 01/26/91

MSDS Number: 004641

NDA - No Data Available

NA - Not Applicable



Material Safety Data Sheet

Page 1 of 7

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Ultra-Duty Grease EP NLGI 2

PRODUCT NUMBER(S): CPS238011

COMPANY IDENTIFICATION

Chevron USA Products Company
Environmental, Safety, and Health
575 Market St., Room 2900
San Francisco, CA 94105-2856

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or
(510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (202)483-7616

PRODUCT INFORMATION: (800)582-3835
(800)228-3500 MSDS Requests

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory. This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m³, the OSHA PEL is 5 mg/m³.

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

100.0 % CHEVRON Ultra-Duty Grease EP NLGI 2

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
LUBRICATING BASE OIL			
SEVERELY REFINED PETROLEUM DISTILLATE			
	> 70.0%	5 mg/m ³ (mist)	ACGIH TWA
		10 mg/m ³ (mist)	ACGIH STEL
		5 mg/m ³ (mist)	OSHA PEL

Revision Number: 4 Revision Date: 07/22/93 MSDS Number: 004501
NDA - No Data Available NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard
(29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology
and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804

X-005051 (06)

The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

LITHIUM BASE THICKENERS

< 10.0%

ADDITIVES

< 20.0%

TLV - Threshold Limit Value
STEL - Short-term Exposure Limit
RQ - Reportable Quantity
C - Ceiling Limit
A1-5 - Appendix A Categories

TWA - Time Weighted Average
TPQ - Threshold Planning Quantity
PEL - Permissible Exposure Limit
CAS - Chemical Abstract Service Number
() - Change Has Been Proposed

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS**EYE:**

This substance is not expected to cause prolonged or significant eye irritation.

SKIN:

This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

INGESTION:

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed.

INHALATION:

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled.

4. FIRST AID MEASURES

EYE:

No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

SKIN:

No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical

Revision Number: 4**Revision Date: 07/22/93****MSDS Number: 004501****NDA - No Data Available****NA - Not Applicable**

advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

INHALATION:

Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

NOTE TO PHYSICIANS:

In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: NA

AUTOIGNITION: NDA

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

EXTINGUISHING MEDIA:

CO₂, Dry Chemical, Foam, Water Fog

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616

ACCIDENTAL RELEASE MEASURES:

Clean up spills immediately, observing precautions in Exposure Controls/ Personal Protection section.

7. HANDLING AND STORAGE

HANDLING AND STORAGE:

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or drum may rupture with explosive force.

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NDA - No Data Available

NA - Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is usually necessary.

SKIN PROTECTION:

No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required. However, if operating conditions create high airborne concentrations, the use of an approved respirator is recommended.

ENGINEERING CONTROLS:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Red grease.

pH:	NDA
VAPOR PRESSURE:	NA
VAPOR DENSITY	
(AIR=1):	NA
BOILING POINT:	NA
FREEZING POINT:	NDA
MELTING POINT:	NDA
SOLUBILITY:	Soluble in hydrocarbon solvents; insoluble in water.
SPECIFIC GRAVITY:	NDA
DENSITY:	NDA
EVAPORATION RATE:	NA
VISCOSITY:	22 cSt @ 100C (Min.)
PERCENT VOLATILE	
(VOL):	NA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

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

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NDA - No Data Available

NA - Not Applicable

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

The Draize Eye Irritation Score (range, 0-110) in rabbits is 2.3/110.

SKIN EFFECTS:

The Draize Skin Primary Irritation Score (range, 0-8) for a 4-hour exposure (rabbits) is 0.6/8.0. The dermal LD50 in rabbits is greater than 2.0 g/kg.

ACUTE ORAL EFFECTS:

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

ACUTE INHALATION EFFECTS:

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

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

This material is not expected to present any environmental problems other than those associated with oil spills.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

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MSDS Number: 004501

NDA - No Data Available

NA - Not Applicable

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE
FEDERAL DOT
DOT HAZARD CLASS: NOT APPLICABLE
DOT IDENTIFICATION NUMBER: NOT APPLICABLE
DOT PACKING GROUP: NOT APPLICABLE

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects:	NO
2. Delayed (Chronic) Health Effects:	NO
3. Fire Hazard:	NO
4. Sudden Release of Pressure Hazard:	NO
5. Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	21=TSCA Sect 4(e)
02=MASS RTK	12=CERCLA 302.4	22=TSCA Sect 5(a)(e)(f)
03=NTP Carcinogen	13=MN RTK	23=TSCA Sect 6
04=CA Prop 65-Carcin	14=ACGIH TWA	24=TSCA Sect 12(b)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	25=TSCA Sect 8(a)
06=IARC Group 1	16=ACGIH Calc TLV	26=TSCA Sect 8(d)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	19=Chevron TWA	29=OSHA CEILING
09=SARA 302/304	20=EPA Carcinogen	30=Chevron STEL
10=PA RTK		

The following components of this material are found on the regulatory lists indicated.

SEVERELY REFINED PETROLEUM DISTILLATE
is found on lists: 14,15,17,

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;
(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Revision Number: 4 Revision Date: 07/22/93 MSDS Number: 004501
NDA - No Data Available NA - Not Applicable

REVISION STATEMENT:

Revised to update Section 2 (Composition) and Section 4 (First Aid Measures) and revises the MSDS to comply with the ANSI Z400.1 Standard.

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

Revision Number: 4

Revision Date: 07/22/93

MSDS Number: 004501

NDA - No Data Available

NA - Not Applicable



Material Safety Data Sheet

CHEVRON Automatic Transmission Fluid (DEXRON II)

CPS226502

Page 1 of 7

EDDINS-WALCHER CO
DELD LUBES
PO BOX 1920
MIDLAND, TX 79702

5408360

MATERIAL ORDERED FOR:
1400 W BROADWAY
HOBBS, NM 88240

Print Date: September 21, 1991

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

Revised to update section 5 (Ratings) and 9 (Composition).

1. PRODUCT IDENTIFICATION

CHEVRON Automatic Transmission Fluid (DEXRON II)

- A HAZARD WARNING IS NOT REQUIRED FOR THIS PRODUCT UNDER
OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

PRODUCT NUMBER(S): CPS226502

PRODUCT INFORMATION: (800)582-3835

Revision Number: 15

Revision Date: 09/07/91

MSDS Number: 000021

NDA - No Data Available

NA - Not Applicable

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

2. FIRST AID - EMERGENCY NUMBER (800)457-2022 OR (510)233-3737

EYE CONTACT:

No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

SKIN CONTACT:

No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

INHALATION:

Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

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

EYE CONTACT:

This substance is not expected to cause prolonged or significant eye irritation. This hazard evaluation is based on the data from similar materials.

SKIN IRRITATION:

This substance is not expected to cause prolonged or significant skin irritation. This hazard evaluation is based on data from similar materials.

DERMAL TOXICITY:

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

RESPIRATORY/INHALATION:

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

INGESTION:

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

4. PROTECTIVE EQUIPMENT

EYE PROTECTION:

No special eye protection is usually necessary.

SKIN PROTECTION:

No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be

Revision Number: 15

Revision Date: 09/07/91

MSDS Number: 000021

NDA - No Data Available

NA - Not Applicable

minimized by wearing protective clothing.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.

VENTILATION:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

5. FIRE PROTECTION

FLASH POINT: (COC) 160C (320F) Min.

AUTOIGNITION: NDA

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

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Alcohol Foam and Water Fog.

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

FIRE FIGHTING PROCEDURES:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Incomplete combustion can produce carbon monoxide.

6. STORAGE, HANDLING, AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA.

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

INCOMPATIBILITY:

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

SPECIAL PRECAUTIONS:

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or explosion may result.

7. PHYSICAL PROPERTIES

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

APPEARANCE: Red liquid.

BOILING POINT: NDA

MELTING POINT: NA

EVAPORATION: NA

SPECIFIC GRAVITY: 0.89 @ 15.6/15.6C

VAPOR PRESSURE: NA

PERCENT VOLATILE (VOLUME %): NA

VAPOR DENSITY (AIR=1): NA

VISCOSITY: 35.3 cst @ 40c

8. ENVIRONMENTAL CONCERNS, SPILL RESPONSE AND DISPOSAL

CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300 (24 hour).

SPILL/LEAK PRECAUTIONS:

This material is not expected to present any environmental problems other than those associated with oil spills.

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Protective Equipment. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

DISPOSAL METHODS:

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

9. EXPOSURE STANDARDS, REGULATORY LIMITS AND COMPOSITION

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m³, the OSHA PEL is 5 mg/m³.

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

PERCENT/CAS# COMPONENT/REGULATORY LIMITS

Revision Number: 15

Revision Date: 09/07/91

MSDS Number: 000021

NDA - No Data Available

NA - Not Applicable

100.0 % CHEVRON Automatic Transmission Fluid (DEXRON II)

CONTAINING

> 85.0 % DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC
CAS64742525 5 mg/m3 mist ACGIH TLV
10mg/m3 mist ACGIH STEL
5mg/m3 mist OSHA TWA

DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC
CAS64742536 5mg/m3 mist ACGIH TLV
10mg/m3 mist ACGIH STEL
5mg/m3 mist OSHA TWA

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC
CAS64742547 5mg/3 mist ACGIH TLV
10mg/m3 mist ACGIH STEL
5mg/m3 mist OSHA TWA

AND

DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC
CAS64742650

< 15.0 % ADDITIVES

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	CPS - CUSA Product Code
CC - Chevron Chemical Company	CAS - Chemical Abstract Service Number

10. REGULATORY INFORMATION

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE
FEDERAL DOT

DOT HAZARD CLASS: NOT APPLICABLE

DOT IDENTIFICATION NUMBER: NOT APPLICABLE

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects; NO
2. Delayed (Chronic) Health Effects; NO
3. Fire Hazard; NO
4. Sudden Release of Pressure Hazard; NO
5. Reactivity Hazard; NO

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

DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC
is found on lists: 14,15,17,

DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC
is found on lists: 14,15,17,

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

Revision Number: 15

Revision Date: 09/07/91

MSDS Number: 000021

NDA - No Data Available

NA - Not Applicable

is found on lists: 14,15,17,

REGULATORY LISTS SEARCHED:

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

11. PRODUCT TOXICOLOGY DATA**EYE IRRITATION:**

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

SKIN IRRITATION:

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

DERMAL TOXICITY:

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

RESPIRATORY/INHALATION:

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

INGESTION:

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

12. ADDITIONAL HEALTH DATA**ADDITIONAL HEALTH DATA COMMENT:**

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

Revision Number: 15

Revision Date: 09/07/91

MSDS Number: 000021

NDA - No Data Available

NA - Not Applicable

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

MOBIL

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MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

APPROVAL DATE: 06/03/94

PRODUCT NAME: MOBIL REGULAR 30
SUPPLIER: MOBIL OIL CORP.
PRODUCTS AND TECHNOLOGY DEPT.
3225 GALLOWES RD.
FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411
Product and MSDS Information: 800-662-4525 703-849-3265
CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by regulatory agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.
EFFECTS OF OVEREXPOSURE: No significant effects expected.
EMERGENCY RESPONSE DATA: Brown Liquid. DOT ERG No. - NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Wash contact areas with soap and water.
INHALATION: Not expected to be a problem.
INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spill away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): >

210(410) (ASTM D-93). Flammable limits - LEL: NA, UEL: NA.

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a threshold limit value of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Brown

ODOR: Mild

ODOR THRESHOLD: NA

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): > 210(410) (ASTM D-93)

FLAMMABILITY: NA

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0

EVAPORATION RATE: NA

RELATIVE DENSITY, 15/4 C: 0.884

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 88.8

VISCOSITY AT 100 C, cSt: > 9.5

POUR POINT C(F): -12(10)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: EXEMPT IN U.S.

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

Mobil

MOBIL REGULAR 30

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10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less).

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3).

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products. Exposure to vapors generated at 400F at levels 400 times the TLV for oil mists (5 mg/m³), then cooled to room temperature, resulted in no significant adverse effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal applications to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations, including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

Dermal exposure of pregnant rats to representative formulations did not cause adverse effects in either the mothers or their offspring.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using the Mobil Modified Ames Test.

(Section continued next page)

MOBIL

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---SENSITIZATION (SUMMARY)---

Representative Mobil formulations have not caused skin sensitization in guinea pigs.

