GW-<u>282</u>

GENERAL CORRESPONDENCE

YEAR(S): 2002 - 1990

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 11/12/02, or cash received on in the amount of \$ 100.00 Dafata & Envir. from ervuce for bbs Serv GW. Submitted by: Date: Submitted to ASD by: Date: Received in ASD by: Date: Filing Fee New Facility ____ Renewal Modification Other (manda) 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. **1ST NATIONAL BANK** HOBBS, NM P.O. BOX 1613 PH. 505-397-0510 95-43/1122 **HOBBS, NM 88241** 11/12/2002 PAY TO THE New Mexico Environmtal Department **100.00 ORDER OF. DOLLARS | New Mexico Environmtal Department MEMO



First National Bank

100.00

*



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 p p 1613 7 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 alla

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

LORI WROTENBERY, Director

SEAL

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, impulsion 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 subterrenea 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 módificacion, 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

LORI WROTENBERY, Director

SELLO



P 2000 1613 7 Clinton Suite 102 Hooss, 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,

10 D

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 you 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

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:

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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

LORI WROTENBERY, Director

SEAL

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

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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

LORI WROTENBERY, Director

SEAL





EN ESTADO DE NUEVO MEXICO 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

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. 3929 9062</u>

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

WOCC 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 <u>www.nmenv.state.nm.us</u>).

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.

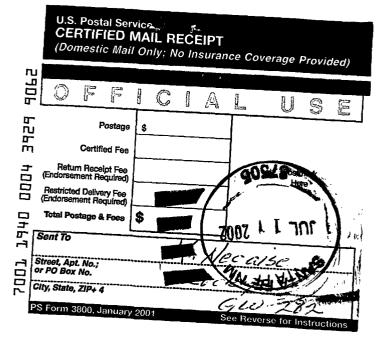
Sincerely,

Roger C. Anderson Oil Conservation Division

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RCA/wjf

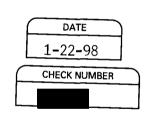
cc: OCD Hobbs District Office

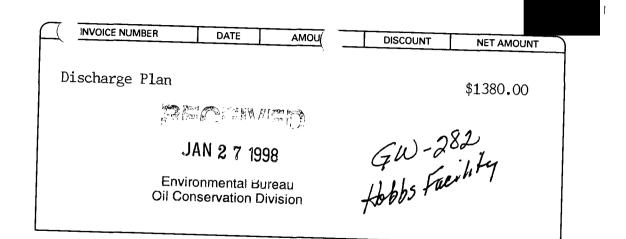


ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASE

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To be deposited in t Full Payment LUCKY SERVICES, INC PH. 505-392-1547 P.O. BOX 5790	he Water Qualit or Annual	WESTERN COMMERCE HOBBS, NEW MEXICO 95-108-1122	Ind.

LUCKY SERVICES, INC.





LUCKY SERVICES, INC. INVOICE NUMBER DATE AMOUNT DISCOUNT NET AMOUNT Discharge Plan \$1380.00 GW-282 DATE 1-22-98 CHECK NUMBER 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 One thousand three hundred eighty dollars and 00/100 cents PAY DATE AMOUNT NMED - Water Quality Management 2040 S. Pacheco \$1380.00 TO THE 1-22-98 ORDER OF Santa Fe, NM 87505 1.11* 25 JAN 2 7 1998 Environmentai Bureau C!! Conservation Division



P.O. BOX 5790

HOBBS, N.M. 88241

TELEPHONE 505-392-1547

DWAYNE TAYLOR PRESIDENT

January 09, 1998

Jack Ford New Mexico Dil 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

Kevin Necaise Safety Supervisor

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Enclosures

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GW-282 WC

Lucky Services, Inc.

DISCHARGE PLAN

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 - I. Type of Operation
 - II. Name of Operator or Legally Responsible Party and Local Representative
 - III. Location of the Discharge Plan Facility
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 - V. Facility Description
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 - 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
- 2. Appendix A Maps, Site Plots, etc.
- 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. <u>Type of Operation</u>

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 f or Used at the Ho Lucky Services, In		
Material Stored	General Composition	Solid or Liquid	Container Type	Volume Stored
1. Drilling Flui				
N/A				
Category 2. Brin	es.(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
Catergory 3. Aci	ds/Caustic			
N/A				
Category 4. Dete	ergents/Soaps			
Rig Wash (Biodegradable)	Non-Ionic Surfactant	Powder	32 gallon cardboard drum	< 200 lbs.
Category 5. Solv	vents and Degrease	ers		
Parts Washing Solvent	Light Petroleum Distillates (Naphtha)	Liquid	30 gallon parts- washing drum	< 30 gallons
Category 6. Par	affin Treatment/E	mulsion Breakers		
N/A				
Category 7. Bio	cides		T	
N/A				1
Category 8. Oth	ers	•	• • • • • • • • • • • • • • • • • • •	······
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*
	allon drums of these led for immediate u		cording to job need	3. No more is

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.

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

Table 2: Sources and Quantities of Effluent and Waste Solids Generated at the Hobbs, New Mexico Facility - Lucky Services, Inc.			
C Effluent Type	ategory per NMOCD I Volume Generated	Discharge Plan Guidel Additional Constituents	lines 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. <u>Description of Current Liquid and Solid Waste Collection/Storage/Disposal</u> <u>Procedures</u>

- 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. <u>Proposed Modifications</u>

- 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 if due entirely to precipitation, as the formation is topographically high and isolated. The Triassic rock project above the water table in the western part of the Ogallala outcrop area in Lea County, and the Ogallala rocks are saturated only along valleys or in isolated depressions in the red-beds erosion surface.

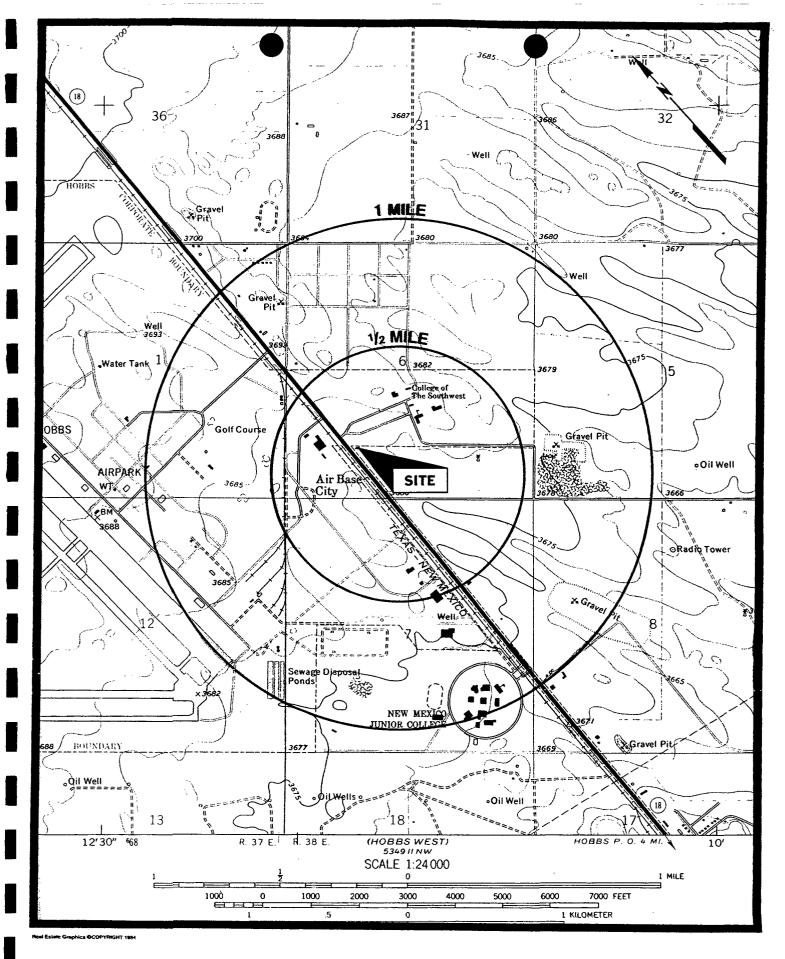
The general direction of water table movement in this area is to the southeast, caused by the generally southeastward slope of the red-beds surface. Although recharge to the Ogallala apparently is distributed rather evenly, because of the even distribution of shallow depressions on the High Plains, the position of Mescalero Ridge relative to the buried red-beds ridge may permit a somewhat more concentrated recharge at the escarpment. Based on the review of the available well logs of the site area (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

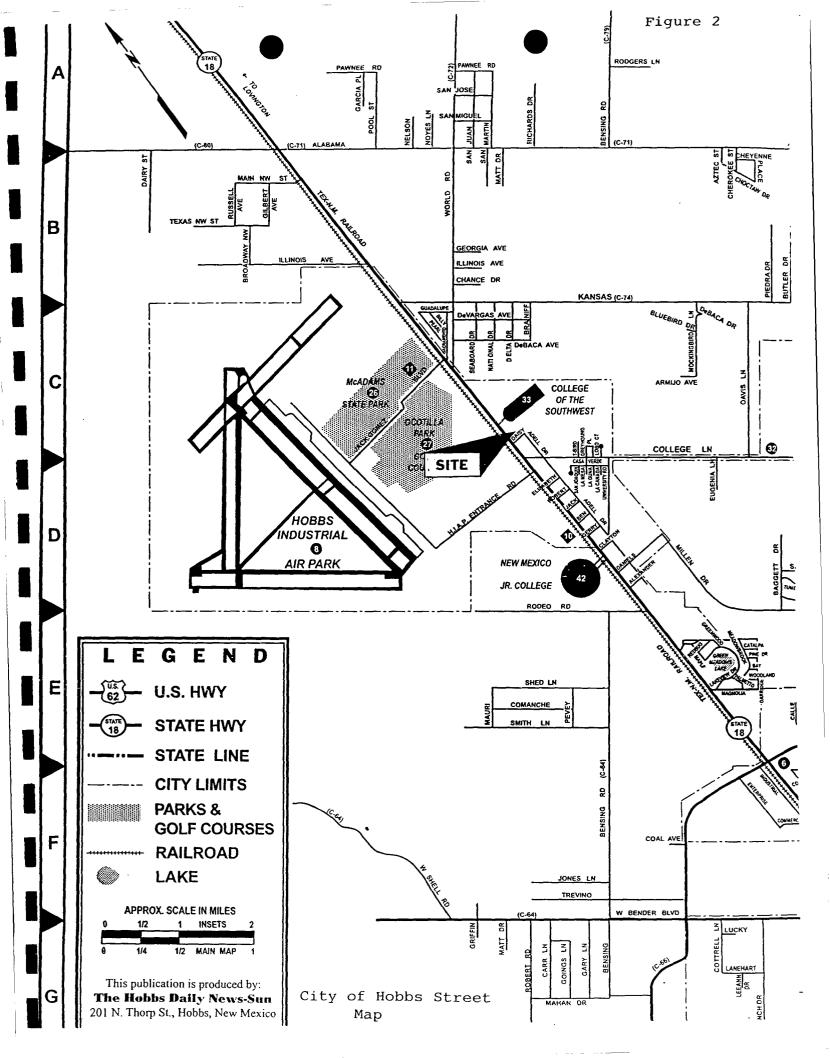
Appendix C is a copy of the recent **EPA Compliance Evaluation Inspection**, and other regulatory correspondence with the NMOCD. Please note in the compliance evaluation inspection that the sump water and the water from the tank trucks in the yard was found by the EPA to be characteristically non-hazardous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

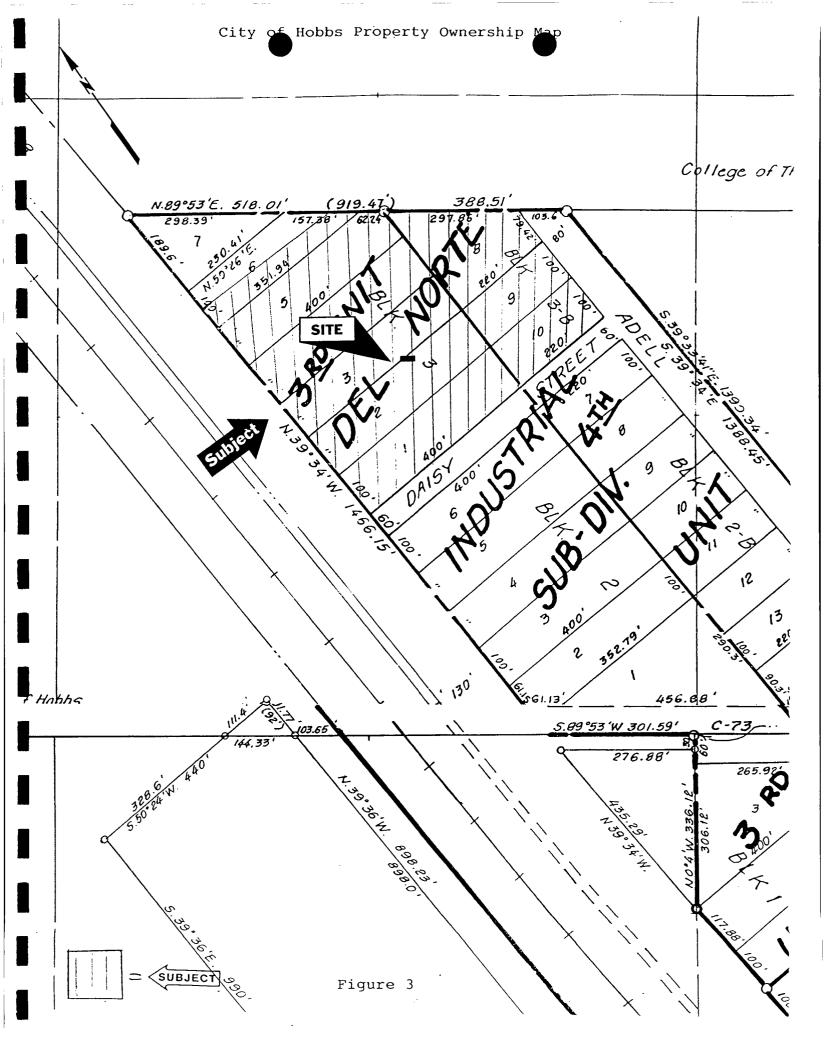
Appendix A

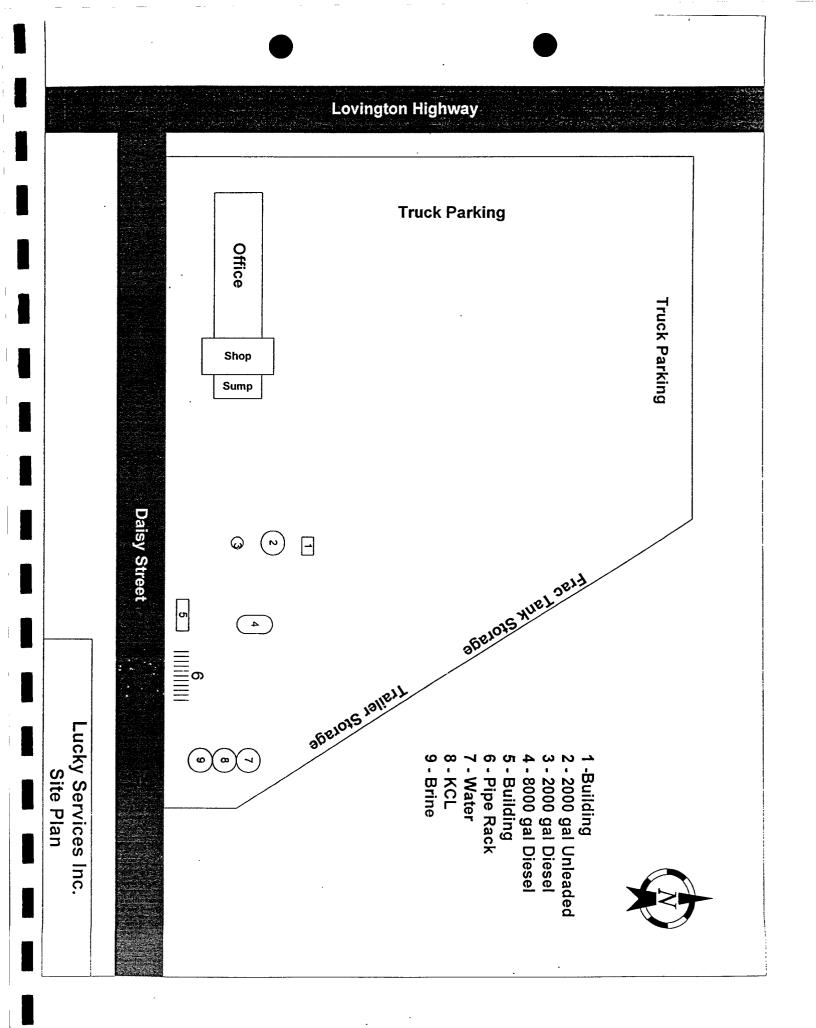


USGS Topographic Map

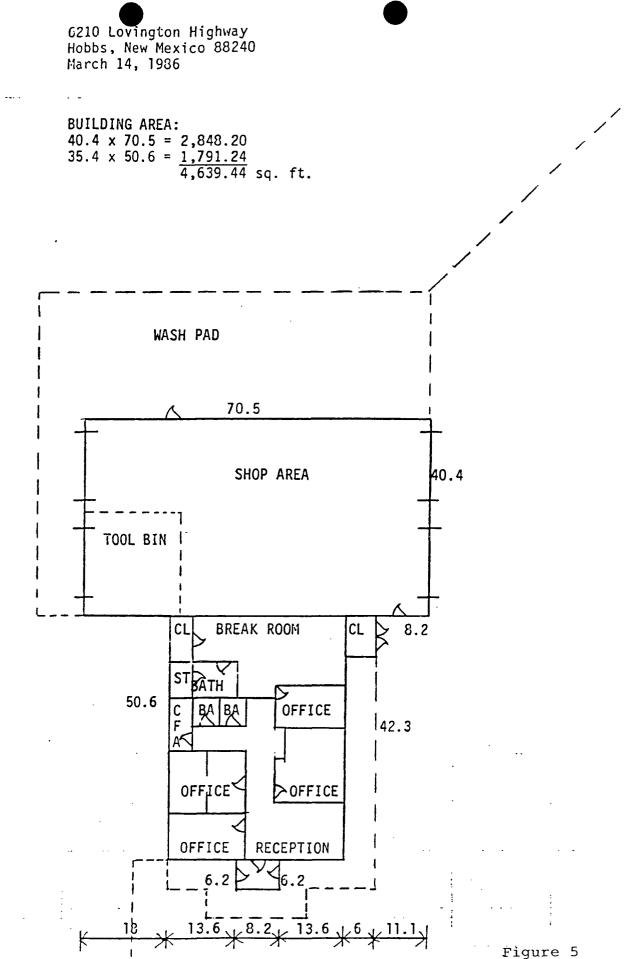
Figure 1







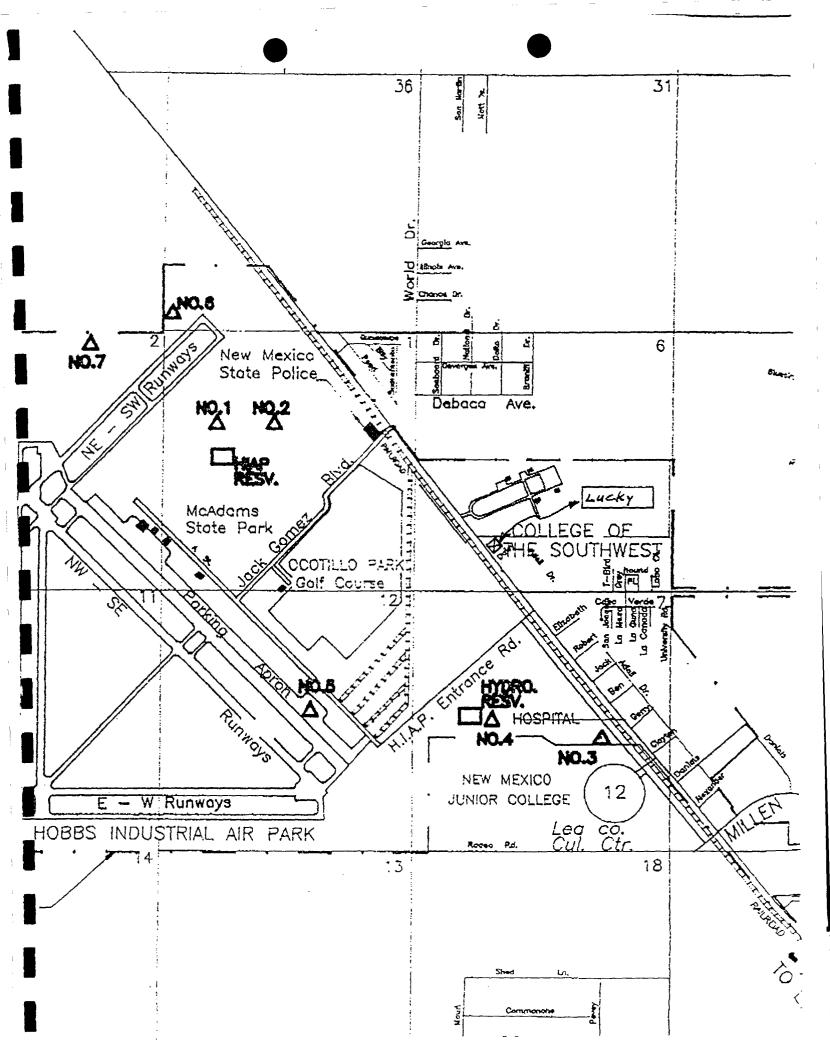
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Appendix B