---OTHER TOXICOLOGY DATA---

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

MODII

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15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, and EINECS/ELINCS.

EU Classification and Labeling: EU labeling not required.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under
SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
ZINC (ELEMENTAL ANALYSIS) (0.05%)	7440-66-6	22
PHOSPHORODITHIOIC ACID, O,O-DI	68649-42-3	22
C1-14-ALKYL ESTERS, ZINC SALTS (2: 1) (ZDDP) (0.58%)		

--- REGULATORY LISTS SEARCHED ---

1 - ACGIH ALL	6 - IARC 1	11 - TSCA 4	17 - CA P65	22 - MI 293
2 - ACGIH A1	7 - IARC 2A	12 - TSCA 5a2	18 - CA RTK	23 - MN RTK
3 - ACGIH A2	8 - IARC 2B	13 - TSCA 5e	19 - FL RTK	24 - NJ RTK
4 - NTP CARC	9 - OSHA CARC	14 - TSCA 6	20 - IL RTK	25 - PA RTK
5 - NTP SUS	10 - OSHA Z	15 - TSCA 12b	21 - LA RTK	26 - RI RTK

Code key: CARC = Carcinogen; SUS = Suspected Carcinogen

MOBIL

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16. OTHER INFORMATION

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES**USE: AUTOMOTIVE ENGINE OIL****NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.**

See container label for ingredient information.

For Mobil Use Only: MHC: 1* 1* 0* 1* 1*, MPPEC: A, REQ: US -
MARKETING

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

Prepared by: Mobil Oil Corporation
Environmental Health and Safety Department, Princeton, NJ



Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON DELO 400 Multigrade SAE 15W-40

PRODUCT NUMBER(S): CPS235101 CPS238049

COMPANY IDENTIFICATION

Chevron USA Products Company
Environmental, Safety, and Health
Room 2900
575 Market St.
San Francisco, CA 94105-2856

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or
(510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (202)483-7616

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500
Environmental, Safety, & Health Info: (415) 894-1899
Product Information: (800) 582-3835

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON DELO 400 Multigrade SAE 15W-40

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
LUBRICATING BASE OIL			
SEVERELY REFINED PETROLEUM DISTILLATE			
	> 70.0%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

ADDITIVES INCLUDING THE FOLLOWING
< 30.0%

Revision Number: 2 Revision Date: 09/01/94 MSDS Number: 005602
NDA - No Data Available NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard
(29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology
and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804

ZINC ALKYL DITHIOPHOSPHATE

Chemical Name: PHOSPHORODITHIOIC ACID,O,O-DI-CL-14-ALKYL ESTERS, ZINC SALT
CAS68649423 < 1.6%

HEXANE

Chemical Name: HEXANE

CAS110543

< 0.1%

50 ppm

3500 mg/m3

1800 mg/m3

1 LBS

ACGIH TWA

ACGIH STEL

OSHA PEL

CERCLA 302.4 RQ

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

TLV - Threshold Limit Value

STEL - Short-term Exposure Limit

RQ - Reportable Quantity

C - Ceiling Limit

A1-5 - Appendix A Categories

TWA - Time Weighted Average

TPQ - Threshold Planning Quantity

PEL - Permissible Exposure Limit

CAS - Chemical Abstract Service Number

() - Change Has Been Proposed

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

Dark brown liquid.

- MAY CAUSE AN ALLERGIC SKIN REACTION
- KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYE:

This substance is not expected to cause prolonged or significant eye irritation. This hazard evaluation is based on the data from similar materials.

SKIN:

This substance is not expected to cause prolonged or significant skin irritation. The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. The skin sensitization potential of this product has not been determined. However, it contains an ingredient which is known to be a sensitizer in animals, and therefore prolonged or repeated skin contact with this product may cause an allergic skin reaction. This hazard evaluation is based on data from similar materials.

INGESTION:

The systemic toxicity of this substance has not been determined. However,

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NDA - No Data Available

NA - Not Applicable

it should be practically non-toxic to internal organs if swallowed. This hazard evaluation is based on data from similar materials.

INHALATION:

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled. Prolonged or repeated breathing of petroleum oil mist can cause respiratory irritation. This hazard evaluation is based on data from similar materials.

SIGNS AND SYMPTOMS OF EXPOSURE:

INHALATION: Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

4. FIRST AID MEASURES

EYE:

No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

SKIN:

Remove contaminated clothing. Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms described in this document occur. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

INHALATION:

If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 399F (204C) Min.

AUTOIGNITION: NDA

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

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Foam and Water Fog.

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur, nitrogen, phosphorus, and boron. Incomplete combustion can produce carbon monoxide.

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NDA - No Data Available

NA - Not Applicable

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616

ACCIDENTAL RELEASE MEASURES:

Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7. HANDLING AND STORAGE

HANDLING AND STORAGE:

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or drum may rupture with explosive force.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is usually necessary.

SKIN PROTECTION:

Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.

ENGINEERING CONTROLS:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Dark brown liquid.

pH: NDA

VAPOR PRESSURE: NA

VAPOR DENSITY

(AIR=1): NA

BOILING POINT: NA

FREEZING POINT: NDA

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NDA - No Data Available

NA - Not Applicable

MELTING POINT: NA
SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.
SPECIFIC GRAVITY: 0.89 @ 15.6/15.6C
EVAPORATION RATE: NA
VISCOSITY: 14.6 cSt @ 100C (Min.)
PERCENT VOLATILE
(VOL): NA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

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

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

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

SKIN EFFECTS:

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

ACUTE ORAL EFFECTS:

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

ACUTE INHALATION EFFECTS:

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

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains zinc alkyl dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to ZDDPs.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans

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NDA - No Data Available

NA - Not Applicable

(Group 2B).

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. See Chevron Material Safety Data Sheet No. 1793 for additional information on used motor oil.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

This material is not expected to present any environmental problems other than those associated with oil spills.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:

Oil collection services and collection centers are available for used motor oil recycling or disposal. Some service stations, automotive service centers, and retailers provide motor oil collection facilities.

Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE
FEDERAL DOT

DOT HAZARD CLASS: NOT APPLICABLE

DOT IDENTIFICATION NUMBER: NOT APPLICABLE

DOT PACKING GROUP: NOT APPLICABLE

15. REGULATORY INFORMATION

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Revision Date: 09/01/94

MSDS Number: 005602

NDA - No Data Available

NA - Not Applicable

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects:	YES
2. Delayed (Chronic) Health Effects:	NO
3. Fire Hazard:	NO
4. Sudden Release of Pressure Hazard:	NO
5. Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory lists indicated.

HEXANE

is found on lists: 02,10,11,12,13,14,15,17,27,28,
PHOSPHORODITHIOIC ACID,O,O-DI-CL-14-ALKYL ESTERS, ZINC SALTS

is found on lists: 01,11,
SEVERELY REFINED PETROLEUM DISTILLATE
is found on lists: 14,15,17,

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:

This Material Safety Data Sheet has been revised to comply with the ANSI Z400.1 Standard. Changes have also been made throughout this MSDS. Please read the entire document.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon

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NDA - No Data Available NA - Not Applicable

condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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NDA - No Data Available NA - Not Applicable



Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON DELO 400 SAE 40

PRODUCT NUMBER(S): CPS235120 CPS238053

COMPANY IDENTIFICATION

Chevron USA Products Company
Environmental, Safety, and Health
Room 2900
575 Market St.
San Francisco, CA 94105-2856

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or
(510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (202)483-7616

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500
Environmental, Safety, & Health Info: (415) 894-1899
Product Information: (800) 582-3835

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON DELO 400 SAE 40

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
LUBRICATING BASE OIL			
SEVERELY REFINED PETROLEUM DISTILLATE			
	> 80.0%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

ADDITIVES INCLUDING THE FOLLOWING
< 20.0%

Revision Number: 3 Revision Date: 09/27/94 MSDS Number: 005600
NDA - No Data Available NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard
(29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology
and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804

ZINC ALKYL DITHIOPHOSPHATE

Chemical Name: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALT
CAS68649423 < 1.6%

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

TLV - Threshold Limit Value
STEL - Short-term Exposure Limit
RQ - Reportable Quantity
C - Ceiling Limit
A1-5 - Appendix A Categories

TWA - Time Weighted Average
TPQ - Threshold Planning Quantity
PEL - Permissible Exposure Limit
CAS - Chemical Abstract Service Number
() - Change Has Been Proposed

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS**EYE:**

This substance is not expected to cause prolonged or significant eye irritation. This hazard evaluation is based on the data from similar materials.

SKIN:

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

INGESTION:

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

INHALATION:

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled. Prolonged or repeated breathing of petroleum oil mist can cause respiratory irritation. This hazard evaluation is based on data from similar materials.

SIGNS AND SYMPTOMS OF EXPOSURE:

INHALATION: Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

4. FIRST AID MEASURES

EYE:

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NDA - No Data Available

NA - Not Applicable

No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

SKIN:

No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

INHALATION:

If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 437F (220C) Min.

AUTOIGNITION: NDA

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

EXTINGUISHING MEDIA:

CO₂, Dry Chemical, Foam and Water Fog.

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur, nitrogen, phosphorus, and boron. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616

ACCIDENTAL RELEASE MEASURES:

Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7. HANDLING AND STORAGE

HANDLING AND STORAGE:

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty

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NDA - No Data Available

NA - Not Applicable

drum or drum may rupture with explosive force.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is usually necessary.

SKIN PROTECTION:

No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.

ENGINEERING CONTROLS:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Dark brown liquid.

pH: NDA

VAPOR PRESSURE: NA

VAPOR DENSITY

(AIR=1): NA

BOILING POINT: NA

FREEZING POINT: NDA

MELTING POINT: NA

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

SPECIFIC GRAVITY: 0.89 @ 15.6/15.6C

EVAPORATION RATE: NA

VISCOSITY: 14.2 cSt @ 100C (Min.)

PERCENT VOLATILE

(VOL): NA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates,

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NDA - No Data Available

NA - Not Applicable

peroxides, etc.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

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

SKIN EFFECTS:

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

ACUTE ORAL EFFECTS:

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

ACUTE INHALATION EFFECTS:

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

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains zinc alkyl dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to ZDDPs.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. See Chevron Material Safety Data Sheet No. 1793 for additional information on used motor oil.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

This material is not expected to present any environmental problems other than those associated with oil spills.

Revision Number: 3

Revision Date: 09/27/94

MSDS Number: 005600

NDA - No Data Available

NA - Not Applicable

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:

Oil collection services and collection centers are available for used motor oil recycling or disposal. Some service stations, automotive service centers, and retailers provide motor oil collection facilities.

Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE
FEDERAL DOT

DOT HAZARD CLASS: NOT APPLICABLE

DOT IDENTIFICATION NUMBER: NOT APPLICABLE

DOT PACKING GROUP: NOT APPLICABLE

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects:	NO
2. Delayed (Chronic) Health Effects:	NO
3. Fire Hazard:	NO
4. Sudden Release of Pressure Hazard:	NO
5. Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory

Revision Number: 3

Revision Date: 09/27/94

MSDS Number: 005600

NDA - No Data Available

NA - Not Applicable

lists indicated.

PHOSPHORODITHIOIC ACID, O,O-DI-CL-14-ALKYL ESTERS, ZINC SALTS

is found on lists: 01,11,

SEVERELY REFINED PETROLEUM DISTILLATE

is found on lists: 14,15,17,

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:

This revision updates Section 3 (Hazards ID.), Section 4 (First Aid Measures), Section 8 (Exposure Controls/Personal Protection) and Section 15 (Regulatory Information).

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

Revision Number: 3

Revision Date: 09/27/94

MSDS Number: 005600

NDA - No Data Available

NA - Not Applicable

APPENDIX C

Sample Chain-of-Custody Forms

OFFICIAL CHAIN OF CUSTODY RECORD

[illegible]

4-3-97; 12:00 PM; 15131/242034; 17 2/3

[illegible]

OFFICIAL CHAIN OF CUSTODY RECORD

1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

[illegible]

6- 2148

OFFICIAL CHAIN OF CUSTODY RECORD

REGION 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

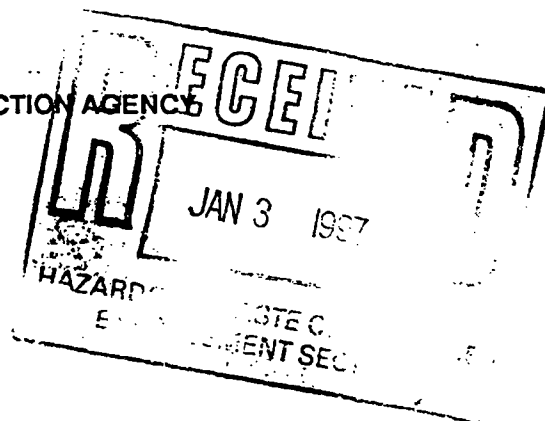
6- 2149

APPENDIX D

Analytical Data



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099
December 30, 1996



MEMORANDUM

SUBJECT: Region 6 Environmental Laboratory Results for the New Mexico Oil Service Company Initiative.

FROM: *David Stoltz*
Douglast Lipka, Chief (6MD-H)
Houston Laboratory
Management Division

TO: Desi Crouther, Chief (6EN-H)
Hazardous Waste Enforcement Branch
Enforcement and Compliance Assurance Division

ATTN: Bill Rhotenberry (6EN-HX)

Attached are the laboratory results for samples submitted from the New Mexico Oil Service Company Initiative project. Twenty-three samples were submitted to the Laboratory on November 21-22, 1996. The laboratory numbers assigned to these samples are 7GDXER01-01 through 7GDXER01-23.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of these samples. The results apply only to the sample tested. This final report should only be reproduced in full.

Attachments

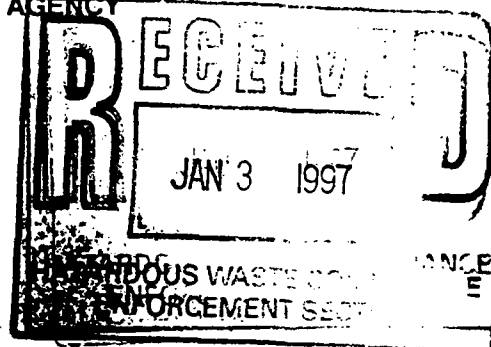


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contains at least 50% recycled fiber



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

December 30, 1996



MEMORANDUM

SUBJECT: Notice of Intent to Dispose of Samples *David Stokols for*
FROM: Douglas Lipka, Chief (6MD-H)
Houston Laboratory
Management Division
TO: Desi Crouther, Chief (6EN-H)
Hazardous Waste Enforcement Branch
Enforcement and Compliance Assurance Division

The Houston Laboratory is required to dispose of all hazardous wastes we generate in a manner consistent with RCRA regulations. This includes all samples received for analysis provided we find them to contain contaminants which classify them as RCRA hazardous wastes. In addition, any samples found to contain PCBs must be disposed of according to TSCA regulations.

I have included this memorandum in the final analytical report to serve as notice to the program that we have completed all analysis. If we have any of the original sample remaining after analysis is complete we will dispose of it within 90 days. Please note that even though original sample may be left over, it does not mean that a reanalysis of the sample may be requested since the sample has most likely exceeded its holding time and any subsequent analysis may not be valid.

If you have a need to hold these samples in custody longer than 90 days, please sign below and return this memorandum to me within the next 30 days. Also, state briefly your need to hold these samples in custody.

Thank you for your cooperation in this request.

Facility Name	NEW MEXICO OIL SERVICE COMPANY INITIATIVE (7GDXR01)	
Program Manager (signature)		Date:
Justification for holding samples		



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U.S. EPA - REGION 6 ENVIRONMENTAL LABORATORY
HOUSTON, TEXAS**FINAL REPORT**
DECEMBER 30, 1996

SITE NAME: NEW MEXICO OIL SERVICE COMPANY INITIATIVE

DATES RECEIVED: NOVEMBER 21-22, 1996

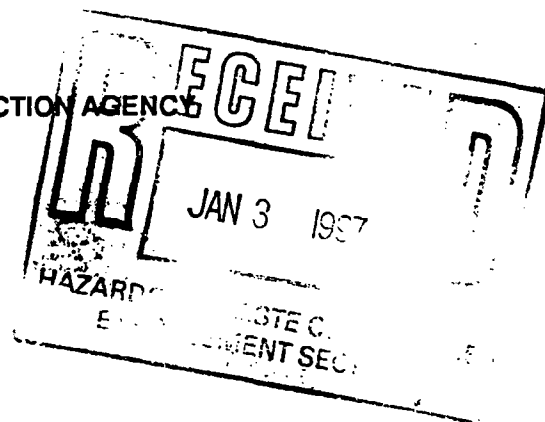
LABORATORY NUMBER	STATION ID	DATE/TIME COLLECTED	RESULTS		
			IGNITABILITY ¹	pH ²	TCLP METALS
7GDXER01-01	MI-01 WL-01	11/19/96,0820	POSITIVE	6.4	NOT REQUESTED
7GDXER01-02	MI-02 WL-01	11/19/96,0840	NEGATIVE	5.8	NOT REQUESTED
7GDXER01-03	MI-02 WL-02	11/19/96,0840	NEGATIVE	7.6	NOT REQUESTED
7GDXER01-04	MI-06 WL-01	11/19/96,0940	NEGATIVE	< 1.0	NOT REQUESTED
7GDXER01-05	MI-07 WL-01	11/19/96,0950	NEGATIVE	9.7	NOT REQUESTED
7GDXER01-06	MI-08 WL-01	11/19/96,0905	POSITIVE	8.2	NOT REQUESTED
7GDXER01-07	MI-09 WL-01	11/19/96,1000	NEGATIVE	4.4	NOT REQUESTED
7GDXER01-08	LS-01 WL-01	11/19/96,1640	NEGATIVE	7.0	NOT REQUESTED
7GDXER01-09	LS-02 WL-01	11/19/96,1647	NEGATIVE	6.8	NOT REQUESTED
7GDXER01-10	MI-03 WL-01	11/19/96,0855	NEGATIVE	9.5	NOT REQUESTED
7GDXER01-11	MI-04 WL-01	11/19/96,0930	NEGATIVE	6.7	NOT REQUESTED
7GDXER01-12	MI-05 WL-01	11/19/96,0955	NEGATIVE	10.1	NOT REQUESTED
7GDXER01-13	LS-03 WL-01	11/19/96,1655	NEGATIVE	7.1	SEE ATTACHMENT 2
7GDXER01-14	LS-03 WL-02	11/19/96,1655	NEGATIVE	6.9	SEE ATTACHMENT 2
7GDXER01-15	MI-01 EB-01	11/19/96,0737	NEGATIVE	6.4	NOT REQUESTED
7GDXER01-16	MI-01 FB-01	11/19/96,0732	NEGATIVE	5.9	NOT REQUESTED
7GDXER01-17	LS-01 FB-01	11/19/96,1713	NEGATIVE	5.8	SEE ATTACHMENT 2
7GDXER01-18	KS-01-WL-01	11/21/96,1315	NEGATIVE	4.5	NOT REQUESTED
7GDXER01-19	KS-01-WL-02	11/21/96,1315	NEGATIVE	4.5	NOT REQUESTED
7GDXER01-20	KS-02-WL-01	11/21/96,1250	NEGATIVE	6.3	NOT REQUESTED
7GDXER01-21	KS-02-WL-02	11/21/96,1250	NEGATIVE	6.4	NOT REQUESTED
7GDXER01-22	KS-01-FB-01	11/21/96,1155	NEGATIVE	5.6	NOT REQUESTED
7GDXER01-23	KS-01-EB-01	11/21/96,1210	NEGATIVE	5.8	NOT REQUESTED

1 SETA FLASH METHOD 1020A

2 AQUEOUS SAMPLES METHOD REFERENCE 9040B, NON-AQUEOUS SAMPLES METHOD REFERENCE 9045C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099
December 30, 1996



MEMORANDUM

SUBJECT: Region 6 Environmental Laboratory Results for the New Mexico Oil Service Company Initiative.

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Douglas Lipka, Chief (6MD-H)
Houston Laboratory
Management Division

TO: Desi Crouther, Chief (6EN-H)
Hazardous Waste Enforcement Branch
Enforcement and Compliance Assurance Division

ATTN: Bill Rhotenberry (6EN-HX)

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Standard procedures for quality assurance and quality control were followed in the analysis and reporting of these samples. The results apply only to the sample tested. This final report should only be reproduced in full.

Attachments



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contains at least 50% recycled fiber

US EPA HOUSTON BRANCH

SAMPLE #: 7GBXER01-13 DATE
SOURCE: NEW MEXICO OIL SERVICE RECEIVED: 21-Nov-96
 COMPANY INITIATIVE
TYPE: AQ TCLP DATE
ANALYSTS: RC, LC, BS REPORTED: 19-Dec-96

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	0.004	0.003	MG/L
BARIUM	0.12	0.01	MG/L
CADMIUM	ND	0.005	MG/L
CHROMIUM	ND	0.01	MG/L
LEAD	ND	0.03	MG/L
MERCURY	ND	0.0002	MG/L
SELENIUM	ND	0.003	MG/L
SILVER	ND	0.01	MG/L

ND: LESS THAN DETECTION LIMIT

US EPA HOUSTON BRANCH

SAMPLE #: 7GBXER01-14 DATE
SOURCE: NEW MEXICO OIL SERVICE RECEIVED: 21-Nov-96
 COMPANY INITIATIVE
TYPE: AQ TCLP DATE
ANALYSTS: RC, LC, BS REPORTED: 19-Dec-96

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	0.004	0.003	MG/L
BARIUM	0.14	0.01	MG/L
CADMIUM	ND	0.005	MG/L
CHROMIUM	ND	0.01	MG/L
LEAD	ND	0.03	MG/L
MERCURY	ND	0.0002	MG/L
SELENIUM	ND	0.003	MG/L
SILVER	ND	0.01	MG/L

ND: LESS THAN DETECTION LIMIT

US EPA HOUSTON BRANCH

SAMPLE #: 7GBXER01-17 DATE
SOURCE: NEW MEXICO OIL SERVICE RECEIVED: 21-Nov-96
COMPANY INITIATIVE
TYPE: AQ TCLP DATE
ANALYSTS: RC, LC, BS REPORTED: 19-Dec-96

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	ND	0.003	MG/L
BARIUM	0.06	0.01	MG/L
CADMIUM	ND	0.005	MG/L
CHROMIUM	ND	0.01	MG/L
LEAD	ND	0.03	MG/L
MERCURY	ND	0.0002	MG/L
SELENIUM	ND	0.003	MG/L
SILVER	ND	0.01	MG/L