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DATE EXT DATE AN SAMPLE 0 MPLE PRESER CAS # 71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 24-83-9 78-93-3 104-51-8 135-98-8 98-06-6 1634-04-4 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 95-49-8 106-43-4 96-12-8	No targeted compounds were ETHOD 502.2 SDWA VOLATILES BY G AACTED: N/A ALYZED: 8/25/96 4 Cays: Within EPA Analysis T VOL (mi): 5 VATICN: Sample Temperature when received; 12 1 1 ANALYTE NAME Benzene Bromobenzene Bromochloromethane Bromodichloromethane* Bromodichloromethane 2-Butanone (MEK) n-Butylbenzene tert-Butylbenzene tert-Butylbenzene tert-Butylbenzene tert-Butyl methyl ether (MTBE) Carbon tetrachloride Chlorobenzene (moncchlorobenzene) Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene	Additected	In this sam	apple. AHY (PID/ELC YSIS No.: OR- D BATCH No.: I ION FACTOR: I UEST ID Nc.: I UG/L) QUAL: U I <td>960 500 500 500 500 500 500 500 5</td> <td>440 1.00 18635 1 MCL 5 5 5 80 80 80 80 80 80 80 80 80 80</td>	960 500 500 500 500 500 500 500 5	440 1.00 18635 1 MCL 5 5 5 80 80 80 80 80 80 80 80 80 80
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DATE EXT DATE AN SAMPLE 0 MPLE PRESER CAS # 71-43-2 108-86-1 74-97-5 75-27-4 75-25-2 24-83-9 78-93-3 104-51-8 135-98-8 98-06-6 1634-04-4 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 95-49-8 106-43-4 96-12-8 124-48-1 106-93-4	No targeted compounds were ETHOD 502.2 SDWA VOLATILES BY G AACTED: N/A ALYZED: 8/25/96 4 Cays: Within EPA Analysis T VOL (mi): 5 VATICN: Sample Temperature when received; 12 1 1 ANALYTE NAME Benzene Bromobenzene Bromochloromethane Bromodichloromethane* Bromodichloromethane 2-Butanone (MEK) n-Butylbenzene tert-Butylbenzene tert-Butylbenzene tert-Butylbenzene tert-Butyl methyl ether (MTBE) Carbon tetrachloride Chlorobenzene (moncchlorobenzene) Chlorotoluene 1,2-Dibromo-3-chloropropane (DBCP) Dibromochloromethane*	Degrees C.;	In this sam	apple. AHY (PID/ELC YSIS No.: OR- O BATCH No.: I ION FACTOR: I UEST ID Nc.: I UP/L) QUAL: UU I UU II UU III UU III UU IIII UU IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	960 16 SCL 0.50	440 00 .8635
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75-35-4	i 1,1-Dichloroethene			1 0.00	7
156-59-2	cis-1,2-Dichloroethene	+	<u>i u</u>	0.50	1 70
156-60-5	trans-1,2-Dichloroethene			0.50	1 100
78-87-5	1,2-Dichloropropane		1 0	0.50	5
142-28-9	1,3-Dichloropropane		; U	0.50	- Long and a
590-20-7	2.2-Dichloropropane			0.50	F. 45
563-58-6	1,1-Dichloropropene	1		0.50	This .
1006-01-5	cls-1,3-Dichloropropene	<u></u>	1 0	0.50	
1006-02-6	trans-1,3-Dichloropropene	+	<u> </u>	0.50	- Carlor Carlor
100-41-4	Ethylbenzene	<u></u>		0.50	700
87-68-3	Hexachlorobutadiene		1-0-	0.50	The stand of the
98-82-8	Isopropylbenzene	1	1 0	0.50	1
99-87-6	4-Isopropyitaluene		i ŭ	0.50	12.
75-09-2	Methylene chloride (Dichloromethane)	1 T		0.50	1 5
91-20-3	Naphthalene		1 0	0.50	100 B
103-65-1	Propylbenzene	· · · · · · · · · · · · · · · · · · ·		0.50	
100-42-5	Styrane			0.50	1 100
630-20-6		;		0.50	1.42.00
79-34-5	1,1,1,2-Tetrachloroathane 1,1,2,2-Tetrachloroethane	· · · · · · · · · · · · · · · · · · ·		0.50	1 200 14
127-18-4		1		0.50	6
109-99-9	Tetrachloroethene	· ·		5.00	1-20-10 MA
	Teirahydrofuran (THF)	 		0.50	1000
108-88-3	Tolusne	}			1000
87-61-5 120-82-1	1.2.3-Trichlorobenzene			0.50	and the second data was a second data w
	1,2,4-Trichlorobenzene	1	U	0.50	! 70
71-55-6) ,	<u>! U i</u>	0.50	200
79-00-5	1,1,2-Trichloroethane	1	U j	0.50	1 5
79-01-6	Trichloroethene		<u> U </u>	0.50	5
75-69-4	Trichlorofluoromethane	<u> </u>	U	0.60	[
96-18-4	1,2,3-Trichloropropane		U	0.50	1
95-63-6	1,2,4-Trimethylbenzene		U	0.50	<u> </u>
108-67-8	1,3,5-Trimethylbenzene		U	0.50	145,40
75-01-4	Vinyl chloride		Ū	0.50	1 2
95-47-6	o-Xylene"		U	0.50	u) tur
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	UI	0.50	100
	LABORATORY BATCH QUALITY CONTROL	SUMMARY			
SURROGATE	SURROGATE COMPOUNDS	CONCENTRAT	ION I	% REC	COVERY
RECOVERIES:	2-Bromochlorobenzene (Photolonization Detector Surrogate)	10.28	!	102.8%	
	2-Bromochiorobenzene(Electrolytic Conductivity Retector Surrogaie)	\$. 59	1	96.9%	2
LABORATORY	The % recoveries for compounds in the batch spike we	ere from 80% to	120%	with the	
FORTIFIED	exception of the compounds listed below:				
BLANK	COMPOUND CONCENTRATE		COVERY		1
	Bromoform 10	122	<u>₩.₩.₹.₩</u> ₩₩₩	•	
RECOVERIES	······································	121			
	Dibromochloromethane 10			aton, blog	
	No target compounds were detected above the sample		n iaoora	atory ofar	in l
BLANKS	with the ecception of the compound(s) listed belo	2W2			
	AANBALIND ++	11 M M L M M M M M M M M M M M M M M M M	- 7 \		

COMPOUND CONCENTRATION (UGA.) No Exceptions

ANALYST:

ugit

S. A. Mustafa

QC APPROVED BY:

Ken Sherrell

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DEFINITIONS •• Concentration Exceeds EPA's allowable Maximum Contamination Level CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names $\label{eq:concentration} \text{CONC}, \quad \text{Concentration} \; (\text{ug/L}) \; \text{of analyte actually detected in the sample}$ 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 quanitation can be given (-5 * SDL) U. No analyte was detected above the Sample Detection Umit. MCL Naximum Contamination Level Allowed by EPA for SDWA regulated analytes Sample Detection Limit - The lowest concentration which can be differentiated from Zero with SOL 99% confidence taking sample size (compositing) into account. Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (pob)

MAY-19-97 MON 3:01 FM CITY HOBES UTILICIES FAX NO. 1 3979370

P. 3

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

TEST RAN	WELL	3	RESU	LTS
NITRATE			2.7	
PHOSPHORUS			0.304	mg/L
рН			7.5	
TEMPERATURE			21.9	
TDS				mg/L
SULFATE			100.6	
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	
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

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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

F. 1

NARAG ALTETIES

JUNE 1996

WELL 5

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

			ST	ATE ENGINE			f"1	
				WELL REC	CORD		FIELD 2	
			Section	I. GENERAL	INFORMATIO	N		
A) Owner o	f well Nov	Nerico	Benk &	Trust		Owner'	's Well No	
Street or City and	r Post Office A I State <u>Hob</u> l	ddress <u>F.O</u>	Hexico	00 68240				
-						d) at		
a	<u>%</u>	<u>4 PE 4</u>	¼ of §	ection7	Township _	<u>165</u> Rang	e <u> </u>	N.M.P.N
b. Tract	No	of Map N	0	of th	e			
c. Lot N	10. <u>1-4</u>	of Block_No	5	of th	e lel Coz	to Indu dri	<u></u>	<u>i inior</u>
Subđi	ivision, recorde	ed in	8	0	County.			
					.M. Coordinate	System		
) Drilling (Contractor	<u>]bott</u> R	rothers			License No	D46	
dama P	.O. Box	637. Ho	bbs. No	Harico	88240	······		
evation of la	nd surface or .			at we	ll is	C: L] e ft. Total depth o	f well 14	1 ft
evation of la	nd surface or .	shallow Se	artesian. ection 2. PRII	at we	ll is Depth to wates R-BEARING ST	ft. Total depth o r upon completion o FRATA	f well <u>14</u> f well <u>40</u> Estimated	1 ft ft
evation of la	nd surface or . Il is 🖾 s	shallow 🗆 Se	artesian. ection 2. PRII	at we	ll is Depth to wates R-BEARING ST	ft. Total depth o r upon completion o FRATA	f well <u>14</u>	1 ft ft
evation of la completed wel Depth	nd surface or . Il is 🖾 s in Feet	shallow Se	artesian.	at we	ll is Depth to water R-BEARING S ^T Water-Bearing F	ft. Total depth o r upon completion o IRATA Formation	f well <u>14</u> f well <u>40</u> Estimated	Lft ft Yield minute)
bevation of la completed wel Depth From	nd surface or . Il is 🖾 s in Feet To	shallow Se	artesian.	at we	ll is Depth to water R-BEARING S ^T Water-Bearing F	ft. Total depth o r upon completion o IRATA Formation	f well <u>1</u> A f well <u>40</u> Estimated (gallons per	Lft ft Yield minute)
bevation of la completed wel Depth From	nd surface or . Il is 🖾 s in Feet To	shallow Se	artesian.	at we	ll is Depth to water R-BEARING S ^T Water-Bearing F	ft. Total depth o r upon completion o IRATA Formation	f well <u>1</u> A f well <u>40</u> Estimated (gallons per	Lft ft Yield minute)
bevation of la completed well Depth From	nd surface or . Il is 🖾 s in Feet To	shallow Se	artesian.	at we	ll is Depth to water R-BEARING S ^T Water-Bearing F	ft. Total depth o r upon completion o IRATA Formation	f well <u>1</u> A f well <u>40</u> Estimated (gallons per	Lft ft Yield minute)
bevation of la completed well Depth From	nd surface or . Il is 🖾 s in Feet To	shallow Se	artesian.	at we	ll is Depth to water R-BEARING S ^T Water-Bearing F	ft. Total depth o r upon completion o IRATA Formation	f well <u>1</u> A f well <u>40</u> Estimated (gallons per	Lft ft Yield minute)
Depth From 70	nd surface or . Il is 🖾 s in Feet To 1:12	hallow Se Thicknes in Feet	artesian.	nciPAL WATE: Description of <u>com Sign</u> (3) on 3. RECORD	II is Depth to water R-BEARING S ^T Water-Bearing F	ft. Total depth o r upon completion o TRATA Formation	f well <u>143</u> f well <u>43</u> Estimated (gallons per <u>200</u>	1ft ft ft minute)
bevation of la completed well Depth From	nd surface or . Il is 🖾 s in Feet To	shallow Se	artesian.	nciPAL WATE Description of <u>conn Sign</u> (II is Depth to water R-BEARING S ^T Water-Bearing F	ft. Total depth o r upon completion o TRATA Formation	f well <u>143</u> f well <u>43</u> Estimated (gallons per <u>200</u>	Lft ft Yield minute)
Depth From 70 Diameter (inches)	nd surface or . Il is 🖾 s in Feet To 142 Pounds per foot	hallow Se Thicknes in Feet	artesian.	nciPAL WATE: Description of <u>com Sign(</u>) on 3. RECORD in Feet Bottom	Il is Depth to water R-BEARING ST Water-Bearing F OF CASING Length (feet)	ft. Total depth o rupon completion o TRATA Formation	f well 14: f well 49 Estimated (gallons per <u>1()()</u> Perfo From	L ft Yield minute) rations To
Depth From 70 Diameter	nd surface or - Il is 2 s in Feet To 1.1.2 Pounds	hallow Se Thicknes in Feet	artesian. ss	nciPAL WATE Description of <u>con Sum d</u> on 3. RECORD in Feet	II is Depth to water R-BEARING ST Water-Bearing F Water-Bearing F OF CASING Length	ft. Total depth o	f well 143 f well 43 Estimated (gallons per <u>200</u>	Lft
Depth From 70 Diameter (inches)	nd surface or . Il is 🖾 s in Feet To 142 Pounds per foot	hallow Se Thicknes in Feet	artesian.	nciPAL WATE: Description of <u>com Sign(</u>) on 3. RECORD in Feet Bottom	Il is Depth to water R-BEARING ST Water-Bearing F OF CASING Length (feet)	ft. Total depth o rupon completion o TRATA Formation	f well 14: f well 49 Estimated (gallons per <u>1()()</u> Perfo From	L ft Yield minute) rations To
Depth From 70 Diameter (inches)	nd surface or . Il is 🖾 s in Feet To 142 Pounds per foot	hallow Se Thicknes in Feet	artesian.	nciPAL WATE: Description of <u>com Sign(</u>) on 3. RECORD in Feet Bottom	Il is Depth to water R-BEARING ST Water-Bearing F OF CASING Length (feet)	ft. Total depth o rupon completion o TRATA Formation	f well 14: f well 49 Estimated (gallons per <u>1()()</u> Perfo From	L ft Yield minute) rations To
Depth From 70 Diameter (inches)	nd surface or . Il is 🖾 s in Feet To 142 Pounds per foot	hallow Se Thicknes in Feet Threads per in. E	artesian.	nciPAL WATE: Description of <u>com Sign(</u>) on 3. RECORD in Feet Bottom	Il is Depth to water R-BEARING ST Water-Bearing F OF CASING Length (feet) 1.41	ft. Total depth of r upon completion o TRATA Formation Type of Shoe	f well 14: f well 49 Estimated (gallons per <u>1()()</u> Perfo From	L ft Yield minute) rations To
evation of la pompleted well Depth From 70 Diameter (inches) 7 Depth	nd surface or . II is IS is in Feet Pounds per foot 22 in Feet	thallow Se Thicknes in Feet Threads per in. E Sect Hole	artesian.	at we	Il is Depth to water R-BEARING ST Water-Bearing F OF CASING Length (feet) 1.41 NG AND CEM	ft. Total depth o rupon completion o TRATA Formation Type of Shoe	f well 14: f well 49 Estimated (gallons per <u>1()()</u> Perfo From	L ft Yield minute) rations To
evation of la completed well Depth From 70 Diameter (inches) 7	nd surface or . Il is I s in Feet To 142 Pounds per foot 22	hallow Se Thicknes in Feet Threads per in. 8 Sect	artesian.	at we	Il is Depth to water R-BEARING ST Water-Bearing F OF CASING Length (feet) 1.41	ft. Total depth o rupon completion o TRATA Formation Type of Shoe	f well 14: f well 49 Estimated (gallons per 100 Perfo From 74	L ft Yield minute) rations To

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Section 5. PLUGGING RECORD

	Section 5. PLUGGING	G RECORD				<i>s</i>
Plugging Contractor						2.
Address			Depth	in Feet	Cubic Feet	٦
Plugging Method		No.	Тор	Bottom	of Cement	
Date Well Plugged		1				7
Plugging approved by:		2				1
		3				7
	State Engineer Representative	4				

FOR USE OF STATE ENGINEER ONLY

Date Received ////14/73

Quad ...

STC

FWL _____ FSL_____ ____Location No. <u>18, 38, 7,24</u>3

File No. - 7115

De	Feet	Thickness	Section 6. LOG OF HOLE
From	То	in Feet	Color and Type of Material Encountered
0	30		Soil and Callche
30	45		Hard Sand Rock
45	60		Sand
60	82		Gray Sand
82	142		Water Sand
		-	•
		-	
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	<u> </u>		
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<u></u>		<u> </u>	· · · · · · · · · · · · · · · · · · ·
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Section 7. REMARKS AND ADDITIONAL INFORMATION

4		1913
ROCHELL. H.	TEE	NON 14
SIKI		14
		AM 8
		1 AM 8: 25

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.

Diller Selen Baker

1973 NOY 26 AM 8: 07 STATE ENSINEER OFFICE NISTRICT II ROSMELLING CX.

2

INSTRUCTIONS: This for should be ex of the State Engineer. A lions, exce

INSTRUCTIONS: This for should be executed in triplicate, preferably typewritten, and submitted t of the State Engineer. A lions, except Section 5, shall be answered as completely and accurate drilled, repaired or deepens. When this form is used as a plugging record only Section 1(a) and Section

• appropriate district office possible when any well is

FIELD	ENGR.	LOG
Form W		

STATE ENGINEER OF

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.

Jection 1		A) Owner of well Tret-O-L	<u>lte</u>
		Street and Number P. O. Bo.	<u>x 1571</u>
		City Hobbs	State New Mexico
	¢.		L - 6108 and is located in the
			ction 7 Twp. 18.5. Rge. 38F.
		(B) Drilling Contractor Abhott	Prothers License No. W-48
		Street and Number P. 2.	<u>997 837</u>
		City	State New Pexico
f l		Drilling was commenced	February 29, 19
	<u> </u>	Drilling was completed	ebruary 24, 19 87
(Plat of (840 acres)		

Section 2

PRINCIPAL WATER-BEARING STRATA

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

ection 3	on 3 RECORD OF CASING							
Dia	Pounds	Pounds Threads Depth Feet				Type Shoe	Perforations	
in.	ft.	in	Top	Bottom	rect	Type purce -	From	To
7	20	A	0	120	120	Open	80	120
						· · · · · · · · · · · · · · · · · · ·		

Section 4	RECORD OF MUDDING	AND CEMENTING

Diameter	Tons	No. Sacks of	Methods Used
Hole in in.	Clay	Cement	Mendes eset
	Diameter Hole in in.		

PLUGGING RECORD Section 5 Name of Plugging Contractor_____License No._____License No._____ Street and Number_____ City_____ State___ Plugging method used..... Date Plugged.___ Cement Plugs were placed as follows: Plugging approved by: Depth of Plug No. No. of Sacks Used **Basin Supervisor** From To FOR USE OF STATE ESCINEER ONLY ENDINEER DELICE Date Received 15 :8 HA 8- AAM 7801 L-6108 OUD Location No. 18.38.7.2.40 Use... File No.

.



ection 6	LOG OF WELL			OF WELL
Depth i		Thickness in Feet	Color	Type of Material Encountered
From	To	In reet		
0	18	18		Soll
18	20	_2	······	Caltone
20	40	20		sand and rock
40	20	30		aater sand
20	23	25	·····	Sandy olay
95	120	25		water sand
			•	
	·		<u></u>	
			·····	
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			·····	

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

Well Driller

Revised	June	1972
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STATE ENGINEER O
WELL RECORD

EIELD ENGR LUG

ection	1.	GENERAL	INFORMATION	V

E

			Section 1. GENERAL INFORMATION	
Street of	or Post Office A	ddress	EEPINZ CO. Ow OW MARLAND USS N.M. 88240	•
			and is located in the:	
a	¼	VASE VANE	4 of Section Township R	ange_ 38- EN.M.P.M.
b, Trac	t No	of Map No	of the	
			6 of the 2rd de s. it D.	EL NORTY
		feet, Y=	feet, N.M. Coordinate System	Zone in Grant.
(B) Drilling	Contractor	LCCA 1	Trilling Co. License No.	WD-763
Address _	Lol w	BeNa	er Hopbs N.m.	38340
-			ed _7.5.78_ Type tools Trycon	
Elevation of la	and surface or .		at well is ft. Total dcpt	h of wellft.
Completed we		shallow 🗆 artes		
		Section	2. PRINCIPAL WATER-BEARING STRATA	
Depth From	in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
65	100	35	SAND & SAND STONS	19
			P.J. J. h / c. S	

Diameter	Pounds	Threads		on 3. RECORD	OF CASING Length		Perfo	orations
(inches)			Type of Shoe	From	То			
55/8	PI'C 160		0	100	70		80	100
				.[

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

Section 5. PLUGGING RECORD

Plugging Contractor					
Address		N	Depth	in Feet	Cubic Feet
Plugging Method		No.	Тор	Bottom	of Cement
Date Well Plugged		1			
Plugging approved by:		2			
		3			
State Engineer Repre	esentative	4			
FOR US	E OF STATE ENGINE	ER ONL	Y		

Date Received July 11, 1978

Quad

DTC

Use ___

File No. **L-7935**

2

_ Location No. 18.38.7. 24130

___ FWL _____ FSL_

6

			Section 6. 1	OG OF HOLE			
Dep		Thickness		Colo Type of Materia	al Encount	tered	
From	To	in Feet					
0	45	45		1-e			
45	100	55	SANd &	SAN' STONE	feb	612-5	
<u></u>				·			
<u> </u>			· · · · · · · · · · · · · · · · ·	·····			
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		Section 7	. REMARKS AND A	DDITIONAL INFORMATION		JUL	
					2 EVAIVEER OFFICE		
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					ICE	30	

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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.