ND: LESS THAN DETECTION LIMIT

APPENDIX E

Photograph Documentation

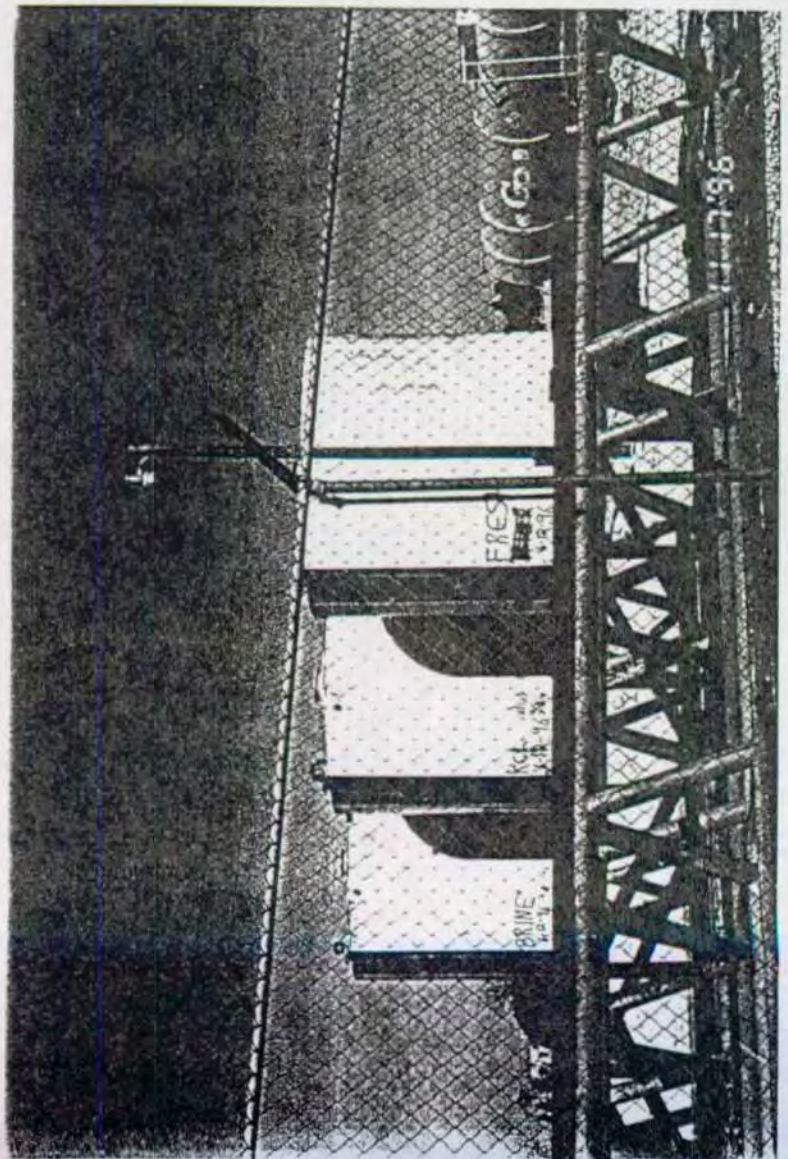
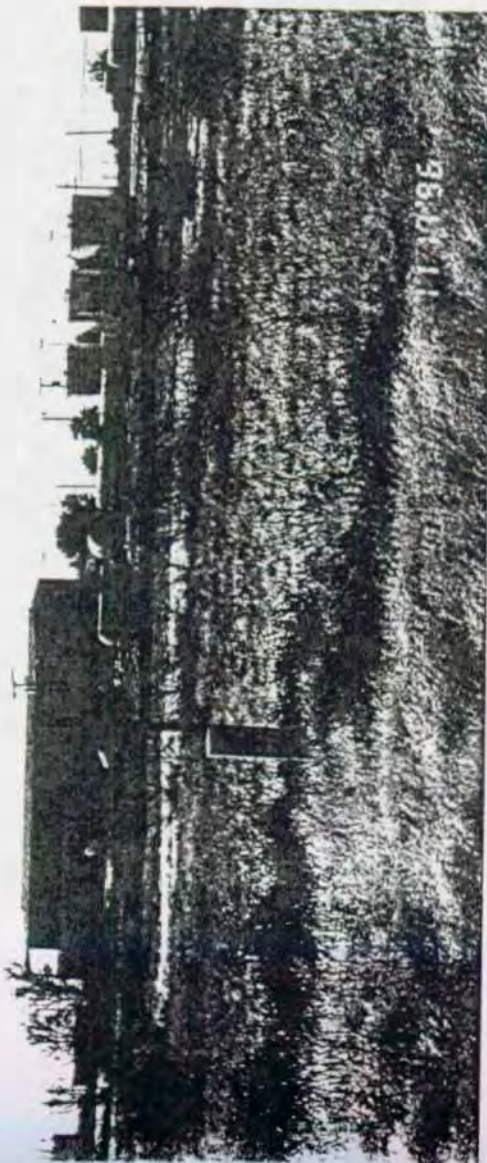


Photo #: R₀P₁ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1010
Direction Facing: South

Description: The north half of Lucky Service's yard is shown from a distance.

Photo By: Wallace O'Rear **Date:** 11/17/96

Photo #: R₀P₂ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1012
Direction Facing: South

Description: The north half of Lucky Service's yard is shown close-up.

Photo By: Wallace O'Rear **Date:** 11/17/96

Photo #: R₀P₃ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1016
Direction Facing: North

Description: Lucky Service's brine water, potassium chloride water, and fresh water tanks are shown.

Photo By: Wallace O'Rear **Date:** 11/17/96

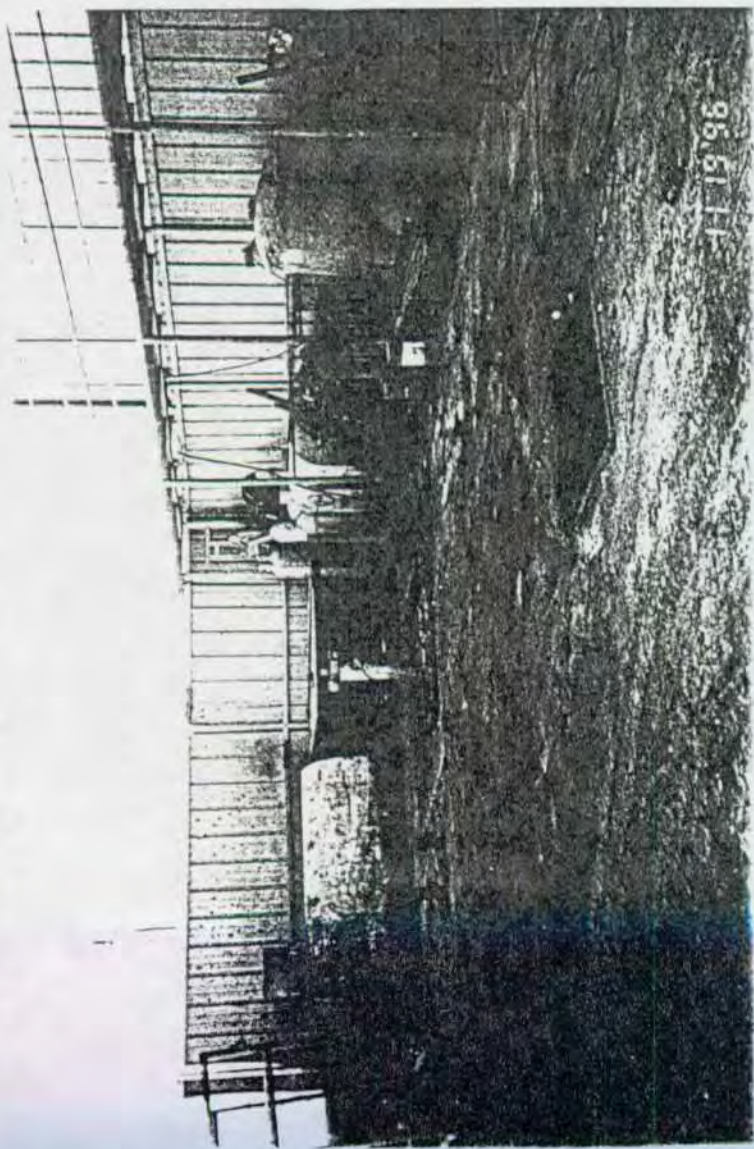
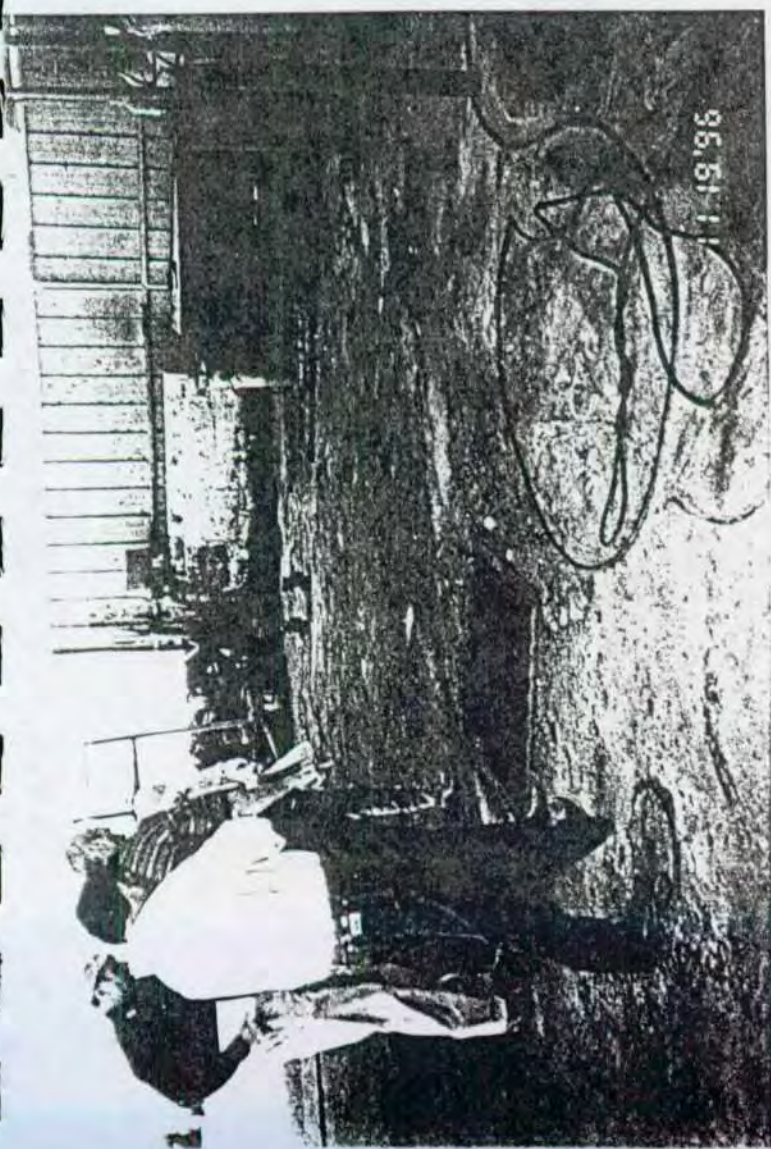
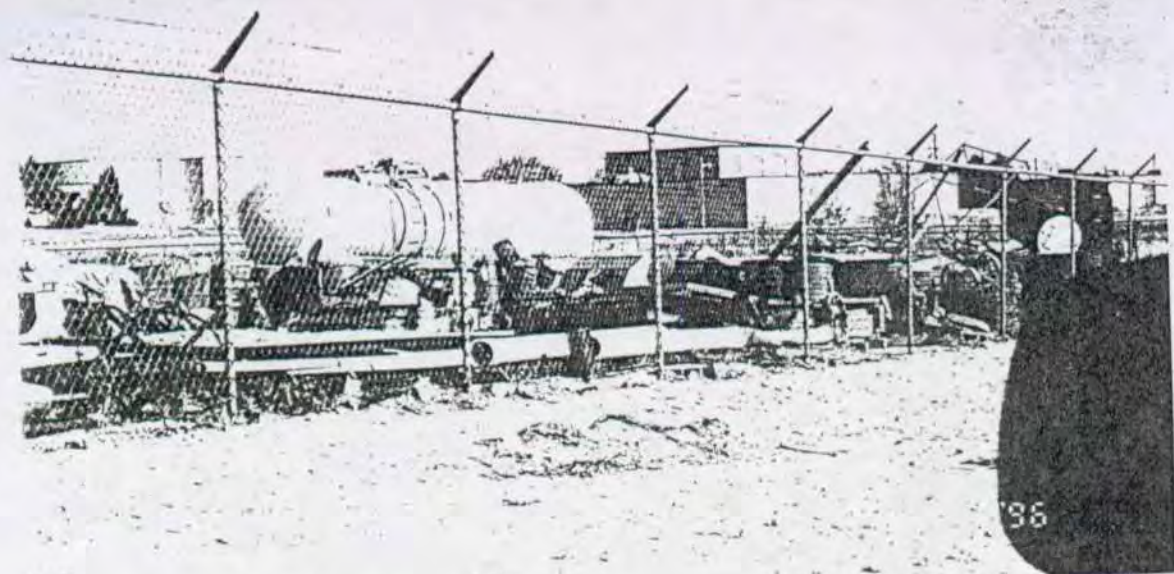


Photo #: R₀P₄ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1018
Direction Facing: North

Description: Lucky Service's waste drum storage area, located next to the truck tank, is shown.

Photo By: Wallace O'Rear **Date:** 11/17/96

Photo #: R₁P₁ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1440
Direction Facing: East

Description: Lucky Service's sump that collects water from the maintenance area, is shown.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₂ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1441
Direction Facing: South

Description: The surface water runoff from the outdoor maintenance area flows into the sump drain in the photo.