Heftor Driller r

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

Form WR-23 GR. LOG FIEL

STATE ENGINEER ICE 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. a ...

Section 1			(A) Owner of well	City of Hobbs	"Well No.	
			Street and Number			
	Section	7	City		State New Mex	dico
			Well was drilled under SE 14 SW 14 NI			
		l]	(B) Drilling Contractor			
			Street and Number	212 E. New Yor	k	
	<u> </u> 8		City			
			Drilling was commence			
		L	Drilling was completed.			

(Plat of 640 acres)

180' Elevation at top of casing in feet above sea level..... shallow Depth to water upon completion. 34'

State whether well is shallow or artesian_

PRINCIPAL WATER-BEARING STRATA

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

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

Se	ectior	4

L-3274

File No....

Section 2

RECORD OF MUDDING AND CEMENTING

Depth	in Feet	Diameter	Tons	No. Sacks of	Methods Used		
From	To	Hole in in.	Clay Cement	Interiods Osed			
0	30	30"		31 yds	poured in from top		
		{ }					

Section 5 PLUGGING RECORD License No. Name of Plugging Contractor..... Street and Number..... Plugging method used..... ___Date Plugged.___ ___19___ Plugging approved by: Cement Plugs were placed as follows: Depth of Plug No. No. of Sacks Used **Basin Supervisor** From То FOR USE OF STATE ENGINEER ONLY Date Received Sept. 11 1967 8:29AM Use Muni Location No. 18.38.7. 234434

2

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Section 6			LOG	OF WELL
Depth From	in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	2	2	brown	top soil
2	32	30	white	caliche and caprock
32	45	13	buff	sandrock and sand layers
45	50	5	red	red sand
50	55	5	bu ff	clay
55	174/	124	buff	sand and rock stringers
174	180	6	red	redbed
				L'S Elev Depth to K Elev of K Trc,
				Depth to K Tre /////
				Elev of KTrc22623,
			· · · · · · · · · · · · · · · · · · ·	
				······································
				Loc. No. 18. 38. 7. 234434
				Loc. No/ <i>B. 38. 7. 234434</i>
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet
				Determined by inst. Leveling
			<u> </u>	· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·	
			· · ·	
			<u></u>	

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

By: (s) Larry Haney

Well Driller

Revised	June	1972
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STATE ENGINEER O

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				WELL REC	ORD		times as	
			Section	1. GENERAL I	INFORMATIO	N	FIELD ER	the Li
) Owner c	of well <u>Ca</u>	stle and	d Wigzel	1			Well No	
Street or	r Post Office A	ddress P	.0. Draw	ver 831				
City and	State Mid	land, To	<u>exas 7</u>	9701		·····		
ell was drille	d under Permi	t No	7212		and is locate	d in the:		
a	¼	¥a	¼ of S	ection	Township _	Range	·	N.M.P.I
b. Tract	No	of Map N	io	of the	e			
c. Lot N Subd	No. <u>3</u> Ivision, recorde	of Block No	o. <u> </u>	of the	e <u>Del No</u> County.	orte Industr	ial (2n	d <u>unit</u>
					.M. Coordinate	System	······································	
) Drilling (Contractor	Abbott	Bros.			License NoW	D - 46	
ldress	O. Box 6	537, Hol	obs, New	Mexico		<u>,</u>		<u> </u>
illing Began	6/10/	/74 Co	mpleted	6/12/74	_ Type tools	Cable	_ Size of hole _	8 in
					11 i.	ft. Total depth of		5
evation of la	nd surface or .							
mpleted wel	llis ⊡XIs	shallow 🗖				r upon completion of	well 50	ft
Depth	in Feet	S Thickne	<u> </u>	ICIPAL WATE	R-BEARING ST		Estimated	Vield
From	То	in Fee		Description of	Water-Bearing H	Formation	(gallons per r	
50	100	50	S	and				
					· · · ·			
		<u> </u>						
			Sectio	on 3. RECORD	OF CASING			
Diameter	Pounds	Threads		in Feet	Length	T	Perfor	ations
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Shoe	From	Το
	23	10	0	100	100	None	50	100
i	 							
		Sec	tion 4. RECO	RD OF MUDDI	NG AND CEM	ENTING		
			1 0	ks Cu	bic Feet	Method of	of Placement	
Depth From	in Feet To	Hole Diameter	Sac of M	ud of	Cement			
		Hole		ud of	Cement			
		Hole		ud of	Cement	Cement at ·		
		Hole		ud of	Cement	Cement at		

Section 5. PLUGGING RECORD

Plugging Contractor					·······	л Ј
Address	No	Depth in Feet		Cubic Feet	1.1	
Plugging Method		No.	Тор	Top Bottom	of Cement	12
Date Well Plugged		1				!
Plugging approved by:		2				1
		3				1
	State Engineer Representative	4	······································			1
	FOR USE OF STATE EN	GINEER ONLY				
Date Received						
	Quad		FW	L	_ FSL	

File	No

2-72/2

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Location No.___ _ Use .

-			Section 6. LOG OF
Depa	Feet	Thickness in Feet	Color and Type of Material Encountered
From	To	In reet	
0	2	2	Surface Soil
2	20	18	Caliche
_20	50	30	Sand
_50	100	50	Water Sand
<u></u>			
<u></u>	1		
	-		
. <u></u>		+	· · · · · · · · · · · · · · · · · · ·
		+	
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	·		<u>.</u>
		Section 7	REMARKS AND ADDITIONAL INFORMATION

Section 7. REMARKS AND ADDITIONAL INFORMATION

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TATE E	'SEP
E ENGINEER	3
L.N	AH
30	60
FIGE	47

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 H.S.

INSTRUCTIONS: This '

should be executed in triplicate, preferably typewritten, and submitted t of the State Engineer. ctions, except Section 5, shall be answered as completely and accurate drilled required or downer d. When this form is used appropriate district office possible when any well is

(This form to be executed in triplicate)

	Date of Receipt			Per	mit No. 1-1173
	Name of permittee,	Harry C	lluston		
	Street or P.O	r181		ity and StateIovingt:	77.11
	1. Well location and c	lescription: The.	(shallow or artesian)	well is located in SV.	
:		Section 6	, Township	89 Range 380	; Elevation of top
	casing above sea le	vel,	feet; diameter of be	ole,	l depth, 50 f
		completion,	30 feet; drilling	g was commenced	2
۰.	and completed	8-23	. 19 5 1 nai	me of drilling contractor	B. Burton
"					
		; Addre	ess,	Hobbs R. K. ; Driller's	License No.11 LL4
•	2. Principal Water-bea	ring Strata:	,*		
•	Depth in From	Feet To	Thickness	Description of Water-bear	ng Formation
	No. 1 0	1	1	tight soil	
· . '	No. 2 1	21	20	caliche	
1	No. 3 21	30	9	sand	stone
	No. 4 30	50	20	watersand	
	No. 5				
	3. Casing Record: Dismeter Pound, in inches per fi	o Threads De per tach	opth of Casing or Liner Top Bottom	Feet of Casing Type of Shoe	Perforations From To
	in increase per 14				
		······			
		·····			· · · · · · · · · · · · · · · · · · ·
		······		·····	
	······				
		<u></u>			
	4. If above construction	replaces old wel	l to be abandoned, giv		¥,

•						
date of plugging	., 19;	describe how		plugged:	*****	
		1 5	D			
			-0			
	Jf	17 19	52			
		OFFICE	RUBOR	ļ	***	
	ARTESIAN	LL, NEW MI	XICO	J		

18.28.6.433

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5. Log of Well:

edollao	50	57	T.
enofebres	6	OE	57
риздетет	50	0\$	06
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The undersigned hereby certifies that, to the best of his knowledge and pellet, the foregoing is a true and co rect record of the above described well.

Licensed Well Driller

Instructions

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



	_					Revised June 1972		
STATE ENGINEER CORE								
			WELL	RECOR	D	THELE HEAR LU		
	(A) Owner of well R. N. RobiNSON Owner's Well No. 625731 Street or Post Office Address City and State Abb S. N. M. 58290							
Well was drilled under Permit No. $\frac{2 - 7575}{25}$ and is located in the:								
a and is located in the: a 4SE 4 NE 4 of Section Township Range Range RANGE N.M.P.M.								
c. Lot N Subd	c. Lot No. 12 of Block No. 2A of the Del Norte INdust-rial Subdivision, recorded in EA County.							
	d. X= feet, Y= feet, N.M. Coordinate System Zone in the Grant.							
(B) Drilling	Contractor	A.D. Old	AKer	W. W	Ser License	No. WD 657		
Address L	D. Box	232/	Hobbs	N.,	M. 882	48		
Drilling Began	6-7-	Complete	16-9-	7 <u>6</u> т	ype tools CAD	<u>size of hole</u> in.		
Elevation of la	nd surface or	3650		at well is.	3650 ft. Tota	ald cp th of well $1/2$ ft.		
Completed wel	lis ⊠Ssl	hallow 🗆 artesi	an.	Der	oth to water upon com	pletion of well 65 ft.		
		Section	2. PRINCIPAL V	VATER-B	EARING STRATA			
Depth From	in Feet To	Thickness in Feet	Descripti	on of Wat	er-Bearing Formation	Estimated Yield (gallons per minute)		
65	112	47	WAT	er	SAND	356PM		
	······································			<u></u>				
			<u> </u>					
			Section 3 REC	ORD OF	CASING			

Diameter	r Pounds	Pounds Threads	Depth in Feet		Length	Type of Shoe	Perforations	
(inches)	per foot	per in.	Тор	Top Bottom (feet)	(feet)	Type of Shoe	From	То
6 3/8			ð	112	112	NONE	100	112
						,		1
			<u> </u>	1				1
						1		

Depth i	Depth in Feet		4. RECORD OF M Sacks	Cubic Feet	······································
From	То	Diameter	of Mud	of Cement	Method of Placement
		8			
 		++			

Section 5. PLUGGING RECORD

Plugging Contractor				
Address		Depth in Feet		Cubic Feet
Plugging Method	No.	Тор	Bottom	of Cement
Datc Well Plugged	1			
Plugging approved by:	2			
	3			
State Engineer Representative	4			

Date Received

4

and the state of the

FOR USE OF STATE ENGINEER ONLY

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•

2-7575 File No._

Quad _____ FWL ____ FSL ____ Use Dorn Location No. 18.38.7.224

i

	<u></u>	بنائلا والتكنان وعريز فيتجمعون	Section'6. LOG OF HOLE
Dep From	Feet To	Thickness in Feet	Color Type of Material Encountered
8	/	1	Top Soit BLACK. Soft
1	24	25	Top Soil BLACK. 5054 CALICKE GRAY Med
26	36	10	HARD POCKS Brown
36	112	76	WATER SAND RED Brown Soft.
		ļ	
		·	
		····	
		····-	
		Section 7	REMARKS AND ADDITIONAL INFORMATION
			STORE STORE

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.

X 0 er lah Driller

1

INSTRUCTIONS: This for of the State Engineer. A drilled, repaired or deepene. When this form is used as a plugging record, only Section 1(a) and Section

- E	12333	<u> </u>	
- <u>E</u> l	irro,	S. Antikures	- in select

				•	_		Rev	vised June 1972
			ST	ATE ENGINEE	R OFE			
				WELL REC	ORD		FIELD	S Antikures L
			Section	1. GENERAL I	NFORMATION	N		
Street or	Post Office A	ddress LOV	rington	Highway		Owner	's Well No	
-				88240		····		
Well was drille	d under Permi	t No	.7078		_ and is located	in the:	,	
a		<u>%_SW_%</u> _	SE ¼ of S	Section <u>6</u>	Township _	<u> 185 Ran</u>	ge <u>38E</u>	N.M.P.M
b. Tract	No	of Map N	0,	of the	·			
				of the				
					M. Coordinate	System		
(B) Drilling (Contractor	Abbott	Bros.		·····	License NoW	D -4 6	
Address P.	0. Box 6	537, Hob	bs, New	Mexico	88240			
Drilling Began	7/12/	<u>73</u> Con	npleted	7/13/73	_ Type tools	Cable	Size of hole	<u>8</u> in.
Elevation of la	nd surface or .			at we	1 is	ft. Total depth (of well <u>120</u>	ft.
Completed wel	lis 🖾 s	hallow 🗆				upon completion of	of well <u>58</u>	ft.
Denth	in Feet	Se Thicknes		NCIPAL WATEI	R-BEARING ST		Estimated	Vield
From	То	in Feet		Description of	Water-Bearing F	ormation	(gallons per	
58	120	62		Sand		: 		
					. <u></u>		·	
			Sectio	on 3. RECORD	OF CASING			
Diameter	Pounds	Threads	····	in Feet	Length	Type of Shoe		rations
(inches)	per foot	per in.	Тор	Bottom	(feet)		From	<u> </u>
7	23	10	0	120	120	NONE	74	120
			<u>.</u>					

TING	MUDDING AND CEM	4. RECORD OF	Section		
Method of Placemer	Cubic Feet	Sacks	Hole	n Feet	Depth ir
	of Cement	of Mud	Diameter	То	From
Cement at top					

Section 5. PLUGGING RECORD

	Section 5. PLUGGING 1	RECORD				ς,
Plugging Contractor Address		_	Depth	in Fect	Cubic Feet	r ¹ ,
Plugging Method		No	Тор	Bottom	of Cement	
Date Well Plugged	······································					
Plugging approved by:		2				
		- 3				
	State Engineer Representative	4				

FOR USE OF STATE ENGINEER ONLY

Use ___

Quad

-- FWL ------ FSL.

DT.C. Location No. 18. 38. 6. 4.33

Date Received

File No.____

L-7078

		<u> </u>	Section 6. LOG OF
Dep	Feet	Thickness in Feet	Color and Type of Material Encountered
From	То	in reet	
0	3	3	Surface_soil
3	26	23	Caliche
26	58	Sand	(tight)
58	86	28	Sand-water
86	114	28	Sand (tight)
114	120	6	Sand-water
<u> </u>	 	·	
<u></u>			· · · · · · · · · · · · · · · · · · ·
l	l	Reation 7	REMARKS AND ADDITIONAL INFORMATION

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER O	•75 .SEb
ENG	æ
NEE	АН
N. M.	60
OFFICE	47

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 H.S.

INSTRUCTIONS: This ' of the State Engineer.

2

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should be executed in triplicate, preferably typewritten, and submitted t ctions, except Section 5, shall be answered as completely and accurate

appropriate district office possible when any well is

Oni in S.S. Form WR-23

STATE ENGINEER OFFICE

∴ Ain #3 Gulf

D.

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 DONNEL			
	Street and Number Box 13	08		
	City Odessa	······	State	Texas
	Well was drilled under Permit			
	(B) Drilling ContractorAbhr Street and NumberBox			
	City	98	State	New Nox1co
	Drilling was commenced	August	30	19.57
	Drilling was completed	August	32	1957
(Plat of 640 acres)		-		-

Section 2

PRINCIPAL WATER-BEARING STRATA

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

Section 3

. . . **. . .**

RECORD OF CASING

Dia	Pounds	Threads	D	Depth		Type Shoe _	Perfor	ations
in.	ft.	in	Top	Bottom	Feet	Type Silve ~	From	То
								·····
								<u>_</u>

Section 4 RECORD OF MUDDING AND CEMENTING

	_				
Depth i		Diameter	Tons	No. Sacks of	Methods Used
From	То	Hole in in.	Clay	Cement	
	·				
		<u> </u>			
		1			
		11			, <u>, , , , , , , , , , , , , , , , , , </u>
i					

Section 5

PLUGGING RECORD

Name of Plugging C	ontractor	License No.	
Street and Number	City	State:	
Tons of Clay used		pe of roughage	

Plugging method used.... Plugging approved by:

Cement Plugs were placed as follows:

.19_

Date Plugged._

	Basin Supervisor		No.	Depth From	of Plug To	No. of Sacks Used
FOR USE OF	STATE ENGINEER ONLY					
Date Received	C F F I C E GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO					· · · · · · · · · · · · · · · · · · ·
File No. 2-3672	Use	. ريد .	<u>چر.</u>	L	cation No.,	18.38.6.420

Section	6	
	-	_

an 1999 a 1999 a 1999 an 1999



Depti From	in Feet	Thickness in Feet	Color	Type of Material Encountered
0	1	1		8011
1	22	21		caliche
22	35	13		sand
35	40	5		sand rock
40	50	10		sand
50	100	50		water sond
	1	· ·		
		<u> </u>		
		1		
······				
				•
	·			
	1			
			h	
	+			
		. <u></u>	· 	
			<u></u>	
	· .			

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.

(illiott The <u>Mell</u> Well Driller ī

Revised June 1972

FIFLD ENGR. 103

STATE ENGINEER OFFICE WELL RECORD

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2

					RAL INFOR				
	ner of well						Owner	's Well No	
	y and State					0			
Well was	drilled under Perm	it No. T	2790		and i	is located	l in the		
a	¼	% <u>NE</u> %	SW_ % of Se	ection	- 6 Tov	wnship _	<u>185</u> Ranj	3e <u>38E</u>	N.M.P.
b. 7	Tract No	of Map No	•	(of the			······································	
c. I	Lot No	_ of Block No			of the		······		
5	Subdivision, record	led in	Lea		County.	•			
							System		
	he						·		
(B) Dril	lling Contractor	Abbott	Bros. D	rilli n			License No	WD-46	
Address _		637, Hob	bs, New	Mexic		240	·		
		-	-						
							able		
Elevation	of land surface or			a	at well is		_ ft. Total depth o	of well13	10f
Complete	d well is 🙀	shallow 🗔 a	rtesian.		Depth	to water	upon completion of	of well	,8f
		Sec	tion 2. PRIN	CIPAL W	ATER-BEAL	RING ST	RATA		
D	epth in Feet	Thickness	1				1	Estimated	
From	To	in Feet			n of Water-B		ormation	(gallons per	minute)
58	82	24	Sar	nd					
106	141	35	Sar	nđ					
150	166	16	Sar	1 g					
······		1					l		
					ORD OF CA	SING		<u>r</u>	<u> </u>
Diamet (inche:		Threads per in.	Depth Top	in Feet Botto		ngth eet)	Type of Shoe	From	rations To
10 3/4	34	Welded	0	170	1	70	NONE	90	170
									ļ
		Sectio	on 4. RECOR	RD OF MI	UDDING AN	ND CEM	ENTING		
	epth in Feet	Hole	Sack	s	Cubic Fe	et		of Placement	
From	То	Diameter	of Mu		of Cemer				· <u></u>
			ļ						
				.					
				ļ		1			
			Section	n 5. PLUG	GING REC	ORD	·····		
	ontractor			n 5. PLUG		ORD			
ddress _	ontractor		·		GGING REC	ORD No.	Depth in Fe Top F		bic Feet Cement
Address llugging M Date Well I	cthod		·		GGING REC	No.			
Address llugging M Date Well I	cthod		·		GING REC	No.			

IRR.

Use

L-2790

File No.____

د

_____ 18.38.6.414114-

11115 ---

Section 6. LOG OF HOLE						
De From	Feet To	Thickness in Feet	Colored Type of Material Encountered			
rrom						
0	2	2	Surface Soil			
2	26	24	Caliche			
26	.58	32	Sand-tight			
58		24	Sand-water			
82	106	24	Sand-tight			
106	141		Sand-water			
141	150	9	Sand-tight			
150	166	16	Sand-water			
166	_170	44	Sandy-clay-			
	· · · · · · · · · · · · · · · · · · ·					
			DEMARKS AND ADDITIONAL INFORMATION			

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Section 7. REMARKS AND ADDITIONAL INFORMATION

2 18. HV th 8 22 MIG STATE ENGINEER \$ ROSWELL, NH

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 ablott, Driller V.B.

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

ressible when any well is he commistant



E STATE ENGINEER

EIELD ENGIN. LOG

WELL RECORD

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

Section	1

	(A) Owner of well		
	Street and Number	,	·
	City Herris	State	
	Well was drilled under Perr	nit No. Land is located	in the
	(B) Drilling Contractor	ADMCTT BECS. License No. 7 607	<u>TI-46</u>
[1	State N.L.	
	-	10112 20 1	
(Plat of 640 acres)	Drilling was completed	1 1 ¹	9 <u>.5 9</u>

Elevation at top of casing in feet above sea level_____Total depth of well____206 State whether well is shallow or artesian and low Depth to water upon completion 5.

Section 2 PRINCIPAL WATER-BEARING STRATA									
No.	o. Depth in Feet From To		Thickness in Feet	Description of Water-Bearing Formation					
1	59 .	1:00	65	weter cané					
2	140	100	40	w ten ord					
3									
4									
5									

Section 3	Section 3 RECORD OF CASING								
Dia	Pounds	Threads	Depth		Feet	Type Shoe	Perforations		
in.	ft.	in	Top	Bottom	1.000	xype blice	From	To	
123/4	- 75	w-lded	_1	500	208	none	141	206	
							<u></u>		
		1		1		1 1		1	

RECORD OF MUDDING AND CEMENTING Section 4

1

Depth	in Feet	Diameter	Tons	No. Sacks of	Methods Used
From	To	Hole in in.	Clay	Cement	
_					
 					44

Section 5

مربعة ومعروبه مريا

PLUGGING RECORD

Name of Plugging Contractor		License No.				
Street and Number	City	ty State				
Tons of Clay used	ed		Type of	roughage		
Plugging method used	,	Dat	e Plugged			
Plugging approved by:		Cemen	t Plugs wer	e placed as follows:		
·	No.	Depth	of Plug	No. of Sacks Hand		
Basin Supervisor		From	То	No. of Sacks Used		
FOR USE OF STATE ENGINEER ONLY						
Date Received	-					
			<u>}</u>	<u> </u>		
File No. 2- 5294 Use I	RR	L	ocation No.	18.38.6.41312		

i.							
section 6			LOG OF WELL				
Depth	in Feet	Thickness	Color	Type of Material Encountered			
From	То	in Feet	· · · · · · · · · · · · · · · · · · ·	Type of Material Encountered			
Ü Ü	1	1	brosa	soil.			
1	15	15	f: r r-y	crliche.			
15	40.	25	broun	send			
4 <u>0</u>	55	15	brown	eund rodk			
55	100	65	brown	XXXXX WODOR REAC			
120	140	20	Batteriowy	tidd, ond			
140	1.40	40	hro: n	heathan it had			
120	1.90	10	10.1.10	[ריא: און			
190	200	16	1.70.00	send b cloy			
	1			· · · · · · · · · · · · · · · · · · ·			
		<u> </u>					
			· · · · · · · · · · · · · · · · · · ·				
			······	· · · · · · · · · · · · · · · · · · ·			
		<u> </u>					
			· · · · · · · · · · · · · · · · · · ·				
			·				
				· ·			
· .							

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

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Murrel abbat

	-						1	evised June 1972
· _			ST.	ATE ENGINEE WELL REC			1	
				WELL HE			٩.	· · • • •
	of well r Post Office A	ddress		1. GENERAL I 21/066		<u>Carbe</u> Owne	r's Well No	
ell was drille	d under Permi SE	t No. <u>2 - 8</u> SE		6				
a	¼ 	<u> </u>	14% of S	ection-Be	Township	18-S Rar	nge <u>38-E</u>	N.M.P.M.
b. Tract	No	of Map No		of th	e			
c. Lot N	۱٥	. of Block No		of th	e			
		ed in						
		feet, Y=		feet, N	.M. Coordinate	e System		
) Drilling	Contractor	C.D.	AL	Allin	,	License No.	00 603	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	201	11 11	14.	1.0 11	11. 5	7. 771. 88	5 V A	
					,	•		
illing Began	11.22	78 Compl	eted //-	28-78	_ Type tools _	<u>Apuddii</u>	J Size of hole	ein.
evation of la	nd surface or _			at we	1) is	ft. Total depth	of well4	<u>0</u> ft.
mpleted we	_/	hallow 🗆 art				er upon completion		,
		Section	on 2. PRIN	CIPAL WATE	R-BEARING S	TRATA		
Depth From	in Feet To	Thickness in Feet		Description of	Water-Bearing	Formation	Estimate (gallons pe	
110111		70	1	1 4				
02	140	$\frac{1}{2}$	$+-q^{e}$	a Da	1 1.		<u> </u>	
		ļ						
		1			·			
	l	<u> </u>	Sectio	n 3. RECORD	OF CASING			
				·····	T	······································		
Diameter	Pounds	Threads	Depth	in Feet	Length	Type of Shoe	Per	orations
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	Per From	To To

Section 5. PLUGGING RECORD

Section 4. RECORD OF MUDDING AND CEMENTING

Sacks of Mud

5

Cubic Feet of Cement

Gel

Plugging Contractor	r			
Plugging Method	No.	Top	in Feet Bottom	Cubic Feet of Cement
Date Well Plugged	1	<u> </u>	Bortom	of content
Plugging approved by:	2			
Canto Davido De constante e	3			
State Engineer Representative		l	L	l

FOR USE OF STATE ENGINEER ONLY

Use DTC

Date Received August 16, 1979

Quad _____

____ FWL _____ FSL_

Method of Placement

u/water

J File No. L-8007

-

Depth in Feet

From

62

То

140

Hole Diameter

10

2

٠.,

Location No. 18.38.6. 34413 4

			Section 6. LOG OF HOLE
Dep From	Feet To	Thickness in Feet	Color Type of Material Encountered
0	3	3	Los pril
3	62	59	Sop soil. White Caliche rock Red Band uf lack stringers)
67	140	78	Red Band und Practi strainers)
			New comme up race perinque
	1		
	1	1	
		-	
		1	
		<u> </u>	
		<u> </u>	
			1
I		L	

والمسترجع والمعاد والمعالم

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

C. m. Briff .

u Liè

INSTRUCTIONS: This form bould be executed in triplicate, preferably typewritten, and submitted trons, except Section 5, shall be answered as completely and accurate drilled, repaired or deepened, when this form is used as a plugging record, only Section 1(a) and Section 5 and be completed.

Revised June 1972

FERRE 1.1

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

Street of	or Post Office A	m Sharp ddress 1815 bbs, New Mex	<u>Chama</u> ico 88240	_ Owner's Well No	L-8549
			9 and is located in the: _ ¼ of Section 6 Township 18	Range <u>38 E</u>	N.M.P.M.
c. Lot	No.1.2.3.4.	of Block No.	of the of the Del Norte County.		
		_ feet, Y=	feet, N.M. Coordinate System		
(B) Drilling	Contractor(G. D. Oldako	er Licens	e No WD-657	
Address	P. 0.	Box 2321	Hobbs, New Mexico 88240		
		-	ed <u>10-1-81</u> Type tools <u>Rota</u>		
	_	hallow 🗖 artes	at well is3650 ft. Tot ian. Depth to water upon con 2. PRINCIPAL WATER-BEARING STRATA	-	
Depth	in Feet	Thickness		Fetimat	ed Yield
· From	To	in Feet	Description of Water-Bearing Formation		er minute)
48	130	72	Water Sand	25 GPM	
		د	Section 3. RECORD OF CASING		

Diameter	Pounds	Threads	Depth	in Feet	Length	Type of Shoe	Perfor	tions
(inches)	per foot	per in.	Тор	Bottom	(feet)		From	То
6 5/8	 		0	130	130	None	120	_130_
		L						

Section 4. RECORD OF MUDDING AND CEMENTING
--

Depth i	n Feet	Hole	Sacks	Cubic Feet	Method of Placement
From	To	Diameter	of Mud	of Cement	Method of Flacement
		103			

Section 5. PLUGGING RECORD

ddress [Depth in Feet		Cubic Feet
Plugging Method	No.	Тор	Bottom	of Cement
Date Well Plugged				
lugging approved by:	2			
	3			
State Engineer Representative	4			

Date Received March 26, 1982 Quad ____

FWL _ _ FSL Location No. <u>18.38,6,344113</u>

L-8549 File No._

DTC _ Use _

			Section 6, LOG OF HOLE
Der From	Feet To	Thickness in Feet	Color Type of Material Encountered
0	3	3	Top soil Brown
3	15	12	Caliche
15	45	30	Gray Soil
45	46	1	Hard Brown Rock
46	130	74	Water Sand
130			
		[
	······		

Section 7. REMARKS AND ADDITIONAL INFORMATION

Han 26 STATE ENGLISER ROSVELL, WI ∞ 17 HH '82

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.

<u>Ulalin</u> Driller

INSTRUCTIONS: This for of the State Engineer. A

should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office tions, except Section 5, shall be answered as completely and accurat drilled, repaired or deepend. When this form is used as a plugging record, only Section 1(a) and Section

possible when any well is he completed

Form WR-23

rig ~ S.f. STATE ENGINEER OFFICE

WELL RECOND

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

<u>.</u>...

Section 1		, (A) Owner of well Clau	od Breckon			
		Street and Number Star City Cleaned Well was drilled under Pern SW 1/4 NW 1/4 NW 1/4 (B) Drilling Contractor J	route A Hobbs mit No. <u>1</u> 2453 W of Section 7 F Berton	Twp. 183	Rge	<u>38e</u>
		Street and Number Box City Drilling Was commenced Drilling Was completed	llobbs May 22-	StateN	M.	19 <u>58</u> 19 <u>58</u>
(Pla	at of 640 acres)			•••		

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

No.	Depth in Feet		Thickness in Feet			Descri	ption (of Wate	er-Bearing Formation
	From	То	reet						
1	drille	d and	bailed, from	1 76 t	o 90	feet	in	wet	caving sand.
2									
3									
4									
5									······

Section 3	tion 3 RECORD OF CASING Mone									
Dia Pounds	Pounds	Threads	Depth		Frat	Type Shoe	Perforations			
in.	reet Type		Type Shoe	From	To					
····										
						[····		

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter	Tons	No. Sacks of	Methods Used
From	То	Hole in in.	Clay	Cement	Michious Oseu
					,

Section 5	PLUGGING R	ECORD	
Name of Plugging Cor	ntractor	L j	icense No
Street and Number	City	Str	ate
Tons of Clay used	Tons of Roughage used		oughage
Plugging method used.		Date Plugged	
Plugging approved by:	;	Cement Plugs were	placed as follows:
FOR USE OF Date Received	MAY 27 1958	No. Depth of Plug From To	No. of Sacks Used
	OPFICE/ GROUND WATER SUPERVISOR ROBWELL NEW MEXICO	Location No. /	18.38.7.113





Depth i	n Feet	Thickness	Galar	These of Medaulat Descurtants
From	То	Thickness in Feet	Color	Type of Material Encountered
		1 1 1	2 4 3 4 4 4 4	
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ection 6

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.

Revised	June	1972

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STATE ENGINEER OF TCE WELL RECORD

Section 1. GENERAL INFORMATION

Street or	Post Office A	ddress60	<u>)50 Lovin</u>	gton HWY.) Owne	r's Well No		
City and Well was drilled			<u>Mexico</u>			ed in the:			
a	<u>%</u> <u>NE</u>	%_ ^{NE} _4 ¹	W ¼ of S	ection	Township	<u>18 S</u> Rar	ige <u>38 E</u>	N.M.P.M	
b. Tract	No	of Map N	lo	of the	e				
c. Lot No Subdiv	o vision, recorde	of Block No	1 Lea	of the	<u>Del N</u> County.	orte Industri	ed		
		feet, Y=		feet, N	.M. Coordinate	e System			
(B) Drilling C	ontractor		<u>Oldaker</u>	· <u> </u>	<u></u>	License No	WD-657		
Address	<u> </u>	ox 2321	Hobbs, N	lew Mexico	8824	40			
Drilling Began	2-17-82	Cor	npleted <u>2</u>	-19-82	_ Type tools _	Rotary	Size of hole	10 ¹ 5 in.	
Elevation of lan	d surface or .	3650)	at we	ll is3650	ft. Total depth	of well130	ft.	
Completed well	_					r upon completion			
Joinpietea wen							01 wen		
Depth i	n Feet	Thickne	35	CIPAL WATE		1	Estimated	(ield	
From	Τo	in Feet	· · · · · · · · · · · · · · · · · · ·	Description of	Water-Bearing	Formation	(gallons per minute)		
58	130	72	w	ater, Sand			25 GPN		
		}							
L,			Sectio	n 3. RECORD					
Diameter	Pounds	Threads		in Feet	Length	T	Perfor	ations	
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Shoe	From	To	
6 5/8			0	130	130	None	120	130	
l		l					<u> </u>		
Depth in	1 Feet	Hole	tion 4, RECO		NG AND CEM	IENTING			

Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	То	Diameter	of Mud	of Cement	Method of Flacement
		10 ¹ 3			
			·		
		ļ ·			
				1	

Section 5. PLUGGING RECORD

Plugging Contractor Address	Na	Depth	in Feet	Cubic Feet
Plugging Method	No.	Тор	Bottom	of Cement
Date Well Plugged	1	- <u></u>	1	[
Plugging approved by:	2			
	3			
State Engineer Representative	4			

Date Received March 17, 1982

L-8663

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FOR USE OF STATE ENGINEER ONLY Quad __

DTC

Use

_ FWL ____ _ FSL_ ___ Location No.____18,38,7,122411

File No.

			Section 6. LOG OF HOLE
Dep From	Feet To	Thickness in Feet	Color Type of Material Encountered
From	10	- mircor	
0	22	2	Brown Dirty
2	20	18	Caliche
20	25	5	Gray Soil
25	55		Brown Rock
55	130	75	Water Sand
130			
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Section 7. REMARKS AND ADDITIONAL INFORMATION

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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.

in alican Driller

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

	•								R	evised June 1972			
				S	TATE ENG	INEER	OFFICE						
	WELL RECORD									ENGR. LO			
				Section	1. GENE	RAL INF	ORMATION	1					
			l.						r'r Well No				
	(A) Owner of	(A) Owner of well Credition Sands Mabel Hannes Die Owner's Well No.											
		City and State H bugu engue New Alex. 5-7/23											
		Well was drilled under Permit No. $4 - 5517$ and is located in the:											
	a	%%	All' 4.	HE 1/4 of	Section	7	. Township	15-5 Ran	8° <u>55-/-</u>	N.M.P.M.			
		No											
	c. Lot N Subdi	o. $\sqrt{-5^{-1}}$	of Block No d in	o9	·····	of the Cou	<u>Dc (A</u> nty.	orta fin	lustral	2/11/2			
	d. X= the		_ feet, Y=	·····	f	eet, N.M.	Coordinate	System		Zone in Grant,			
			Buid	s Dr	lling		ci	License No. L	009				
					•			5824					
			1		,		•						
		Drilling Began <u>9/15/81</u> Completed <u>9/30/81</u> Type tools <u>Retary</u> Size of hole <u>7</u> in. Elevation of land surface or at well is ft. Total depth of well <u>132</u> ft.											
	Completed well												
	Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness Estimated Yield												
	From	То	in Fee		Description of Water-Bearing Formation			ormation	(gallons per minute)				
	43'	130	57	1 410	water sand of T			Thin	500	-pun-			
					•		•	i unitry					
					<u>y_z_;</u> _j	<u>6</u>	<u>) </u>	1 Hierer 1					
				/) c	<u> </u>								
			L						<u></u>				
·				Sect	ion 3. REC	ORD OF	CASING						
a ser an an an a' s	Diameter (inches)	Pounds per foot	Threads per in.		h in Feet		Length (feet)	Type of Shoe		orations			
	1-11		per m.	Top	Botte	om /			From				
	52			1 apor	e / /	7_1/	21'	Noni	72	1191			
:			Sec	ction 4. REC	ORD OF M	UDDING	AND CEM	ENTING					
'n	[?] Depth i		Hole		cks		Cubic Feet Mathed of Placement						
	From	To	Diameter		Mud	01 Ce	ement	·····					
	<u> </u> _	I	<u></u>	<u> </u>			<u>l</u>						
	Plugging Contra	ctor	•		ion 5. PLU	GGING	RECORD						
	Address	<u></u>					- No.	Depth in F		ubic Feet			
	Plugging Method Date Well Plugg							Top	Bottom C	of Coment			
	Plugging approv						- 2						

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red by:	2			
	3			
State Engineer Representative	4			

Date Received October 8, 1981

File No.__L-8517

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FOR USE OF STATE ENGINEER ONLY Quad __

DTC

Use_

__ FWL _____ FSL_

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Location No. 18.38.7.211312 Temp. NE Cor.

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Section 6. LOG OF HOLE Feet Thickness De Col Type of Material Encountered in Feet From То 1 4/1 4 7010 50 Sand 4 $\sum c$ 20 9 21 toni 901 Say in .

Section 7. REMARKS AND ADDITIONAL INFORMATION

18. HV STATE ENGINEEI Roswell, NM 34 ဆ œ OCT

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.

chi := TH Driller

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

STATE	ENGINEER	OFFICE
SIAIC	ENGINEER	OLLICE

WELL RECORD

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a		IN THE REAL PROPERTY.
Section	I. GENERAL	INFORMATION

Street o	r Post Office A	ddressP.	O. Box	1754		Ow	ner's Well No	o	
City and	d State	Hobbs. N	L.M. 88;	240					
	ed under Permit								
а.	NW SW	NW1 4 ×8× 4	林校 ½ of Sec	tion 122x	7 Township	185	ange 3	8 E	N.M.I
c. Lot	No	of Block No.		of the					
	livision, recorde								
						System			
B) Drilling	Contractor	Alan Ead	es		<u></u>	License No	WD-1044	1	
Address		49 Katy	Lane, Ho	bbs. N.I	1. 8824	0			
Drilling Began	<u>4-20-87</u>		pleted <u>4-2</u>	20-87	Type tools	Rotary	Size o	f hole_6	5 1/2
Elevation of la	and surface or _	<u></u>		at well	l is	ft. Total dep	th of well	65	
Completed we	ell is 🗶 si	hallow 🗔 a				r upon completi	on of well	36	
Depth	in Feet	Sec Thickness		CIPAL WATER			Esti	mated	Yìeld
From	То	in Feet	D	escription of V	Vater-Bearing I	ormation	(gallor	ns per n	ninute)
36	65	29	Wate	er Sand			35		
	+					<u></u>			
<u></u>	ļ			<u></u>					
				<u> </u>		<u></u>			
Diamatas	Pounds	Threads	Section Depth in	3. RECORD (1		Perfor	ations
Diameter (inches)	per foot	per in.	Тор	Bottom	Length (feet)	Type of Sl	ioe F	rom	To
4 3/4	160psi				65		35	;	65
	1					<u> </u>			
					*	 			
	<u> </u>								I
		Sectio	on 4. RECOR	D OF MUDDI	NG AND CEM	ENTING			
Depth From	in Feet To	Hole Diameter	Sacks of Mu		bic Feet Cement	Metl	od of Placer	nent	
FION	10								
		[
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	Ii	L <u></u> ++	J					~	
lugging Contr	actor			5. PLUGGING	G RECORD				
ddress						Depth in			bic Feet
lugging Metho	od ged					Тор	Bottom	of	Cement
ate Well Plug	-				2				
ate Well Plug lugging appro		State Engi	neer Represen	ntative	- 3		······································	+	
-		orare ong.	•		L	L		<u>)</u>	
-			FOR USE O	E STATE EN	DINEED ON	v			
-	 Mav 22.		FOR USE O	OF STATE EN	GINEER ONL	Y			
lugging appro	May 22,		FOR USE O			Y FWL		_ FSL.	