Photo By: Wallace O'Rear **Date:** 11/19/96

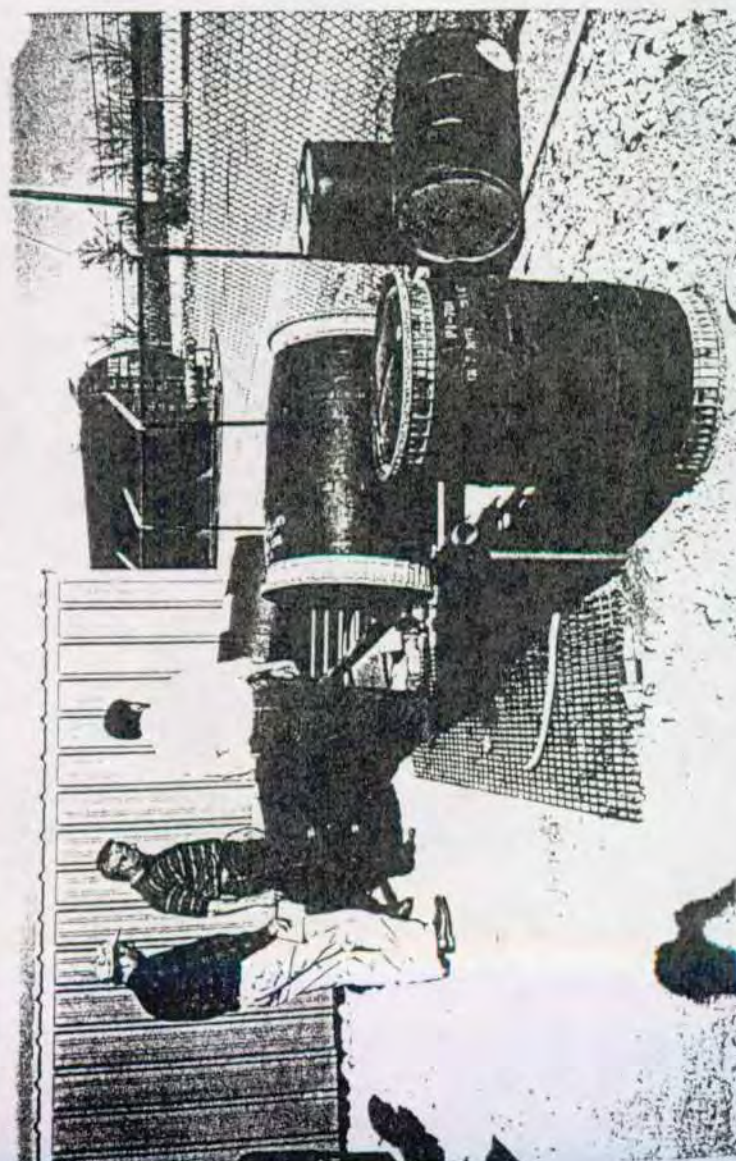
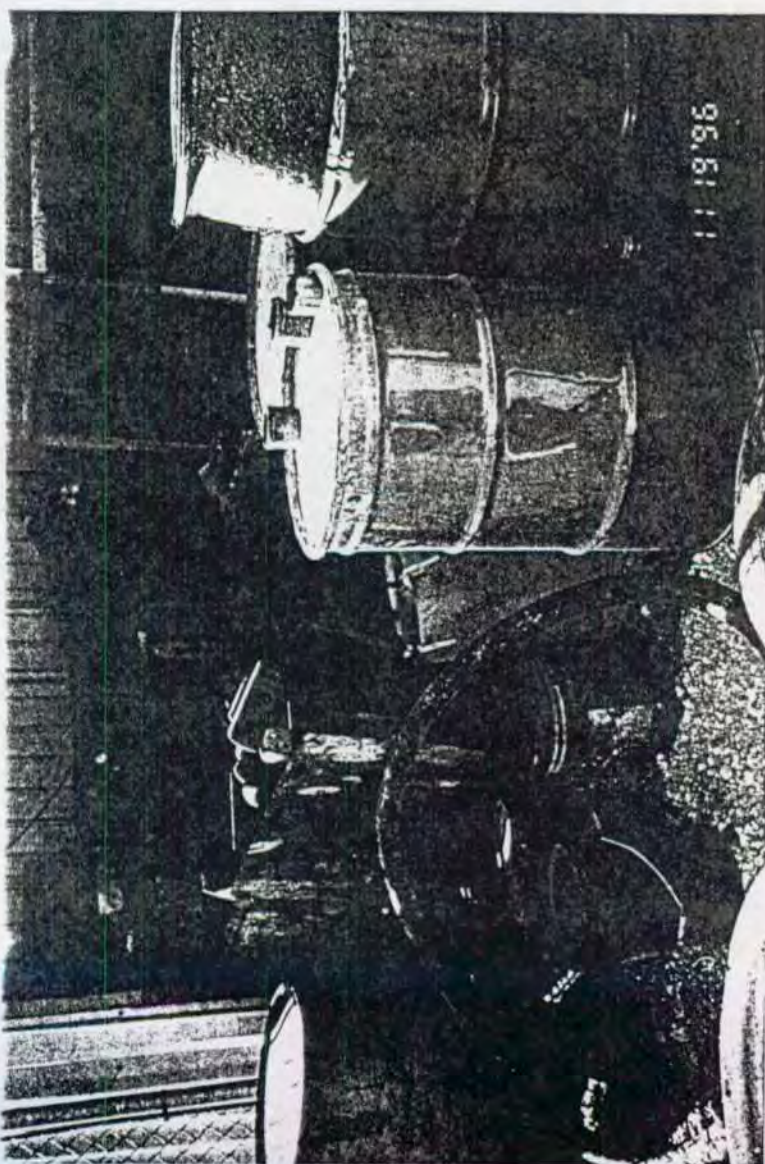
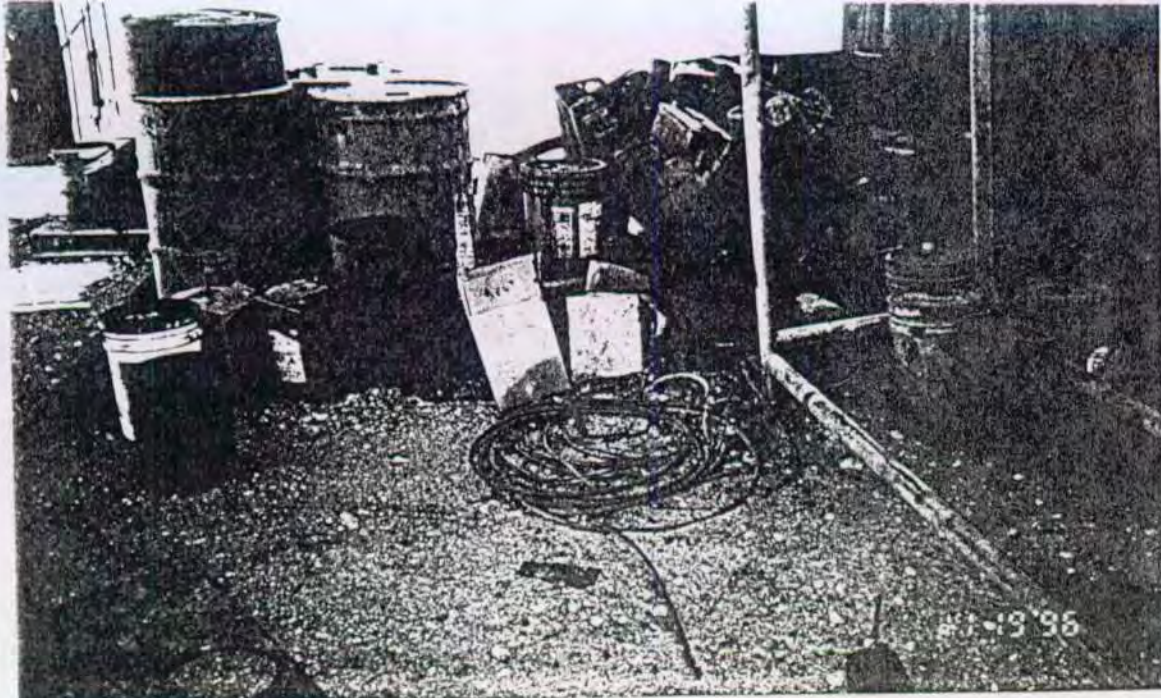


Photo #: R₁P₃ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1449
Direction Facing: East

Description: The trash collection area located in the northeast corner of the maintenance area is shown.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₄ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1450
Direction Facing: Southeast

Description: The photo shows a close-up of the trash collection area located in the northeast corner of the maintenance area.

Photo By: Wallace O'Rear **Date:** 11/20/96

Photo #: R₁P₅ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1452
Direction Facing: North

Description: Fifty-five gallon drums containing soap that are in use, are stored on a steel rack, as shown.

Photo By: Wallace O'Rear **Date:** 11/19/96

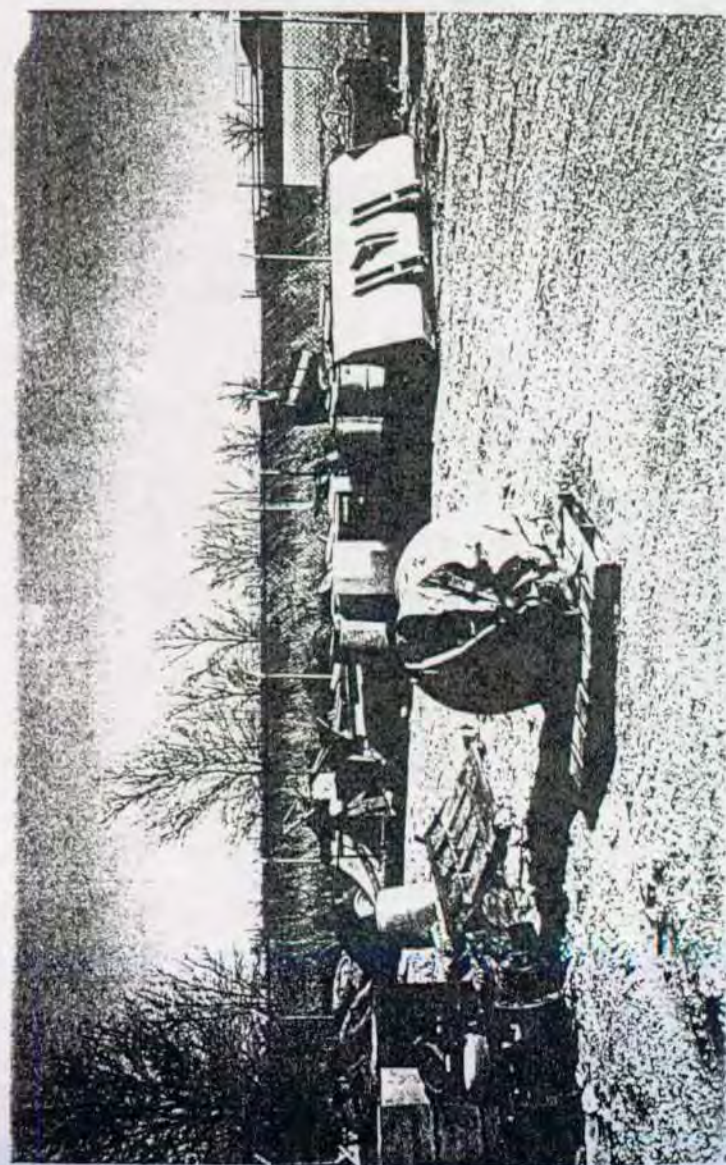
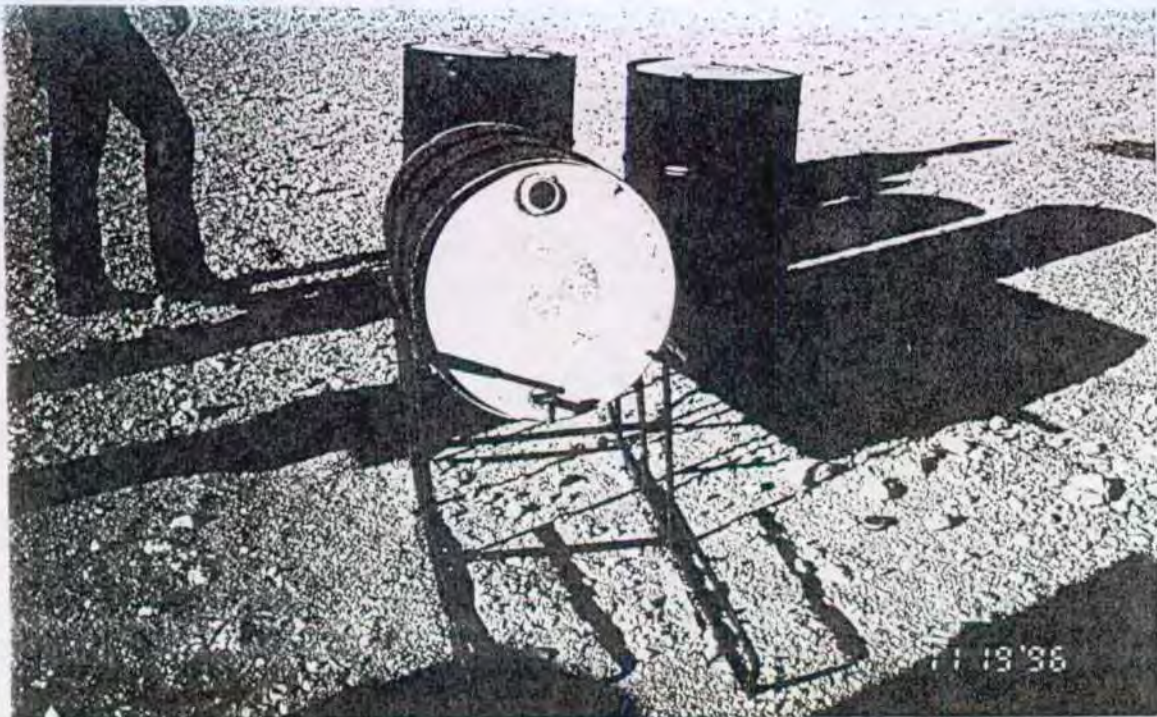


Photo #: R₁P₆ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1453
Direction Facing: West

Description: A fifty-five gallon drum containing antifreeze is stored as shown on a single-drum steel rack while in use.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₇ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1455
Direction Facing: Northeast

Description: The waste (empty) 55-gallon drum storage area is shown. This is where drums are stored until they are picked-up for disposal.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₈ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1456
Direction Facing: East

Description: Additional waste (empty) 55-gallon drums are being stored to the south of the drums in Photo # R₁P₇, as shown.

Photo By: Wallace O'Rear **Date:** 11/19/96

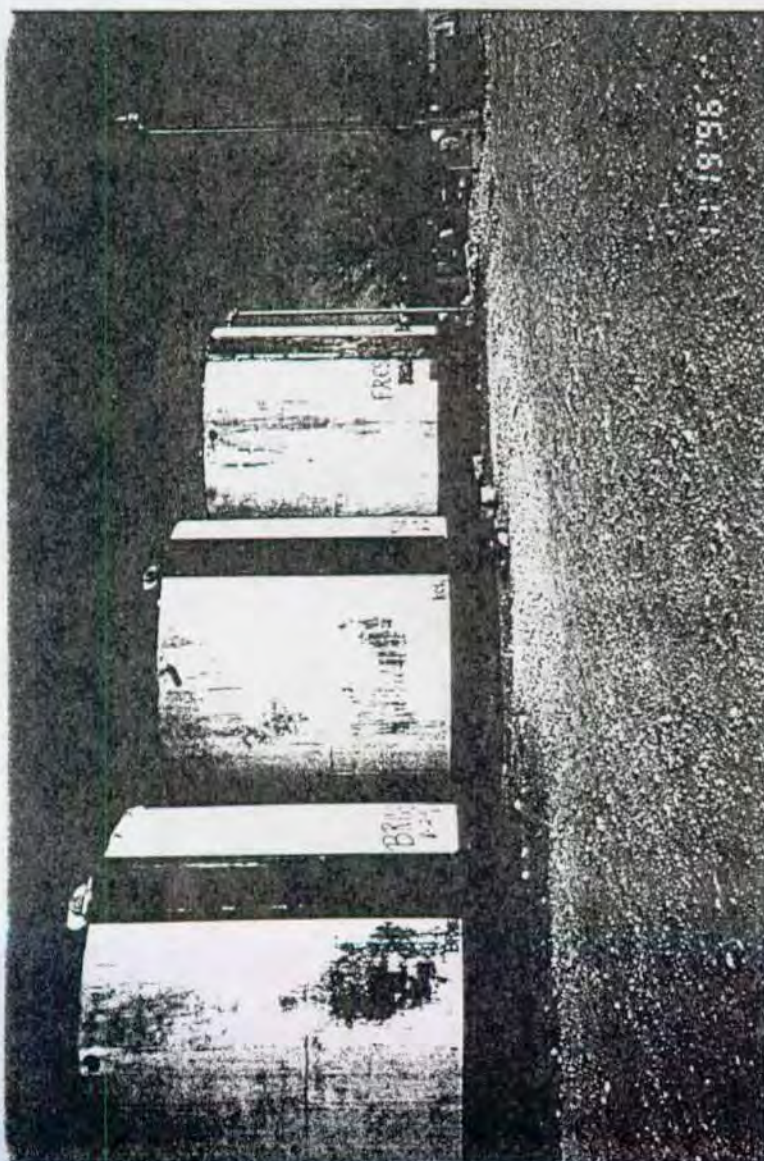
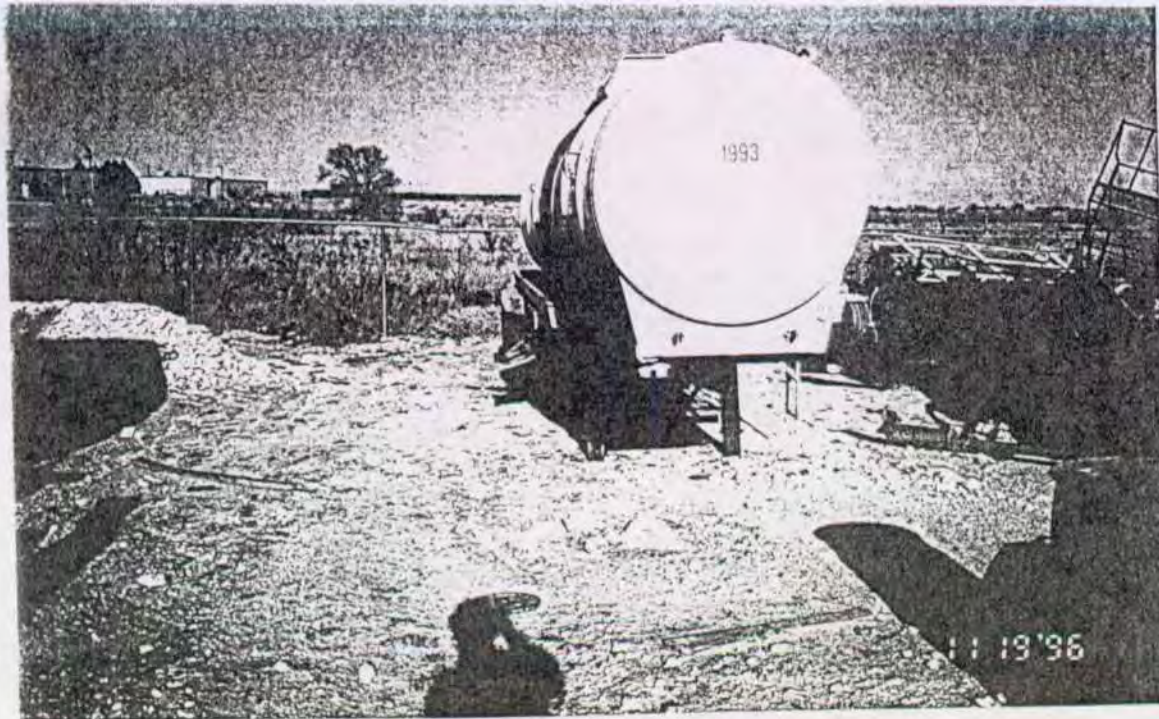


Photo #: R₁P₉ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1459
Direction Facing: North

Description: Photo of the Tank Truck located to the west of the waste drum storage area.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₁₀ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1504
Direction Facing: Northeast

Description: The Holding Tanks that hold the fresh, brine, and potassium chloride (KCl) water are shown.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₁₁ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1506
Direction Facing: Northwest

Description: The half, frac tank that contained production water, during the site visit, is shown.

Photo By: Wallace O'Rear **Date:** 11/19/96

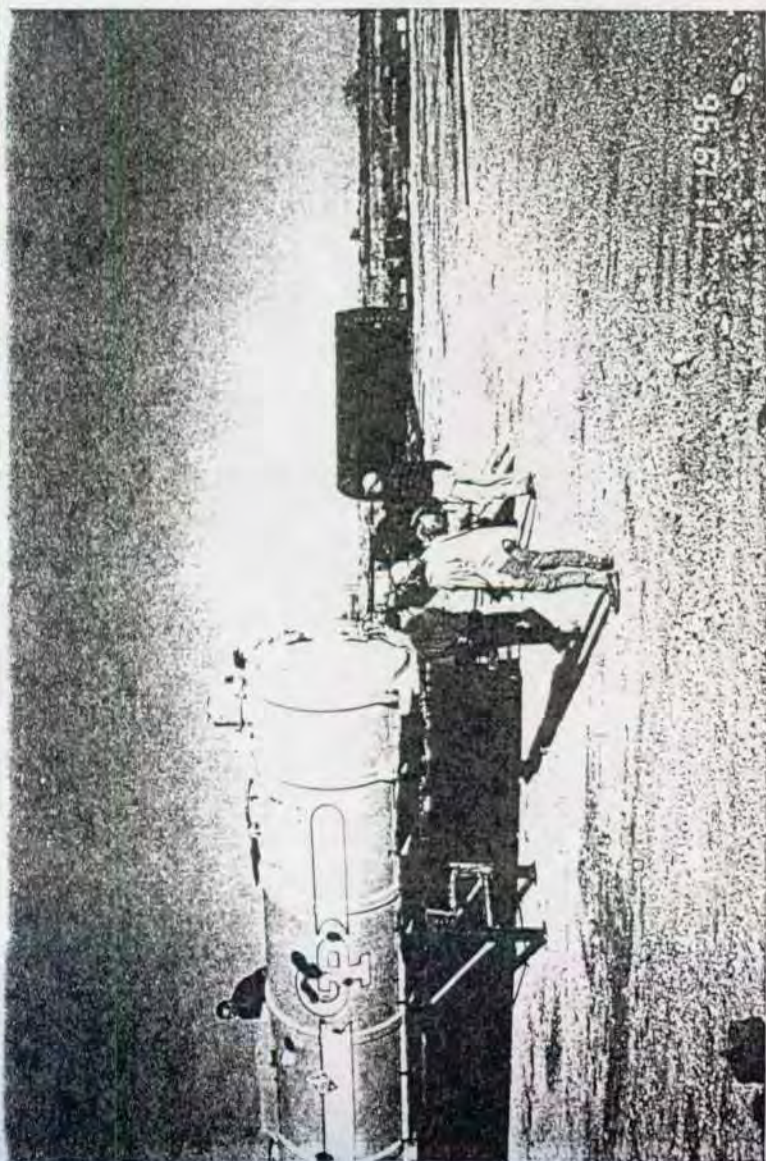
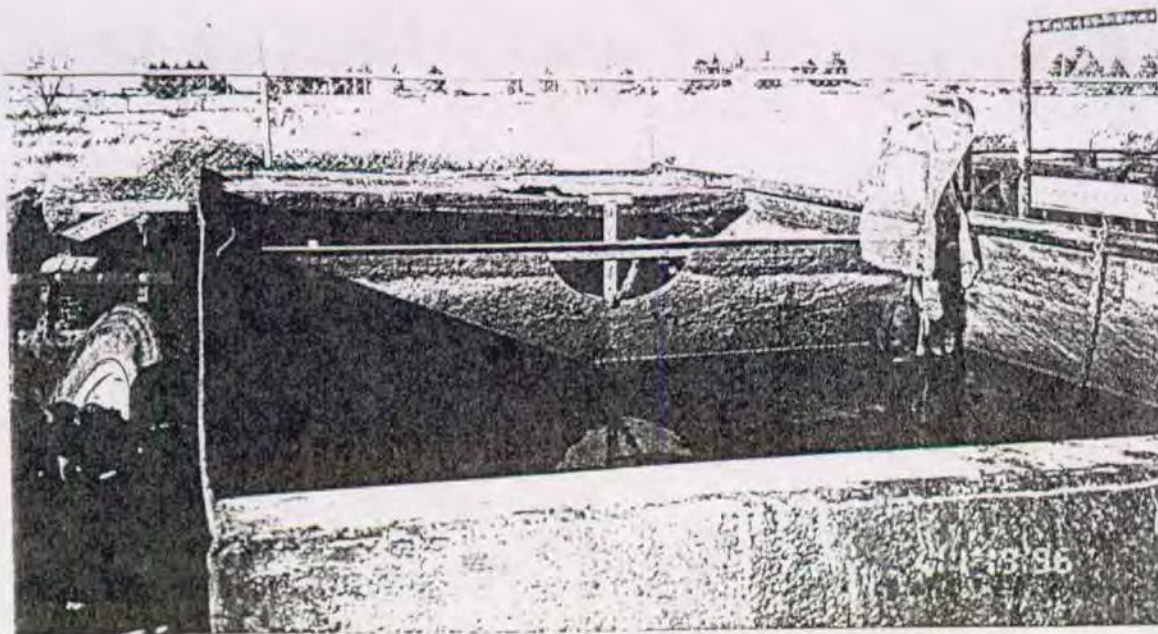