			Section 6, LOG OF HOLE
De From	feet To	Thickness in Feet	Color Type of Material Encountered
0	1	1	Top Soil
1	15	14	Caliche
15	30	15	Sand
30	31	1	Rock
31	35	4	Wet Sand
35	36	1	Rock
36	65	29	Water Sand
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			· · · · · · · · · · · · · · · · · · ·
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		Castles 2	

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

Ĺ lont adi Driller

INSTRUCTIONS: This fo of the State Engineer. Al. drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(1) and Section 1(1)

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te appropriate district office as possible when any well is

Revised June 1972

STATE ENGINEER ICE

WELL RECORD	כ
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	WELL RECORD					FIELD Etcan. L			
			Section	1. GENERAL	INFORMATIO	אכ			
		ge Barton						348 1	
Well was drille	d under Permi	t No. <u> </u>	076		and is locat	ed in the:			
a	14 SW	14 <u>SE</u> 14	NW 14 of Se	ection 7	Township	185 Rai	nge <u>38E</u>	N.M.P.N	
b. Tract	No	of Map No), <u> </u>	of th	e				
c. Lot N	No. 2	of Block No.	6	of th	e 2nd U	nit Del Norte	Industricl		
		ed inLe							
		feet, Y=				e System			
						License No.			
Address P	. 0. Box 2	2321, Hob	bs, N. M.	88240	<u></u>		· <u></u>		
Orilling Began	5-30-79	Com	pleted <u>6-</u>	3-79	Type tools _	Cable	Size of hole	9 in	
levation of la	nd surface or .	3650		at we	11 is <u>3650</u>	ft. Total depth	of well <u>130</u>	ft.	
Completed we	llis 🖾 s	thallow 🗔 i	artesian.		Depth to wat	er upon completion	of well6	7 ft	
•				CIPAL WATE					
Depth	in Feet	Thickness			· · · · · · · · · · · · · · · · · · ·	·····	Estimated '	rield	
From	То	in Feet		Description of	Water-Bearing	Formation	(gallons per n	ninute)	
_67	130	63		Water, Sa	nd	····	25 G. P. M		
				,					
<u></u>	<u>I</u>	J.,	Section	n 3. RECORD	OF CASING	·			
Diameter	Pounds	Threads		in Feet	Length	Trans of Char	Perfor	ations	
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Sho	From	То	
6 5/8		ļ	0	130	130	none	110	130	
		Secti	on 4. RECOF	rd of muddi	NG AND CEN	MENTING			
	in Feet	Hole	Sack	s Cu	bic Feet		d of Placement	·	
Depth From	in Feet To	1	· · · · · · · · · · · · · · · · · · ·	s Cu			d of Placement	·	
		Hole	Sack	s Cu	bic Feet		d of Placement	- <u></u>	
		Hole Diameter	Sack	s Cu	bic Feet		d of Placement		
		Hole Diameter	Sack	s Cu	bic Feet		d of Placement		
		Hole Diameter	Sack of Mu	s Cu id of	bic Feet Cement		d of Placement		
From	To	Hole Diameter	Sack of Mu Section	s Cu	bic Feet Cement		d of Placement		
From ugging Contra	To	Hole Diameter 9	Sack of Mu Sectior	s Cu id of	bic Feet Cement	Metho Depth in F	eet Cul	pic Feet	
From ugging Contra ddress ugging Metho ate Well Plugg	To To d	Hole Diameter 9	Sack of Mu Sectior	s Cu id of	G RECORD	Metho Depth in F	eet Cul	pic Feet Cement	
From ugging Contra ddress ugging Metho	To To d	Hole Diameter 9	Sack of Mu Sectior	s Cu id of	G RECORD	Metho Depth in F	eet Cul		

Date Received June 13, 1979

File No.__

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L-8076

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FOR USE OF STATE ENGINEER ONLY

Quad ____ DOM. _ Use _

____ Location No. 18.38.7.14300

__ FSL_

_ FWL ____

De	Feet	Thickness	
From	То	in Feet	Color d Type of Material Encountered
-	-		
0	3	3	Top Soil Black Soil
3	18	15	Caliehe
18	33	15	Gray
33	63	30	Water, Sand
63	67	4	Rocks
67	120	62	Water, Sand
67	130	63	water, sand
130	<u> </u>		· · · · · · · · · · · · · · · · · · ·
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			REMARKS AND ADDITIONAL INFORMATION INFORMA
		Section 7.	

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

L Ver al Ł Driller

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INSTRUCTIONS: This for of the State Engineer. A!

bould be executed in triplicate, preferably typewritten, and submitted to appropriate district office ions, except Section 5, shall be answered as completely and accurate drilled, repaired or deepened When this form is used as a plugging record only Section 1(a) and Section .

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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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2.0.	INTRODUCTION2-12.1Purpose of the CEI2-12.2Participants2-12.3Inspection Procedures2-2
3.0	FACILITY DESCRIPTION3-13.1Facility Location and Ownership3-13.2Facility Operations and Waste Management Practices3-1
4.0	SAMPLING ACTIVITIES4-14.1Sample Description and Locations4-14.2Analytical Results4-4
5.0	OBSERVATIONS5-15.1Records Inspections5-15.2Visual Observations5-1
6.0	SUMMARY OF FINDINGS
7.0	REFERENCES
	NDIXA Fi Dhayne! Sorry this took solong.

APPENDIX B

APPENDIX C

APPENDIX D

APPENDIX E

APPENDIX F

In: RI & Can answer ang Juestion, Sa please call, 214-665-2287. AI Thanks for your cooperation. Computers are down, otherwised Ph would have sent letter Jug Pachin. In

LIST OF TABLES

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Figure 2	Site Layout Map	3-3
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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

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. . 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.

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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.

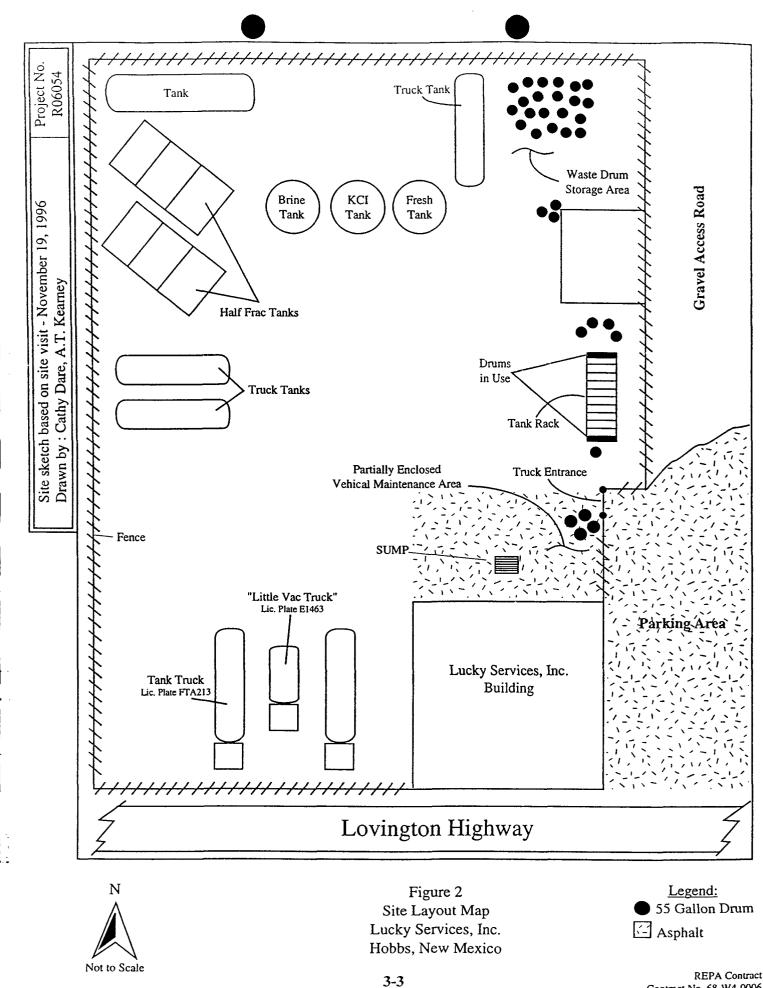
The Lucky facility does not have an EPA generator's identification number.

3.2 Facility Operations and Waste Managment 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



Contract No. 68-W4-0006

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 R_2P_2). 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 R_1P_{22} and R_1P_{23}). 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 R_1P_{24} and R_1P_{25}).

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 R_2P_1). 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 R_2P_3).

TABLE 2Sample Analytical Results

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

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

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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

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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

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APPENDIX D

Analytical Data

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCE

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

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MEMORANDUM

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

FROM:

Douglastzipka, 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





UNITED STATES ENVIRONMENTAL PROTECTION AGE

REGION 6 HOUSTON BRANCH 10625 FALLSTONE RD. HOUSTON, TEXAS 77099

December 30, 1996

MEMORANDUM

SUBJECT: Notice of Intent to Dispose of Samples 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.

 Facility Name
 NEW MEXICO OIL SERVICE COMPANY INITIATIVE (7GDXER01)

 Program Manager (signature)
 Date:

 Justification for holding samples
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Thank you for your cooperation in this request.



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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

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LABORATORY		DATE/TIME COLLECTED	RESULTS		
NUMBER	NUMBER STATION ID		IGNITABILITY'	pH²	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

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCE 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,

F.

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FROM:

DouglastLipka, 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



PAGE I OF 3 ATTACHMENTS 2

US EPA HOUSTON BRANCH

SAMPLE #: SOURCE: TYPE: ANALYSTS:	7GBXER01-13 NEW MEXICO OI COMPANY INITI AQ TCLP RC, LC, BS		DATE RECEIVED: DATE REPORTED:	21-Nov-96 19-Dec-96
PARAMETER	CONCENTRATION	DETECTION LIMIT <=		UNITS
ARSENIC BARIUM CADMIUM CHROMIUM LEAD MERCURY SELENIUM SILVER	0.004 0.12 ND ND ND ND ND ND	0.003 0.01 0.005 0.01 0.03 0.0002 0.003 0.01		MG/L MG/L MG/L MG/L MG/L MG/L MG/L

ND: LESS THAN DETECTION LIMIT

1

PAGE 2 OF 3 ATTACHMENTS 2

US EPA HOUSTON BRANCH

SAMPLE #: SOURCE: TYPE:	AQ TCLP	L SERVICE ATIVE	DATE RECEIVED: DATE	21-Nov-96
ANALYSTS:	RC, LC, BS		REPORTED:	19-Dec-96
		DETECTION		
PARAMETER	CONCENTRATION	LIMIT <=		UNITS
ADCENTO	0.004			
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

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PAGE 3 OF 3 ATTACHMENTS 2

US EPA HOUSTON BRANCH

SAMPLE #: SOURCE:	7GBXER01-17 NEW MEXICO OIL SERVICE COMPANY INITIATIVE		DATE RECEIVED:	21 - Nov-96
TYPE:	AQ TCLP		DATE	
ANALYSTS:	RC, LC, BS		REPORTED:	19-Dec-96
	······································			<u></u>
		DETECTION		
PARAMETER	CONCENTRATION	LIMIT <=		UNITS
		<u></u>	<u></u>	
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

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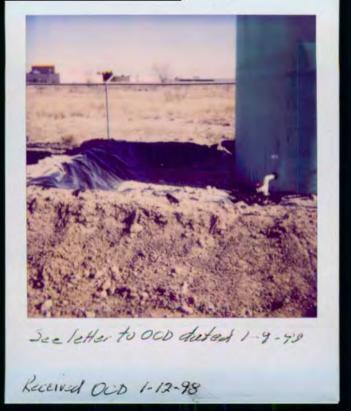
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APPENDIX E

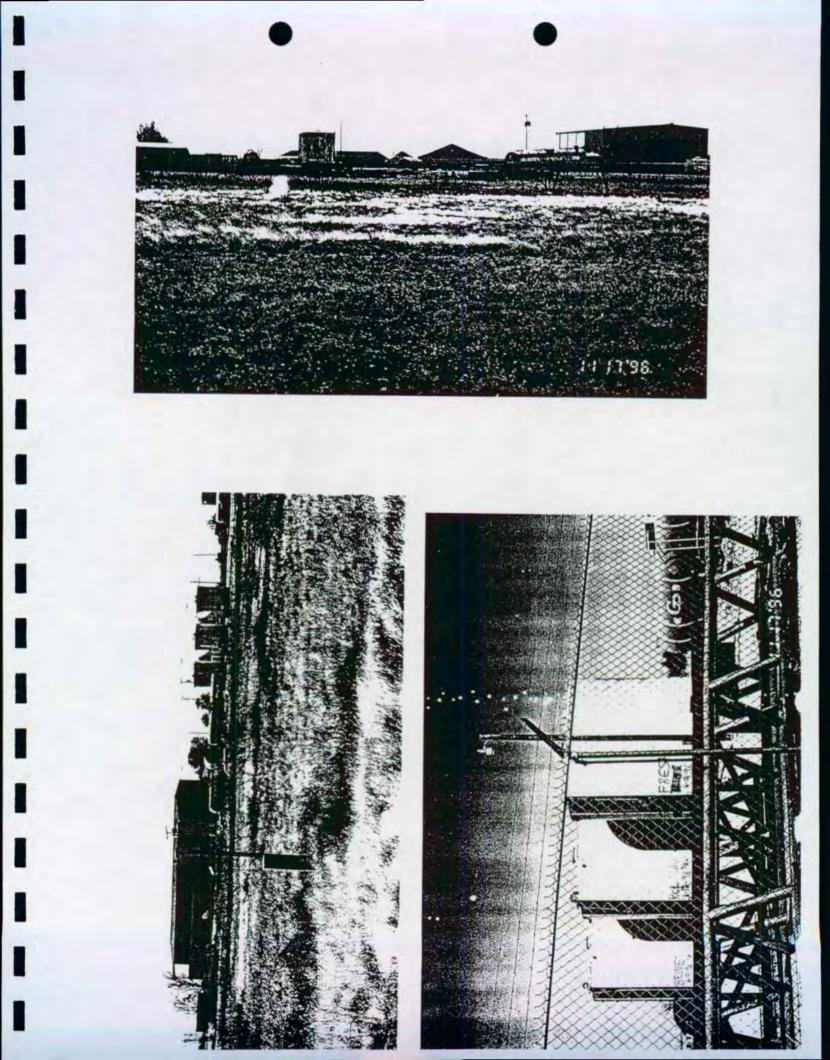
Photograph Documentation

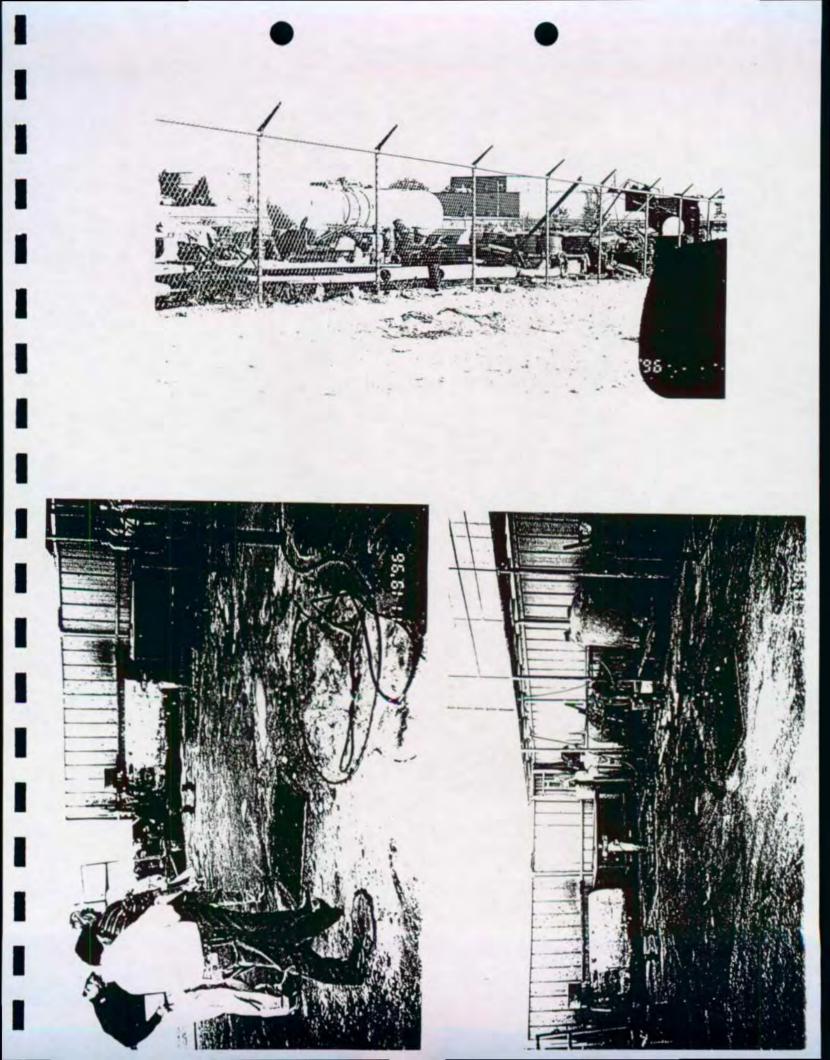
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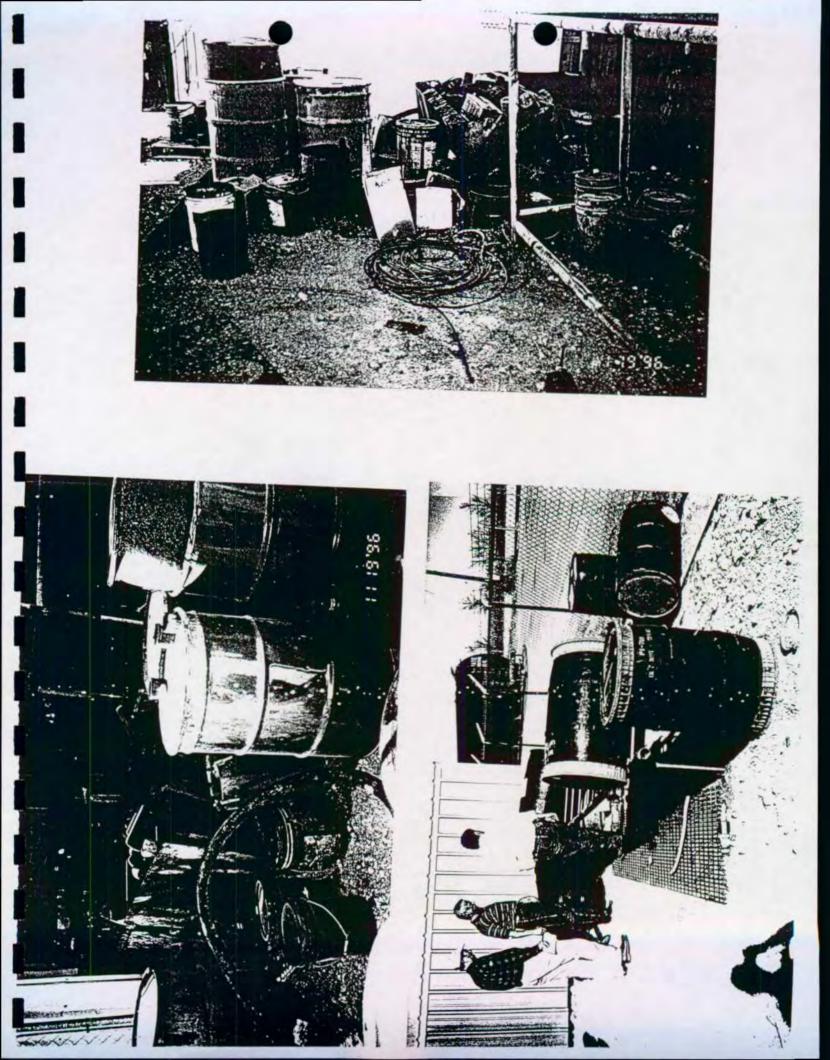
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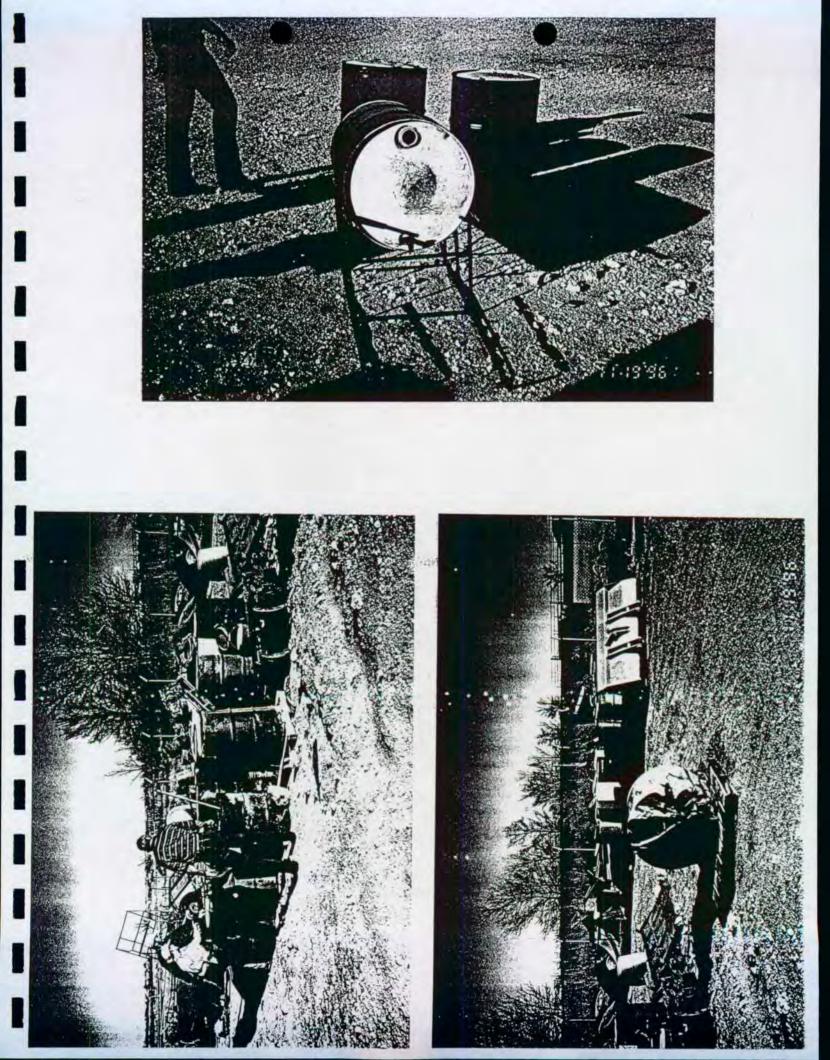


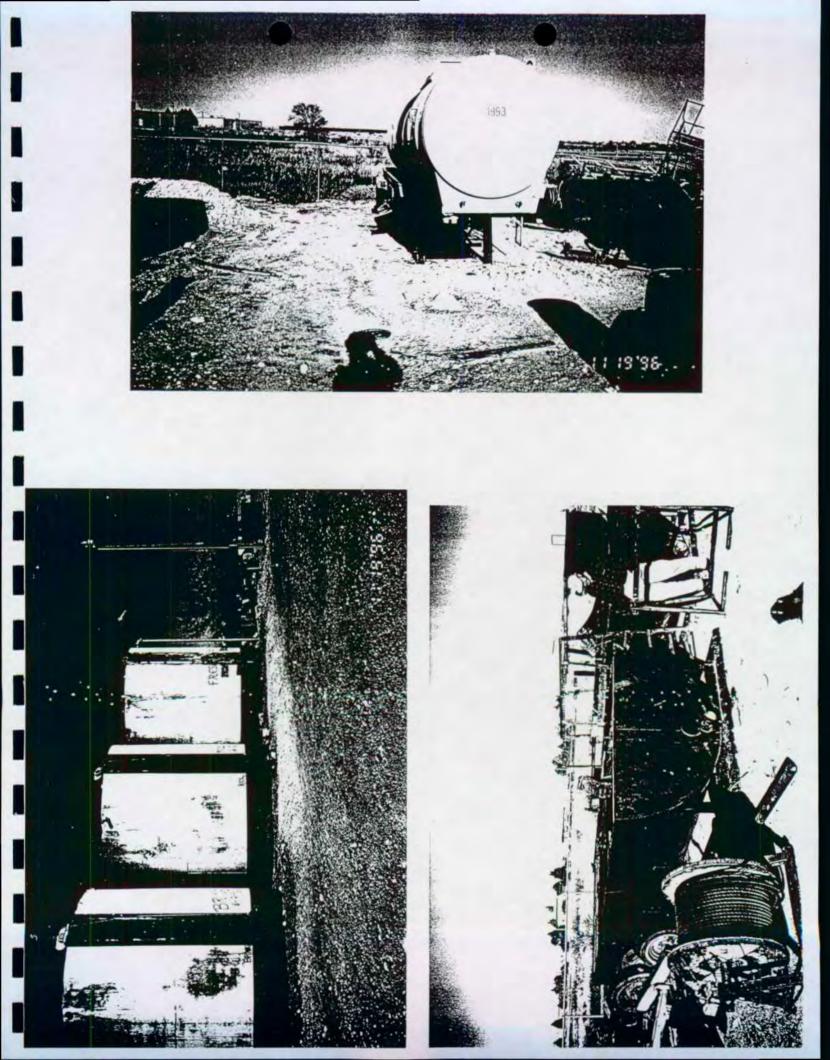


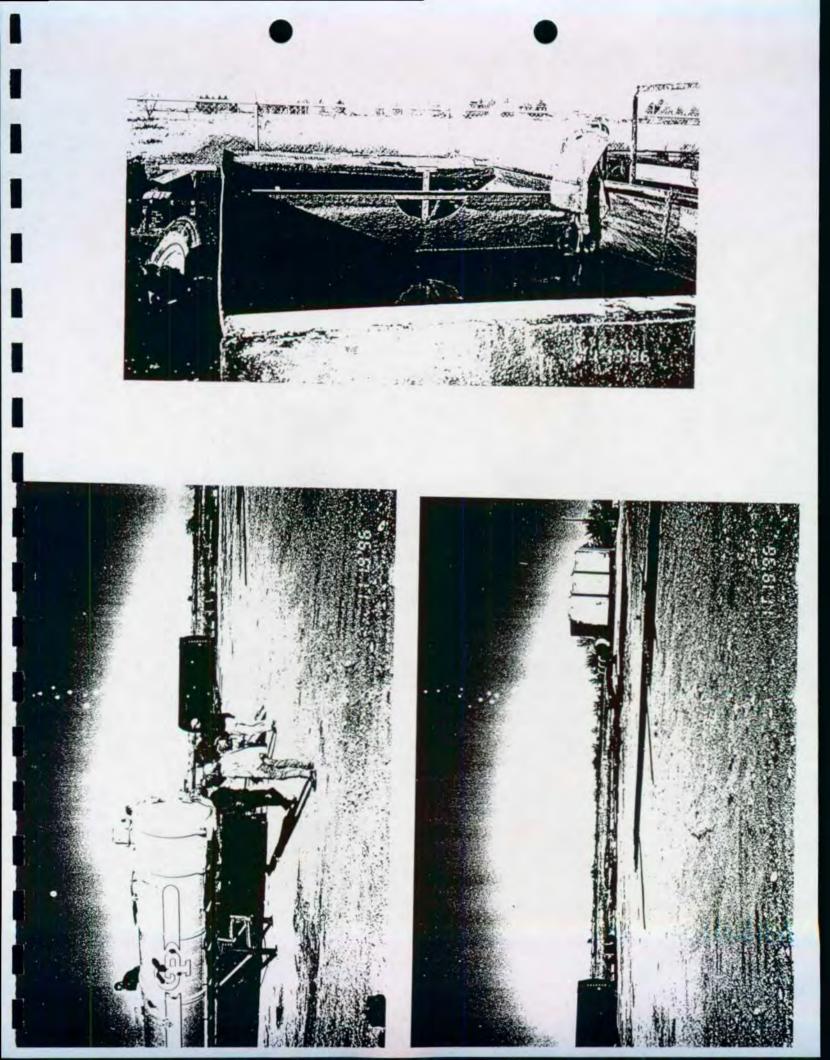


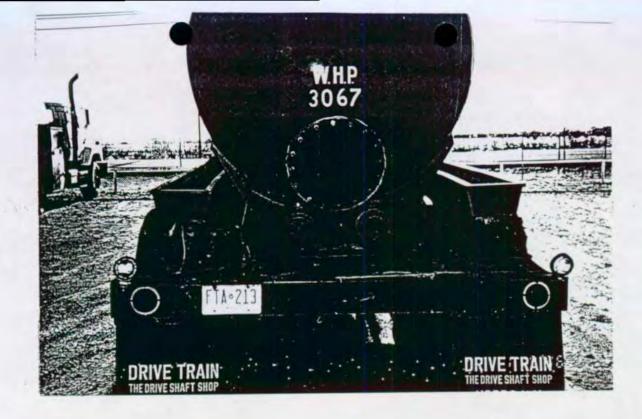


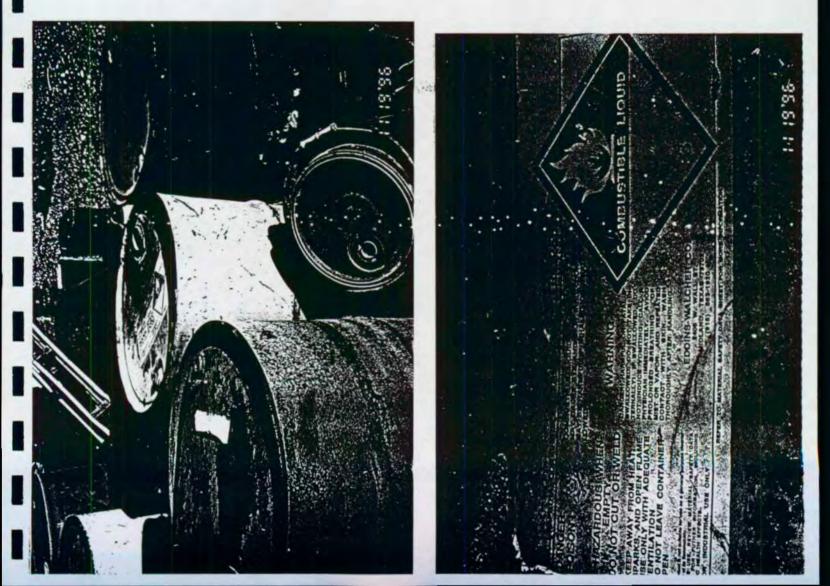


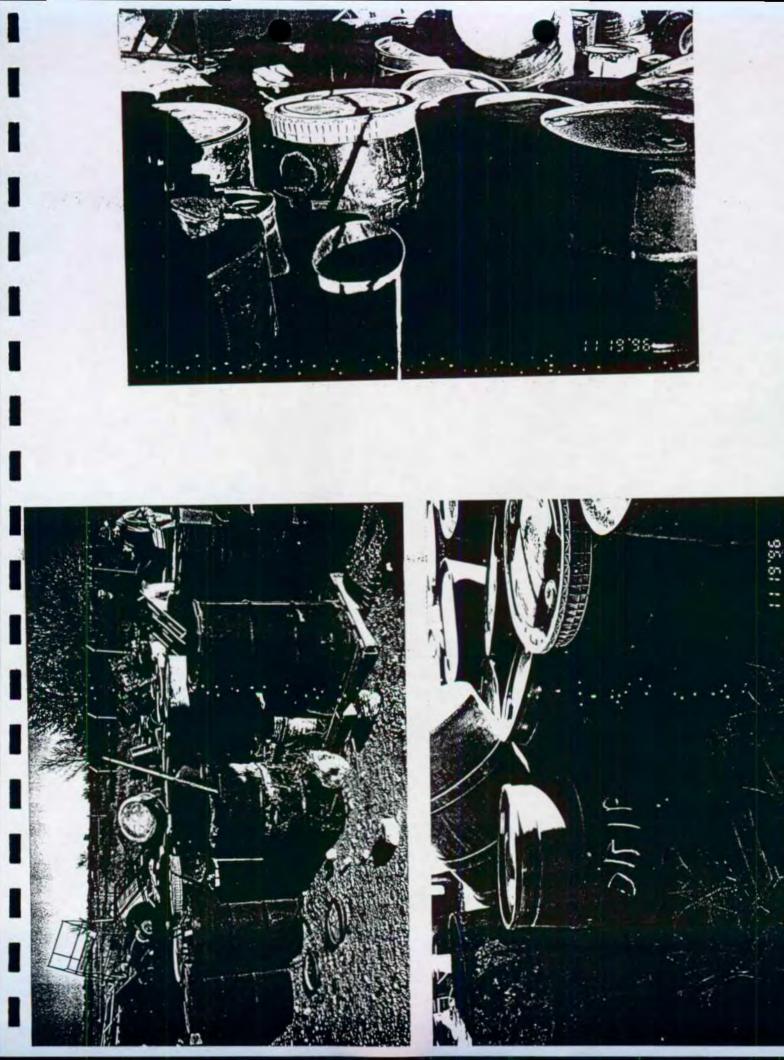


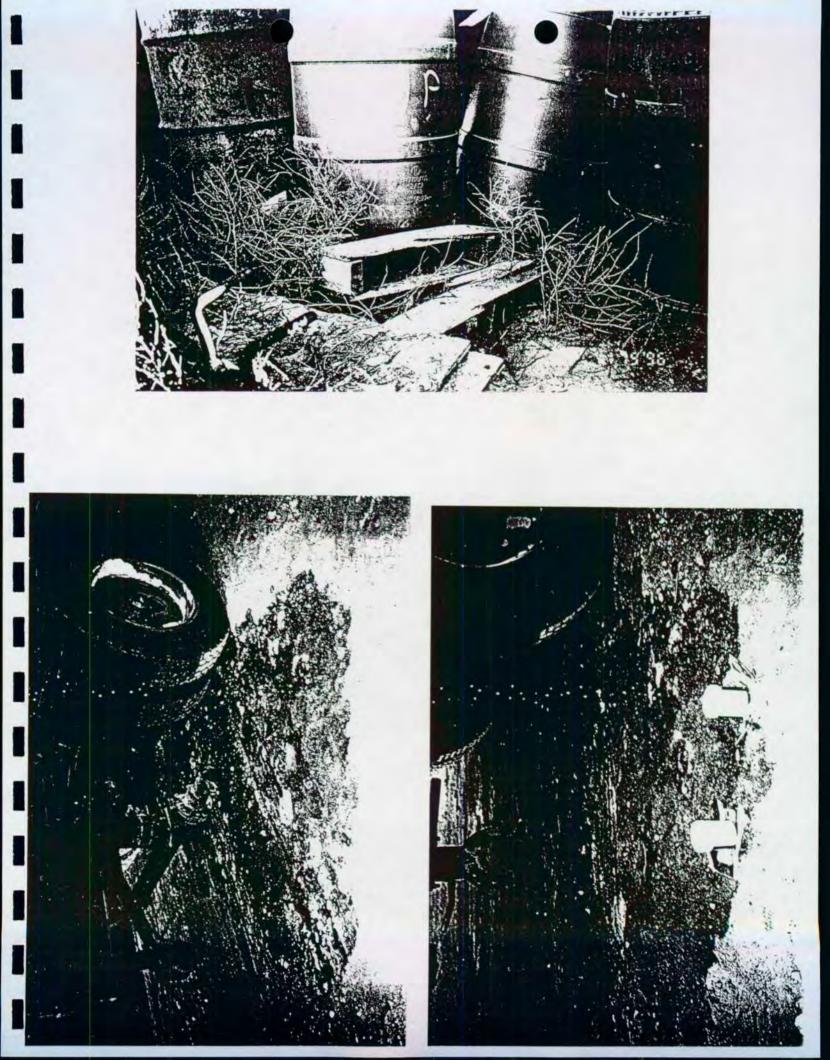


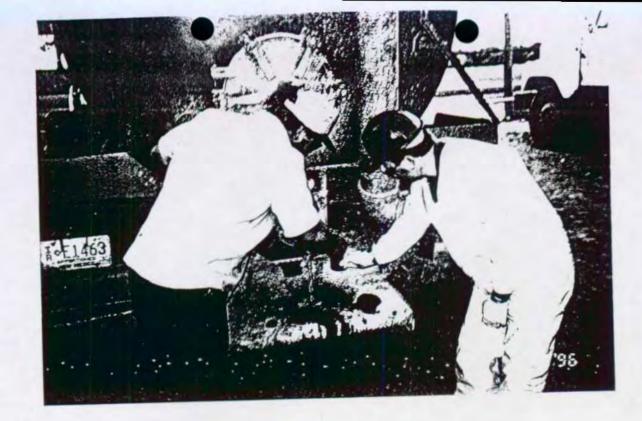


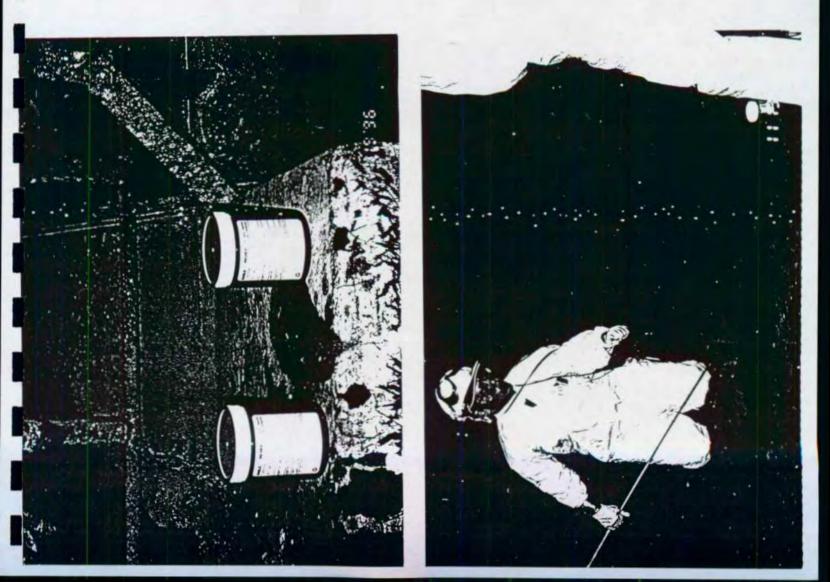




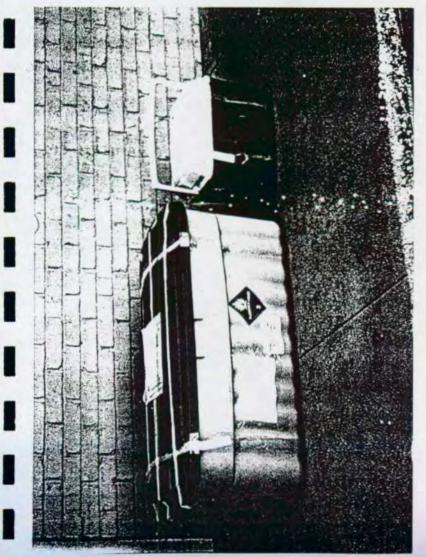












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Safety & Environmental Solutions, Inc.

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 tofully 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 Necairo

Kevin Necaise 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 R_1P_{22} and R_1P_{23}). 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 R_1P_{24} and R_1P_{25}).

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 R_2P_1). 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 R_2P_3).



TABLE 2Sample Analytical Results

Sample ID Number/ Laboratory ID Number	Analysis	Compound	Reg Limit*	Concentration/ Results
LS-01-WL-01	Ignitability	Ignitability	Postive	Negative
7GDXER01-08	РН	Corrosivity	≤2 or ≥12.5	7.0
LS-02-WL-01 7GDXER01-09	Ignitability	Ignitability	Positive	Negative
	РН	Corrosivity	≤2 or ≥12.5	6.8
LS-03-WL-01	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
7GDXER01-13		barium	100.0 mg/l	.120 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-01-FB-01	TCLP Metals	arsenic	5.0 mg/l	NA
7GDXER01-17		barium	100.0 mg/l	.060 mg/l
	Ignitability	Ignitability	Positive	Negative
LS-03-WL-02	TCLP Metals	arsenic	5.0 mg/l	.004 mg/l
7GDXER01-14		barium	100.0 mg/l	.140 mg/l
* D . 1 . 1	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

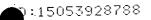
Dear Mr. Sanchez:

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 87505 (505) 827-7131

Recer 827-1152

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) Fruck, 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,

c:

Patricio W. Sanchez Petroleum Engineering Specialist Environmental Bureau - OCD

OCD Hobbs District Office

Insure segregation, procedures in place.

Request regulatory determination by Roger, per Pat. 7/3/97



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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Time 9:21Mm Date 12-11-96 Telephone Personal Originating Party Other Parties Neraise Port Mr. Kevin W/Lucky Sanch12 - UCI Services. Subject Habbs yard. Services MEKY Discussion Discharge ceased the dy Wayne price vent facility on Dictober 10, 1996 the. above ground line aven Kovin at Said Stanned the direction aF whyne, KIN/3n within Said that the next day excavated the 50 they contaminated Sør 1 70 facilit and within the plastic. DIALLO 00 Sure if his Not company has recioud Conclusions or Agreements wayne from 1946. Mr. Necaise Know tha a discharge plan let menut letter would comin R (UCD) they had antr anestion Ca Distribution File, Wayne Price. Signed

STATE OF NEW MEXICO OIL CONSERVATION

MEMORANDUM OF MEETING OR CONVERSATION

Time 8:07AM Date 12-11-96 Telephone ___ Personal Originating Party Other Parties Pat Sanchez - UCD Wayne Prile - OLD Subject Lucky Well Service. (Hobbs) Discussion If the discharge had crosed-(M) Asked Sure. (Lucky Has not officially Wayne not writting that the discharge has crase in wayne Remedia rechved 1 Hobb Dro Desa Santa Fe. Nayne, First went out to Lucky on Ocx. 3.1996. the Facility on Oct. 10, 1996. Wayne inspected Inspection report on December 5, 1996. phine no. 392-*Kevin Necaise -1547. m Conclusions or Agreements OCD Santa Fe discharge to Plan requirement letter. Know that I am going Le# t_{o} Nayne w/Lucky. phone Necaise Distribution File, wayne Price Signed

STATE OF NEW MEXICO



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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

December 5, 1996

POST DFFICE 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: <u>Discharge of fuel terminal sump effluent water.</u>

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.

Page 1 of three

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.

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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.