Photo #: R₁P₁₂ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1507
Direction Facing: West

Description: Photo of the half frac tank showing the production water that it contained.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₁₃ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1507
Direction Facing: East

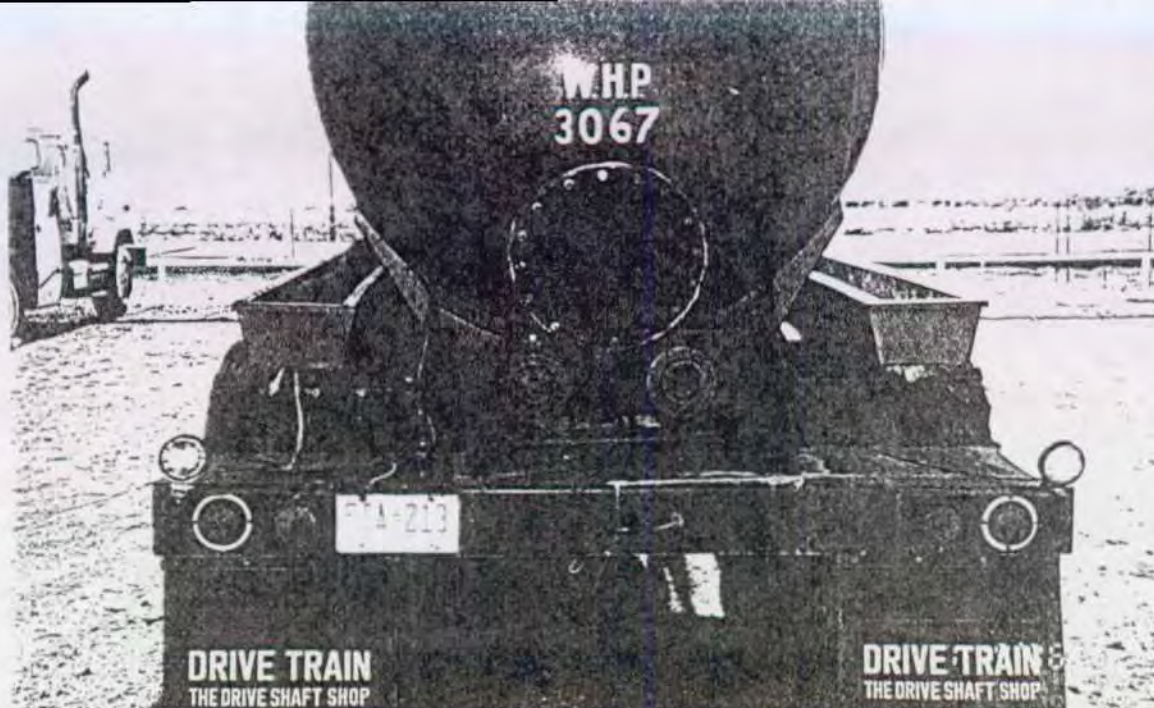
Description: Photo showing an overview of the northern portion of Lucky Service's facility.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₁₄ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1508
Direction Facing: Northeast

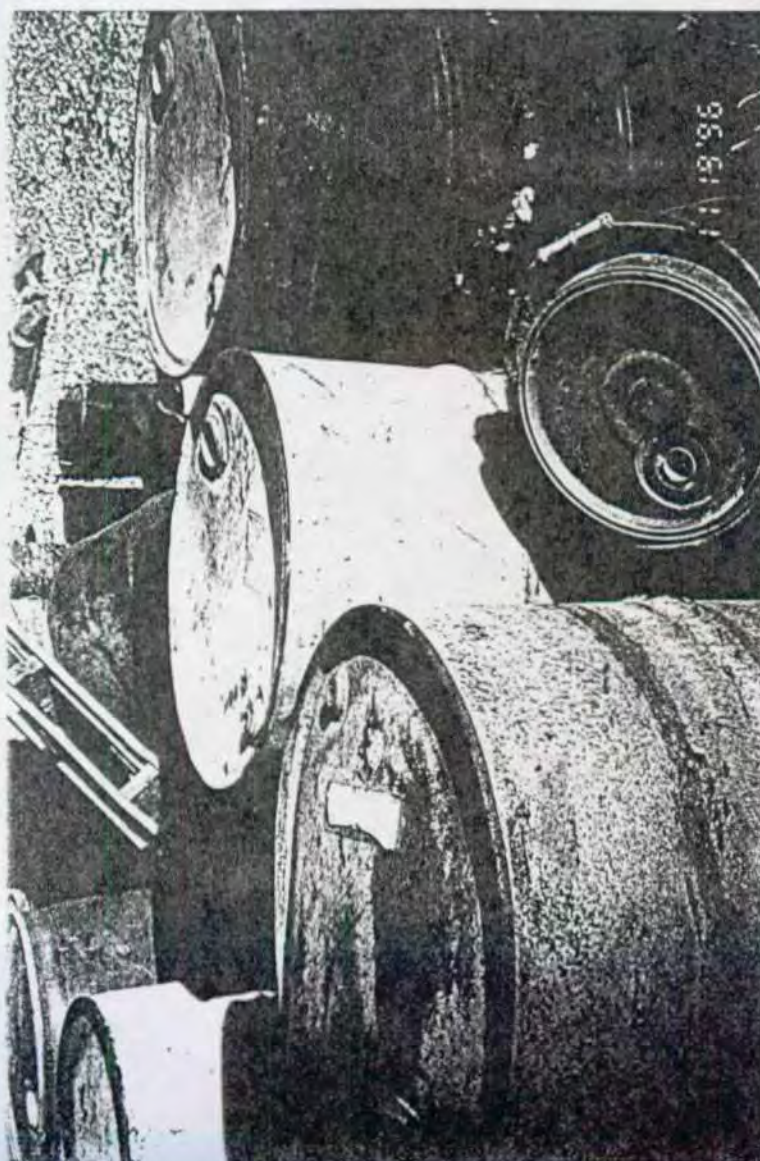
Description: Photo showing an overview of the northeastern portion of Lucky Service's facility.

Photo By: Wallace O'Rear **Date:** 11/19/96



DRIVE TRAIN
THE DRIVE SHAFT SHOP

DRIVE TRAIN
THE DRIVE SHAFT SHOP



UN3255

COMBUSTIBLE LIQUID
MAY CAUSE EYE AND SKIN BURNS
MAY BE HARMFUL IF INHALED OR SWALLOWED

WARNING

HAZARDOUS WHEN EMPTY
DO NOT CUT OR WELD
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME
USE ONLY WITH ADEQUATE VENTILATION
DO NOT LEAVE CONTAINER OPEN

EDDINS-WALCHER CO.
MIDLAND, TEXAS 79702
(915) 563-1920

REFER TO MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

FOR INDUSTRIAL USE ONLY
This product is not suitable for use as a general-purpose container
because of the flammable, toxic, and/or corrosive nature of the
material. Review material safety data sheet for more information, including
chronic health effects.

11/19/96

Photo #: R₁P₁₅ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1511
Direction Facing: South

Description: A photograph of the Tank Truck, with license plate number FTA213, that contained refractant on the day of the inspection.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₁₆ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1512
Direction Facing: North

Description: One of the drums (the mint green one in the center) located in the Waste Drum Storage Area had a NAPHTHA label affixed to the top of the drum.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₁₇ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1514
Direction Facing: Down

Description: The NAPHTHA label affixed to the top of the mint green drum, located in the Waste Drum Storage Area, that is shown in Photo # R₁P₁₆.

Photo By: Wallace O'Rear **Date:** 11/19/96

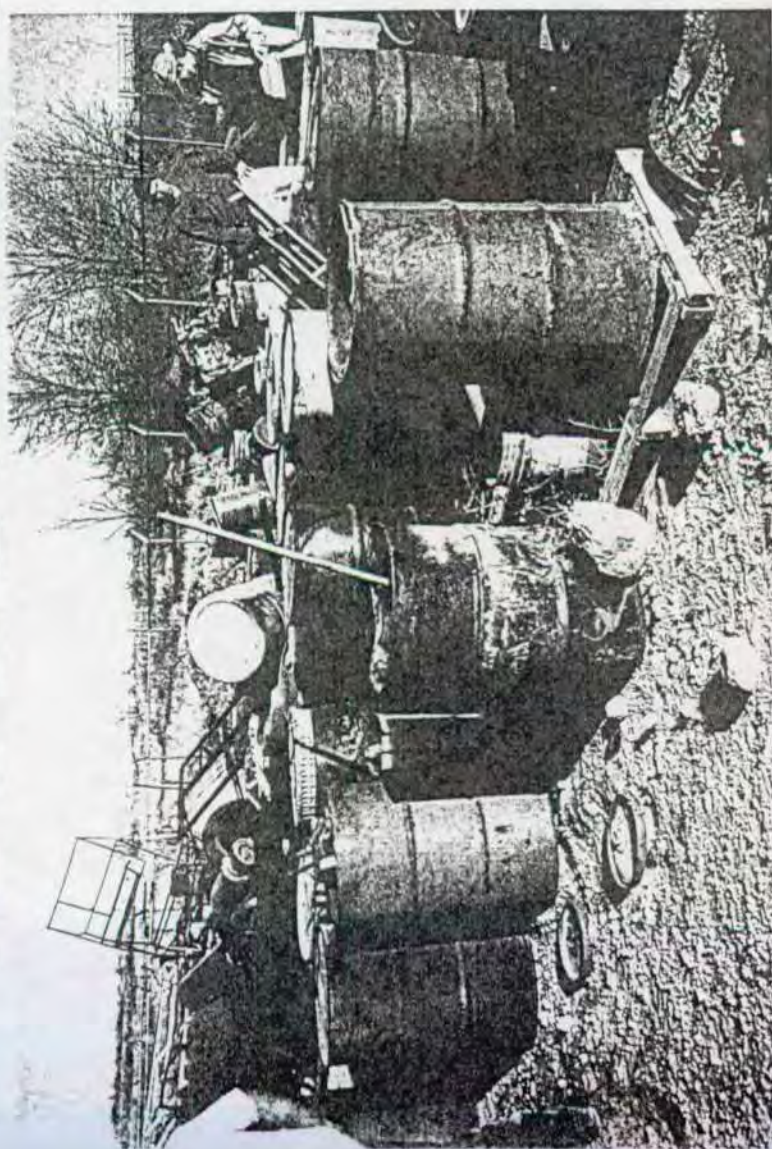
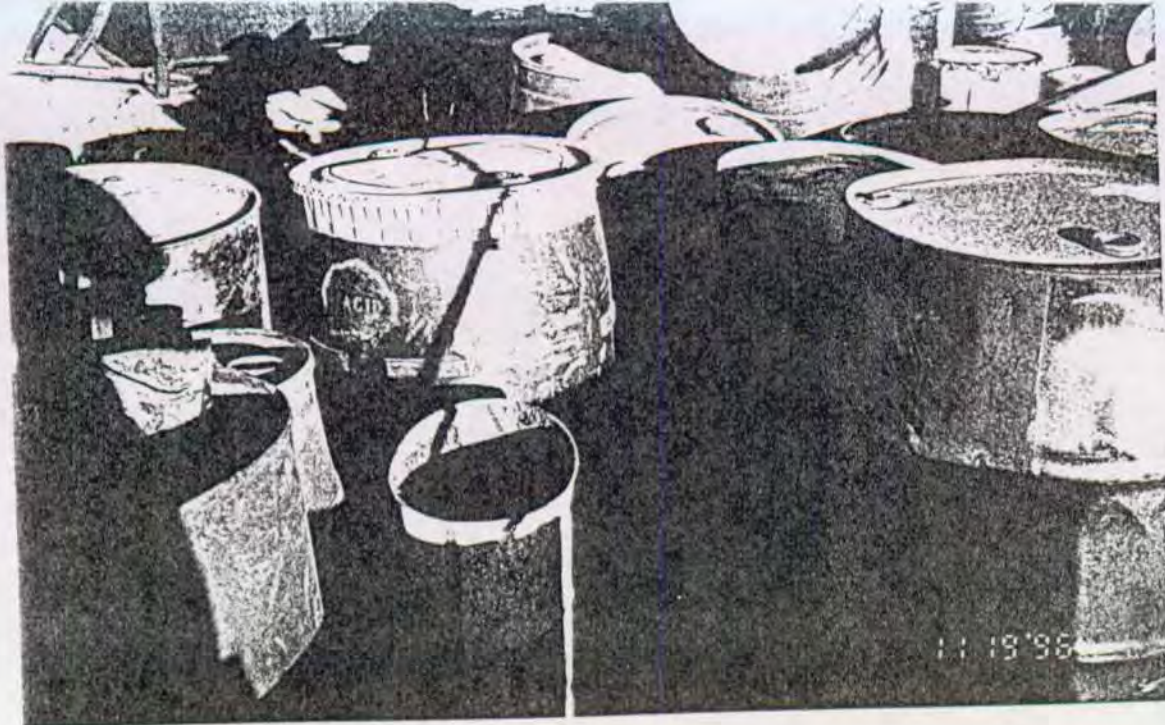