Page 2 of three

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

Sincerely yours,

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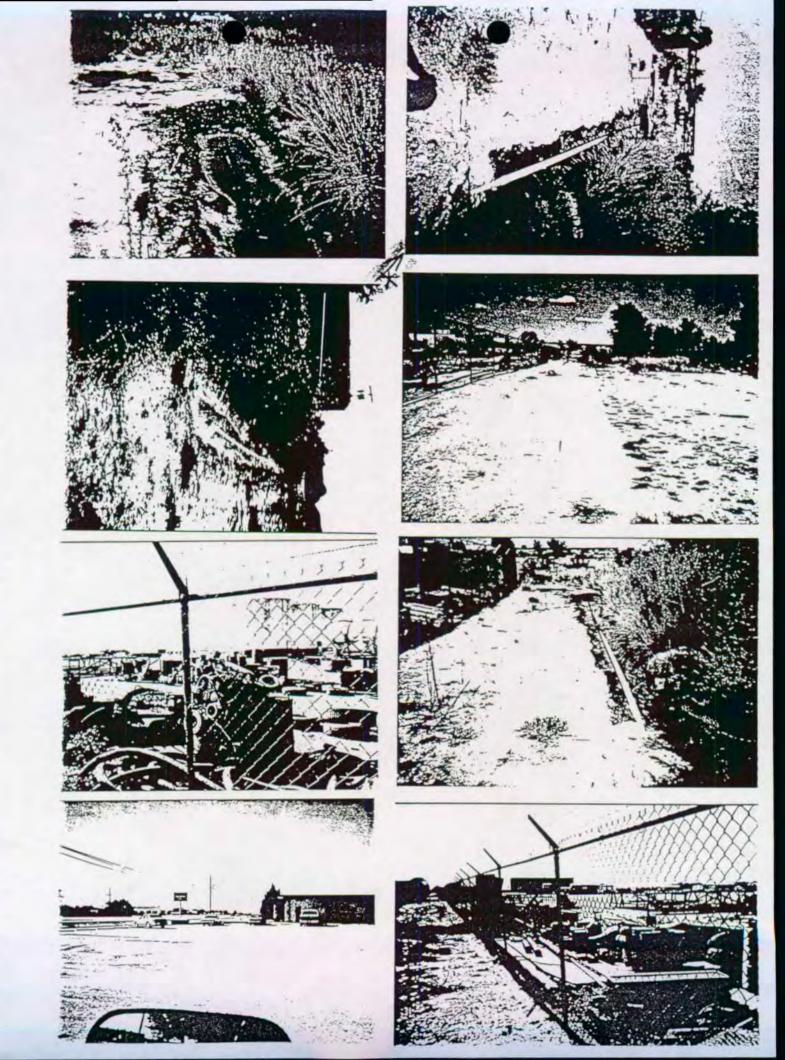
Warme Price

Wayne Price-Environmental Engineer

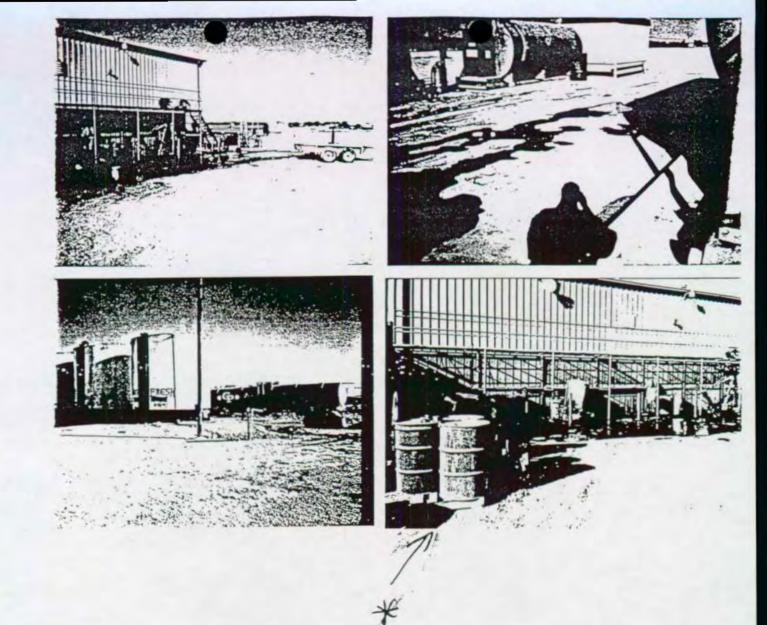
cc: Jerry Sexton-NMOCD District I Supervisor Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa Fe

attachments- 1-sketch copies of pictures

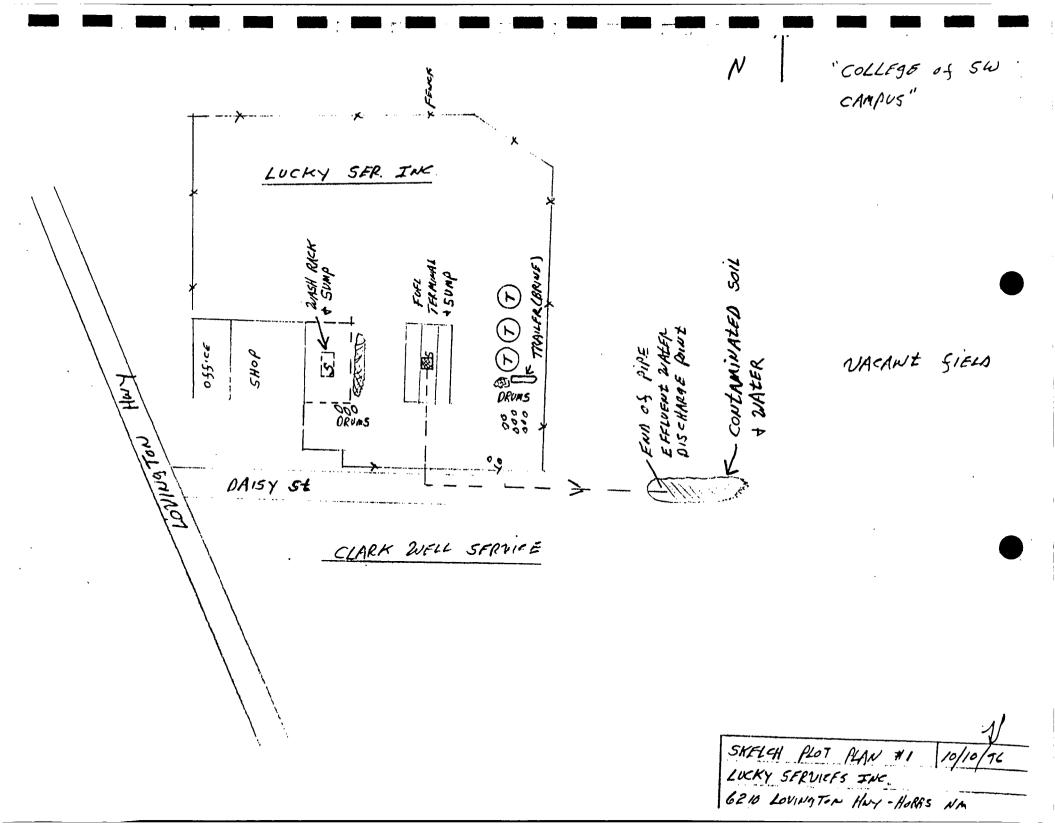
Page 3 of three



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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

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PAY Fifty dollars and 00/100

TO THE NMED ORDER Water Quality Management Fund OF

5-14-97 \$50.00

AMOUNT

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DATE

Appendix D

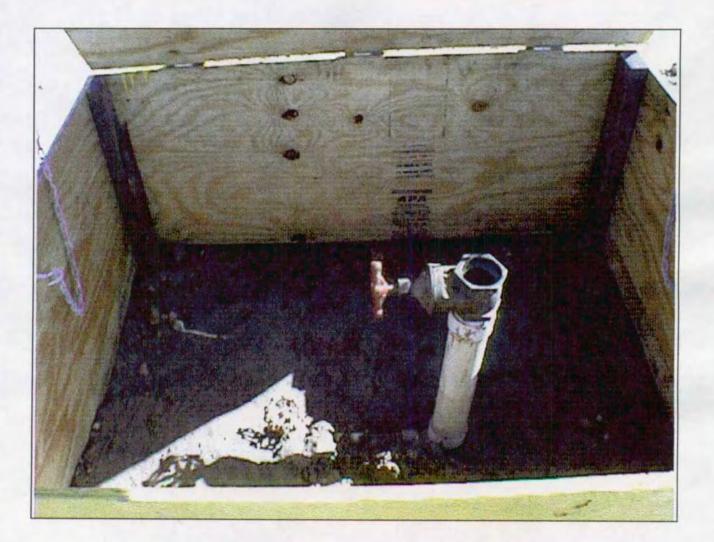
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Fuel Tank Secondary Containment New Valve Installation Box

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New Valve Installation - POTW/Cleanout



Wash Bay - Secondary Containment Berm

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Holding Tank for POTW Effluent

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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,

Roger C. Anderson Bureau Chief Environmental Bureau - OCD

RCA/pws

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

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US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse)

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Safety & Environmental Solutions, Inc.

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

ALC - 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 tofully 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 Necais

Kevin Necaise 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 R_1P_{22} and R_1P_{23}). 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 R_1P_{24} and R_1P_{25}).

<u>The third sample, LS-03-WL-01, was collected from the sump.</u> 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 R_2P_1). 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 R_2P_3).

TABLE 2Sample Analytical Results

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

1:

FACSIMILE COVER SHEET

To: Pat Sanchez

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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

31

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Sincerely,

Kevin Vlecais

Kevin Necaise Lucky Services, Inc.

cc: Wayne Price

Safety & Environmental Solutions, Inc.

703 E. Clinton Hobbs, New Mexico 88240 (505)397-0510

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,如此,如此是一个人们的,我们就是我们的是我们的,你不是我们的,你就是我们的。""我们的,你是我们是你的,你们就是我们的,你们们的,你们们的?""你们,你们就是你 我们们的我们就是我们就是我们就是我们的是我们的,我们就是我们的,你就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的。""你们,你们就是我 คด

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7GDXER01-14		barium	100.0 mg/l	.140 mg/l
	Ignitability	Ignitability	Positive	Negative



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

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. P-326-936-622</u>

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

	EP 326 9	16	F5ą	
	US Postal Service Receipt for Cer No Insurance Coverage Do not use for Internatio Sent to Lucky Servi	Prov nal N	ridęd. Aail <i>(See reverse)</i>	75
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PS Form 3800, April 1995	Postmark or Date			

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Environmental Bureau Oil Conservation Division

NOTICE OF PUBLICATION

MAY 2 0 19

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.

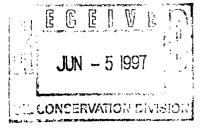
NO EFFECT FINDING	OIL CONSERVATION DIVISION
The described action will have no effect on listed so wetlands, or other important wildlife resources.	Dilliam J De May /
Date MIL 9, 1977 Consultor SEAL W 970 CD 1	WILLIAM J. LEMAY, Director
Approved y <u>ANNAGEORON APE</u> U.S. A.S.H and AVILD/IFE SER ICE	WJL/pws
NEW MEXICO ECOLOGICAL BERVICES FIELD OFFICE ALBIJOTEROLIE XIEW ALEVICO	

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:



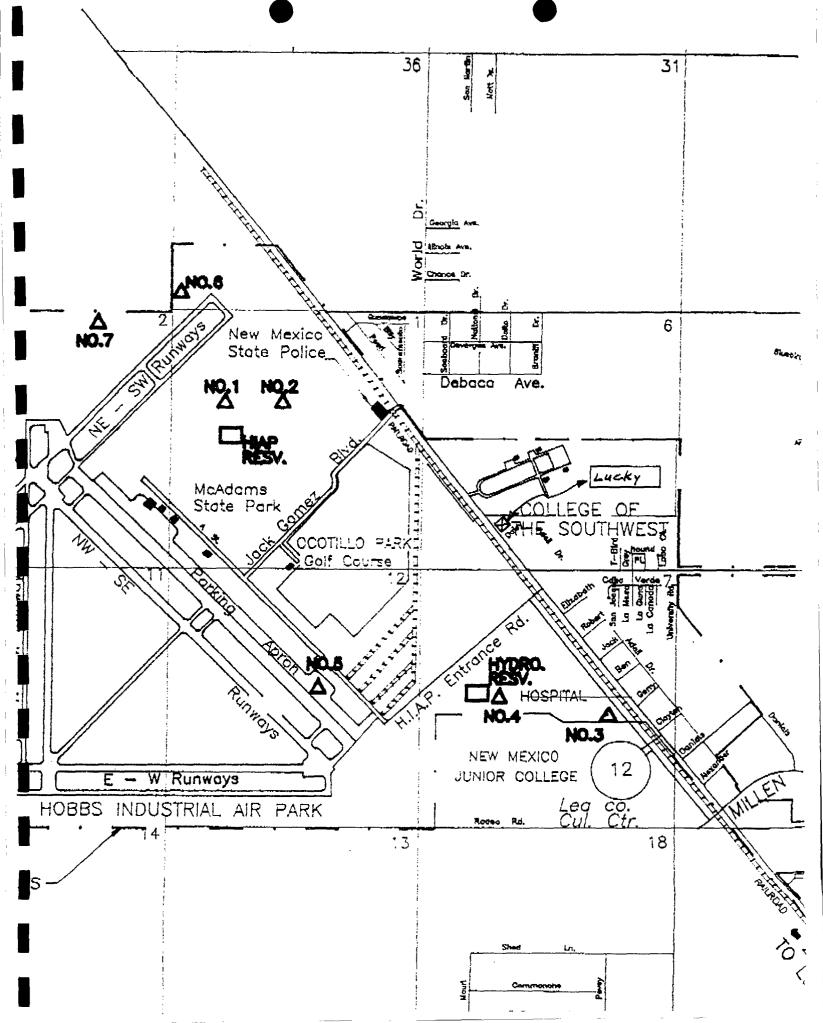
Regarding our conversation of a few days ago concerning the discharge plan recently filed in your office for Lucky Services, Inc., please find enclosed the data given to me by Mr. Charles Rothwell of the city of Hobbs. This data reflects the water quality of the area as tested by the city of Hobbs. Please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

FAX NO. <u>15053379370</u>



NAV-19-97 MON BIDE PN OF HOEBS UTILITIES

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71-43-2	Benzene				U i	0.50	5
108-86-1	Bromobenzene					0.50	1330
74-97-5 75-27-4	Bromochloromethane*					0.50	80
75-25-2	Bromoform*				Ū	0.50	80
24-83-9	Bromomethane			······································	TU I	0.50	
78-93-3	2-Butanone (MEK)				U	5.00	
104-51-8 135-98-8	n-Butylbenzene sec-Butylbenzene				U U	0.30	1922
98-06-8	tert-Butylbenzene					0.50	100000
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)			·····		0.50	100
75-00-3 67-66-3	Chloroethane					0.50	80
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106-43-4	4-Chlorotoluene				U	0.50	<u> <u> </u></u>
96-12-8 124-48-1	1,2-Dibromo-3-chloropropane (DBCP)		i		<u>บ</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	100 State
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					U I		
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PAX NO, 2053979370

75-35-4	1,1-Dichloroethene	1	U	0.50	7
156-59-2	cis-1,2-Dichloroethene	1	U	0.50	70
156-60-5	trans-1,2-Dichloroethene	1	υ	0.50	1 100
78-87-5	1,2-Dichloropropane		U	0.50	5
142-28-9	1,3-Dichloropropane	1	U	0.50	
590-20-7	2.2-Dichloropropane		U	0.50	1. 105
563-58-6	1,1-Dichloropropene	1	Ų	0.50	
1006-01-5	cls-1,3-Dichloropropene	1	Ų	0.50	367
1006-02-6	trans-1,3-Dichloropropene		U	0.50	
100-41-4	Ethylbenzane		U	0,50	700
87-68-3	Hexachlorobutadiene		Ų	0.50	Constant of the
98-82-8	Isopropylbenzene		U	0.50	100 m
99-87-6	4-lsopropyitoluene		Ų	0.50	X 2
75-09-2	Methylene chloride (Dichloromethane)	!	U	0.50	5
91-20-3	Naphthalene		U	0.50	10 C
103-85-1	Propylbenzene		U	0.50	
100-42-5	Styrene	1	V	0.50	1 100
630-20-6	1,1,1,2-Tetrachloroethane		U	0.50	1 1 2
79-34-5	1,1,2,2-Tetrachloroethane		U I	0.50	10 67 20 V
127-18-4	Tetrachloroethene		U	0.50	5
109-99-9	Tetrahydrofuran (THF)		UI	5.00	1. A
108-88-3	Toluene		บ	0.50	1000
87-61-5	1,2,3-Trichlorobenzene		U	0.50	
120-82-1	1,2,4-Trichlorobenzene	1	U	0.50	70
71-55-8	1,1,1-Trichloroethane	}	Ui	0.30	200
79-00-5	1,1,2-Trichloroethane		V	0.50	5
79-01-6	Trichloroethene	!	U	0.50	5
75-69-4	Trichlorofluoromethane		U	0.50	1000 A
96-18-4	1,2,3-Trichloropropane		U j	0.50	5°%
95-63-6	1,2,4-Trimethylbenzene		U	0.50	8

96-18-4	1,2,3-Trichloropropane		1 1 1	0.50	1
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108-57-8	1,3,5-Trimethylbenzene	1	U	0.50	101 m
75-01-4	Vinyl chloride		U I	0.50	2
95-47-6	o-Xylene"	1	IU	0.50	4
N/A	p-& m-Xylene"		U	0.50	·**
N/A	Total of Xylenes above	0.0	i U I	0.50	10000
N/A	*Total of Trihalomethanes above*	0.0	101	0.50	100

	LABORATORY BATCH C	UALITY CONTROL SU	JMMARY	فالمتريدين بإكارة التنبكي يسب	
SURROGATE	SURROGATE COMPOUNDS	1	CONCE	NTRATION 1	% RECOVERY
RECOVERIES:	2-Bromechlorebenzene (Photolonization Detect	dr Surrogate)		10.28	102.8%
	2-Bromochiorobenzene (Electrolytic Conductivit	y Detector Surroçaie)		9.69	96.9%
ABORATORY	The % recoveries for compounds in th	ne batch spike wer	e from 8	10% to 120%	with the
FORTIFIED	exception of the compounds list				
BLANK	COMPOUND	CONCENTRATIO	N.(µg/L)	% RECOVERY	(
RECOVERIES	Bromoform	10		122	
	Dibromochlorometh			121	
ABORATORY	No target compounds were detected a	bove the sample d	etection	limit in labor	atory blank
BLANKS	with the ecception of the compo	ound(s) listed below	v :		
	COMPOUND	CON	CENTRAT	ION (uc/L)	
	No Exceptions				

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 quanitation can be given (~5 * SDL) U No analyte was detected above the Sample Detection Limit. MCL Maximum Contamination Level Allowed by EPA for SDWA regulated analytes Sample Detection Limit - The lowest concentration which can be differentiated from Zero with SOL
- 99% confidence taking sample size (compositing) into account.
- Concentration Units micrograms per liter which is approximately equivalent to Parts Per Billion (ppb) ug/L

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MAY-19-97 MON 3:01 FM CITY OF HOBBS UTILICIES FAX NO. 15053979370

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

P. 3

• MAY-19-97 MON 3:01 FM DITY_OF HEEBS UTILIZIES • FAX NO. 15053379570____

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WATER WELL TESTS (cont')

JUNE 1996

TEST RAN	WELL	3	RESU	LTS
NITRATE			2.7	mg.L
PHOSPHORUS			0.304	mg/L
pH			7.5	
TEMPERATURE			21.	_
TDS				mg/L
SULFATE			100.6	mg/L
SODIUM			50	mg/L

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.MAN-18-87 MON BOOT PM CITY IF HOBES UTILITIES FAX NO. 5053979370

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

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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

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WATER WELL TESTS (cont')

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JUNE 1996

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WELL 4

TEST RAN	RESULTS
NITRATE	3.2 mg.L
PHOSPHORUS	0.344 mg/L
рН	7.5
TEMPERATURE	22.4
TDS	480 mg/L
	480 mg/L 110.8 mg/L

MAY-19-97 MON 3:04 PM CITY OF HOBBS UTILITIES FAX NO. 15053979370

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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

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WATER WELL TESTS (cont')

JUNE 1996

WELL 5

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

MAY-19-97 MON 3:05 PM CITAGE HOBES UTILITIES FAX NO. 053379370

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ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge rec	eipt of check No dated 5-14-97.
	in the amount of \$
from Lucky Sucs	
for Halilis	Gw-282.
Submitted by:	Date:
Submitted to ASD by:	
Received in ASD by:	Date:
Filing Fee 📈 Ne	w Facility Renewal
Modification	
	1.07 Applicable FY 97
	ater Quality Management Fund.
Full Payment	or Annual Increment
	LEA COUNTY STATE BANK
LUCKY SERVICES, INC. PH. 505-392-1547 P.O. BOX 5790 HOBBS, NM 88241-5790	HOBBS, NEW MEXICO 88240 95-183-1122
PAY Fifty dollars and 00/100	

DATEAMOUNT5-14-97\$50.00

TO THE NMED ORDER Water Quality Management Fund OF

Affidavit of Publication

STATE OF NEW MEXICO

COUNTY OF LEA

1 85.)

being first duly sworn on eath Joyce Clemens đ deposes and says that he is Adv. Director 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

ang xarapadang

entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, duce NERTER EXERTING

CONSOLVER AND BEGINNING with the issue of **19**.97 May 23

and ending with the issue of May 23

And that the cost of publishing said notice is the

sum of \$. 45.60	
which sum has been (Paid) (Assessed) as Court C	2051.5
pure lemens	
Subscribed and sworn to before me this 23rd	l
10 0	
day of May	
Schn Henner	
Notary Public, Les County, New M	
My Commission Expires Sept. 28	98

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

Any potential discharge at

the facility will be stored in

may obtain further information from the Oil Conservation Division and may submit written commends 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 beheld. A hearing will be held if the Director determines there is significant public interest.

LEGAL NOTICE

NOTICE OF

PUBLICATION

STATE OF

NEW MEXICO

ENERGY, MINERALS

AND

NATURAL RESOURCES

DEPARTMENT

OIL CONSERVATION DIVISION

Notice is hereby given

that pursuant to New

Mexico Water Quality

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)

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,

Commission

Lucky

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Control

827-7131:

(GW-282)

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

May Put 5 247 Lea County, New Mexico.