Photo #: R₁P₁₈ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1515
Direction Facing: North

Description: The black poly drum, located in the center of the Waste Drum Storage Area, was labeled ACID on the side of the drum.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₁₉ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1516
Direction Facing: Northeast

Description: Close-up of the drums located in the Waste Drum Storage Area.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₂₀ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1517
Direction Facing: East

Description: Drums next to the drum labeled ACID (the blue poly one in the center), located in the Waste Drum Storage Area, was labeled DRIP on the side of the drum.

Photo By: Wallace O'Rear **Date:** 11/19/96

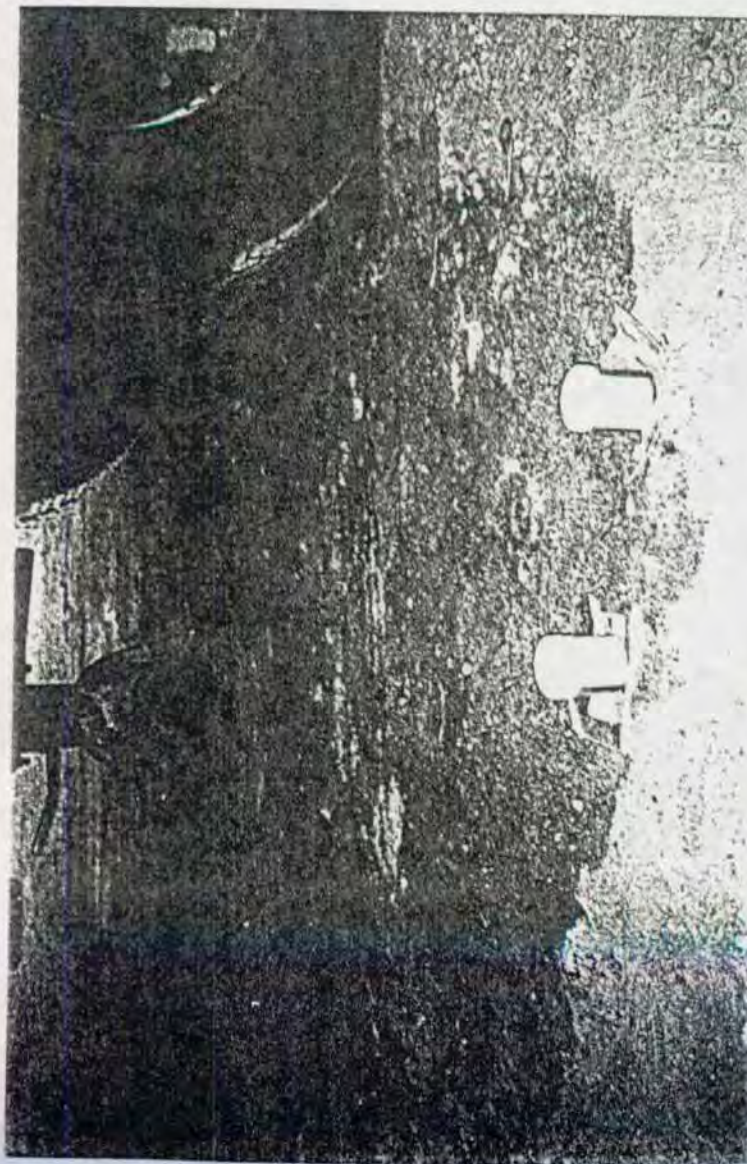


Photo #: R₁P₂₁ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1518
Direction Facing: Down

Description: A close-up of the blue poly drum, located in the Waste Drum Storage Area, that was labeled DRIP.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₂₂ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1640
Direction Facing: Down and to the North

Description: The Sample No. LS-01-WL-01, taken from the Tanker Truck with License Plate No. FTA213, is shown.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₂₃ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1645
Direction Facing: Down and Northwest

Description: Close-up of sampling point for Sample No. LS-01 WL-01 with the filled sample bottles in the foreground.

Photo By: Wallace O'Rear **Date:** 11/19/96

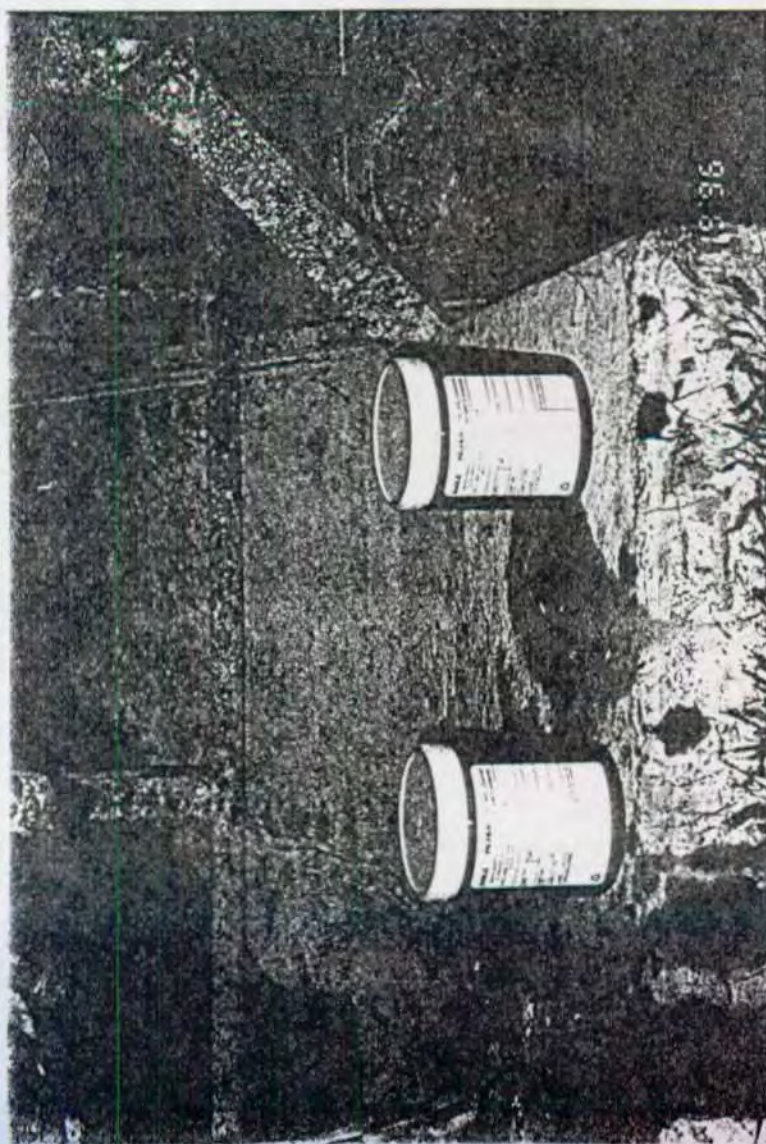


Photo #: R₁P₂₄ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1650
Direction Facing: Southwest

Description: Sample No. LS-02-WL-01, taken from the
Vac Truck with License Plate No. E1463.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₁P₂₅ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1652
Direction Facing: Down

Description: Close-up of the sampling point for Sample
No. LS-02-WL-01 with the filled sample bottles in the
foreground.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₂P₁ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1655
Direction Facing: South

Description: The Sample Nos. LS-03-WL-01 and
LS-03-WL-02, that were collected from the sump.

Photo By: Wallace O'Rear **Date:** 11/19/96

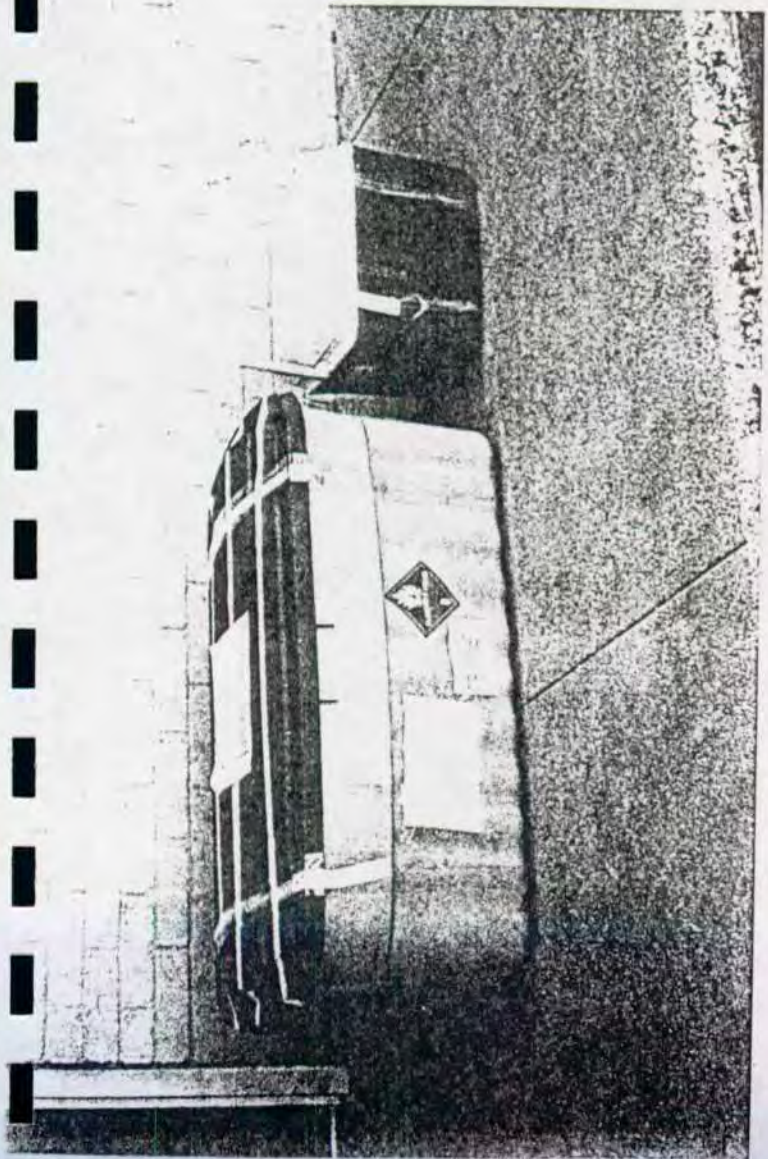


Photo #: R₂P₂ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1715
Direction Facing: East

Description: Collection of the Field Blank, Sample No.
LS-01-FB-01 that was collected next to the sump.

Photo By: Wallace O'Rear **Date:** 11/19/96

Photo #: R₂P₃ **City:** Hobbs, NM
Site: Lucky Services, Inc. **Time:** 1200
Direction Facing: Down

Description: Documentation of the condition of the
sample cooler prior to shipment.

Photo By: Dan Irvin **Date:** 11/20/96