New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 16th day of May, 1997. STATE OF NEW MEXICO

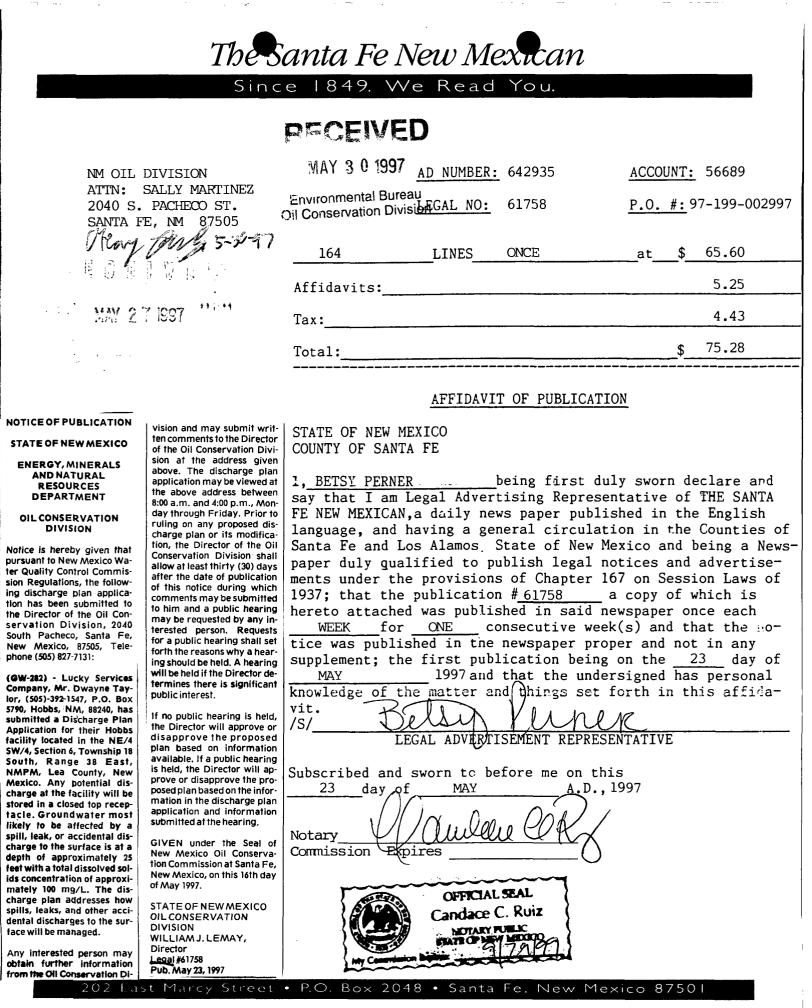
OIL CONSERVATION DIVISION WILLIAM J. LEMAY, Director

SEAL

Published in the Lovington Daily Leader May 23, 1997.

> RECEIVE MAY 3 0 1997

Environmental Bureau Oil Conservation Division



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, Director

WJL/pws

SEAL

811 S. First Artesta, NM 84 District III - (1000 Rio Braz Aztec, NM 87-	Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street 505) 334-6178 os Road Revised 12 Plus i C. Copy to appropri-
	X New Renewal Modification
. 1.	Type:Oilfield Service Company
2.	Operator: Lucky Services, Inc.
	Address: P.O. Box 5790 Hobbs, NM 88240
	Contact Person: Kevin Necaise Phone: (505) 392-1547
3.	Location: <u>NE</u> /4 <u>SW</u> /4 Section <u>6</u> Township <u>18S</u> Range <u>38E</u> 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 herby certify that the information submitted with this applic Le and correct to the best of my knowledge and belief.
	NAME: <u>Dwayne Taylor</u> Title: <u>President</u>
	Signature: <u>Allaune Taylon</u> Date: <u>05-12-97</u>

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

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AMOUNT

\$50.00



OLD FILE COPY.

PECEIVED

MAY 1 6 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:

GN Depth =25' TDS = 100 mg/L Phigs 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. <u>Type of Operation</u>

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 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, 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 I or Used at the Ho Lucky Services, Inc		
Material Stored	General Composition	Solid or Liquid	Container Type	Volume Stored
1. Drilling Flui				
N/A				
Category 2. Brin	es.(KCL, NaCl, etc	.)		
KCL	Potassium Chloride and Water	Liquid	AST	< 500 bbls.
10 lb. Brine	Sodium Chloride and Water	Liquid	AST	< 500 bbls.
Catergory 3. Aci	ds/Caustic			
N/A				
Category 4. Dete	rgents/Soaps			
Rig Wash (Biodegradable)	Non-Ionic Surfactant	Powder	32 gallon cardboard drum	< 200 lbs.
Category 5. Solv	vents and Degrease	ers		
Parts Washing Solvent	Light Petroleum Distillates (Naptha)	Liquid	30 gallon parts- washing drum	< 30 gallons
Category 6. Par	affin Treatment/E	mulsion Breakers		
N/A			[
Category 7. Bio	cides			
N/A				
Category 8. Oth	ers			
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*
	allon drums of these ded for immediate u		according to job neer	ds. No more is

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	Ζ
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 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

	ategory per NMOCD L	vischarge I fan Guluen	
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. <u>Description of Current Liquid and Solid Waste Collection/Storage/Disposal</u> <u>Procedures</u>

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. <u>Proposed Modifications</u>

- 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.

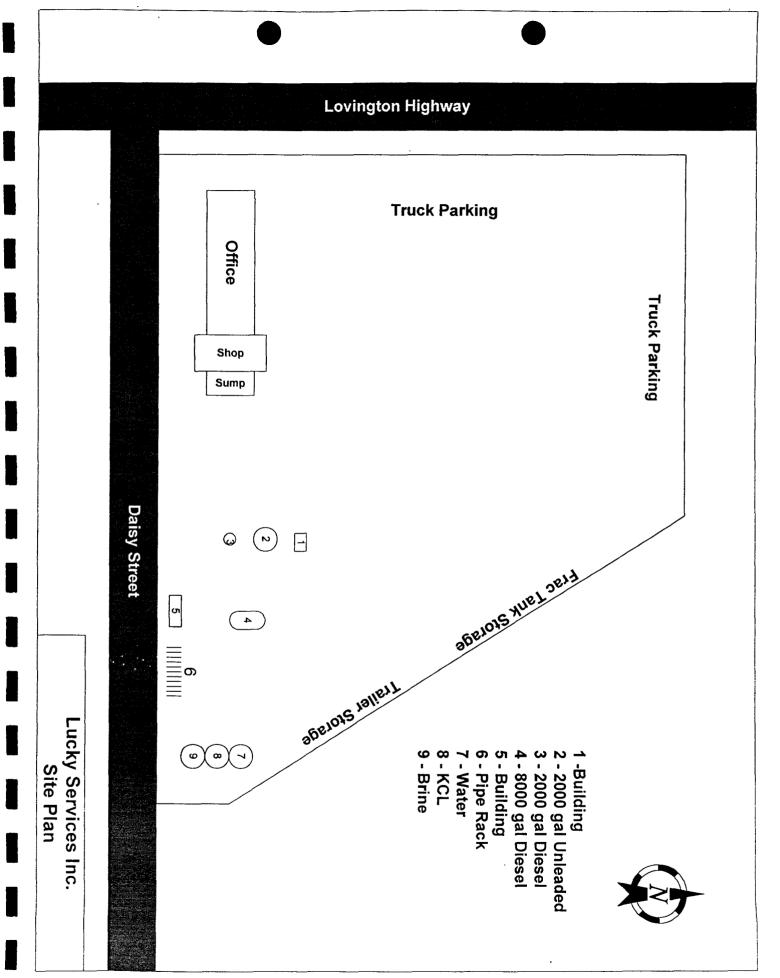
XII. <u>Site Characteristics</u>

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

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

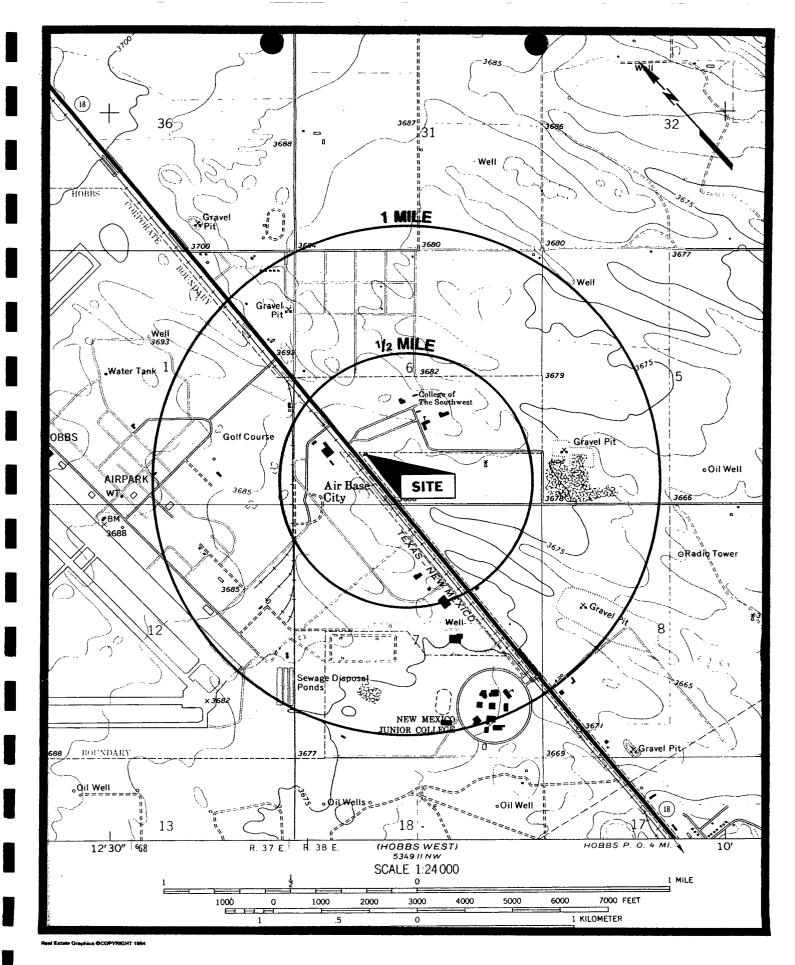


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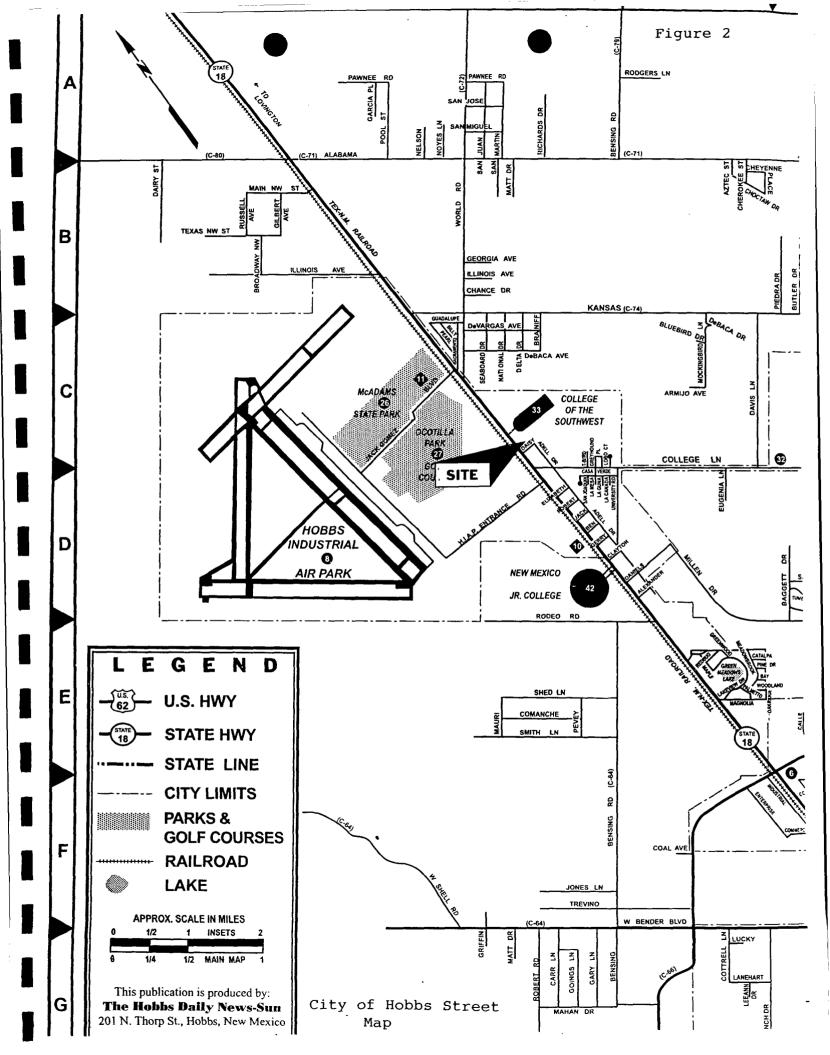
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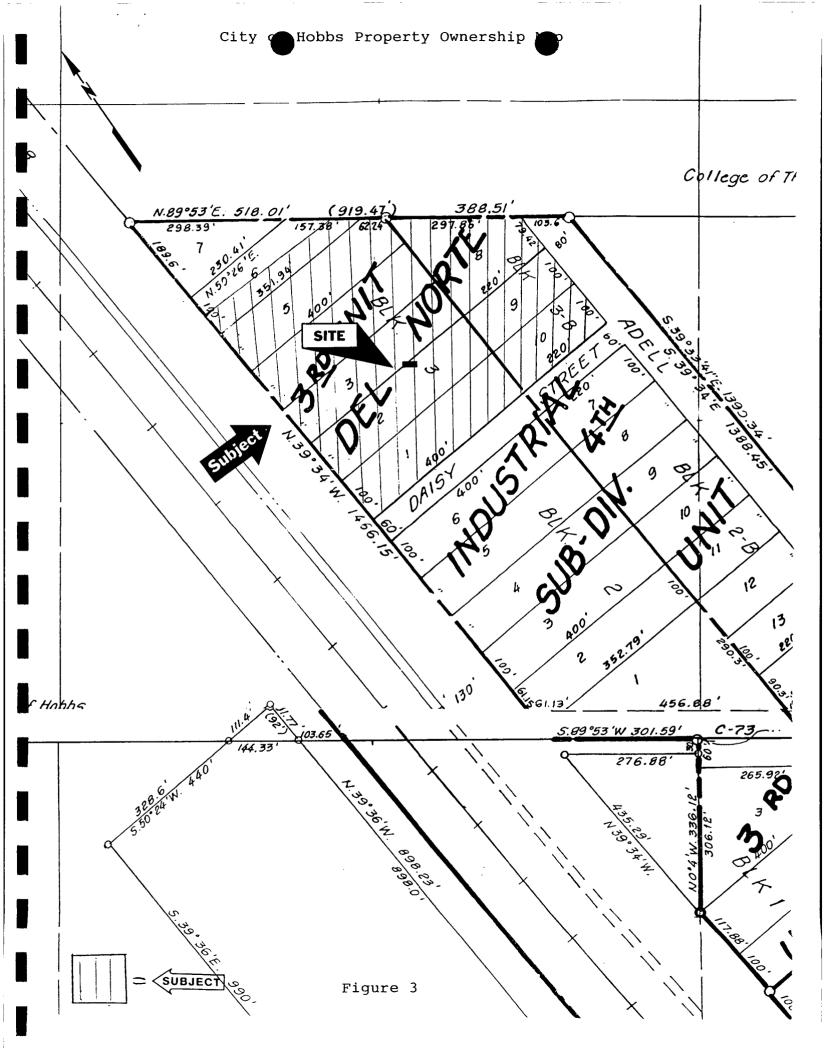
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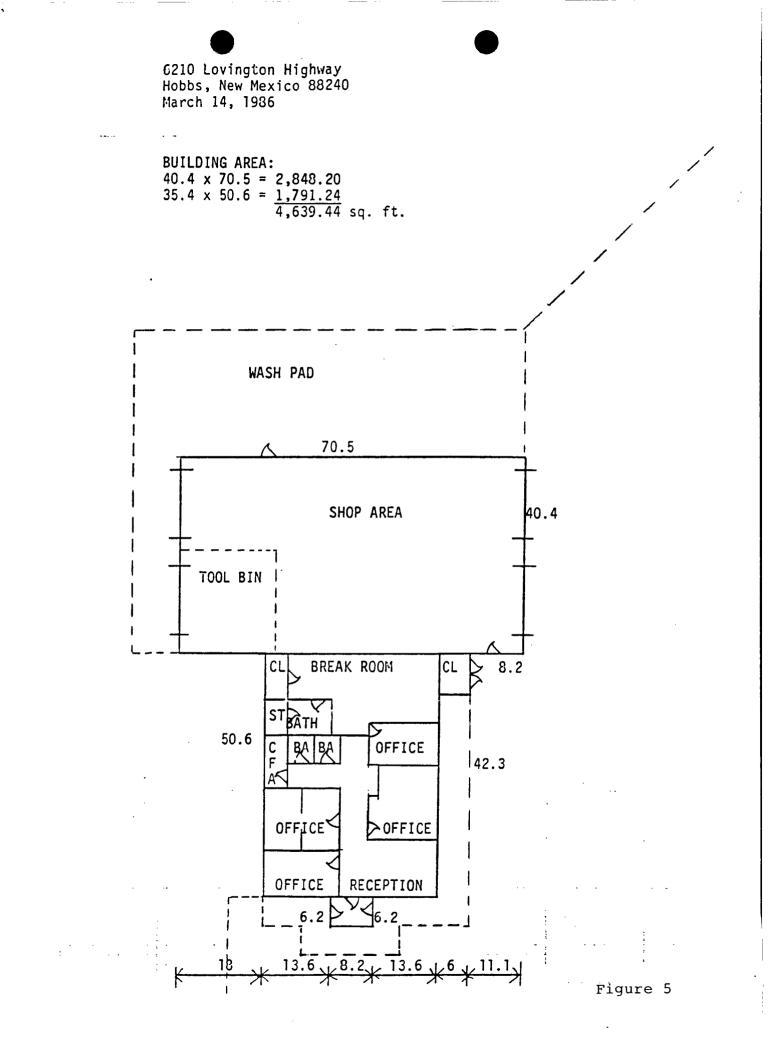


USGS Topographic Map

Figure 1







Appendix B

			ST	ATE ENGI	NEER OFFIC	£					
				WELL F	RECORD			1	FIELD	; ;	· · · ·
			Section	1. GENER	AL INFORMA	TION				··· · ·	•••• :.
() Ownerd	of well Hey	<u>Nerico</u>	Bent &	<u>urpe t</u>			0	wner's W	ell No		
Street of City and	r Post Office A State 1101)	ddress x • C DC • DCU	Hexico	<u>GC24(</u>	0						
ell was drille	d under Permi	t No	115		and is lo	ocated is	n the:				
a	<u></u>	<u>4 PE 4</u> .	¼ of S	ection	7 Town:	hip	165	Range	30	E	_N.M.P
b. Tract	: No	of Map N	10		of the						. <u>.</u>
c Loth	1-4	of Block No	. 5		of the 1 = 1					- 1	<u>1:10</u>
Subd	ivision, recorde	ed in	<u> (7</u>		County.						
		feet, Y=		fee	et, N.M. Coord	inate Sy	stem				
	Contractor	1.1	rethars	۶.							
	Contractor										
											1
• -	11/5/										
evation of la	ind surface or -				t well is		ft. Total de	pth of we	"u]	141	
ompleted we	ll is 🖾 s	ihallow 🗖	artesian.		Depth to	water uj	pon complet	ion of we	ell <u>4</u>	9	
		<u>S</u>	ection 2. PRI	NCIPAL WA	ATER-BEARIN	ig str	ATA				_
Depth From	in Feet To	Thickne in Feel		Description	n of Water-Bea	ring For	mation	6	Estima gallons p	ted Yie per min	
	141	1	1.	no: n - Se	mő				100		
70	<u></u>	1		· • · · · · · · · · · · · · · · · · · ·							
	<u> </u>			<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
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	L	1									<u></u>
	Pounds	Threads		in Feet	RD OF CASIN				Pe	erforatio	опѕ
Diameter		per in.	Тор	Bottom	n (feet)	<u> </u>	Type of S		From	n	To
Diameter (inches)	per foot	+	100							,	1:1
	per foot	8	<u> </u>	1/1	143	<u> </u>	Tope		74	<u> </u>	
		8	·····	1/1			<u>i one</u>		74	r	_
		8	·····	141			1000		74	r	
(inches)	22		<u> </u>		143				74		
	22		<u> </u>				ITING	thod of P			
(inches) 7 Depth	22 in Feet	Sect	C tion 4. RECO		DDING AND Cubic Feet	CEMEN	ITING Me		Placemen	nt	
(inches) 7 Depth	22 in Feet	Sect	C tion 4. RECO		DDING AND Cubic Feet	CEMEN	ITING		Placemen	nt	;9
(inches) 7 Depth	22 in Feet	Sect	C tion 4. RECO		DDING AND Cubic Feet	CEMEN	ITING Me		Placemen	nt	;0
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(inches) 7 Depth	22 in Feet	Sect	C tion 4. RECO Sacl of M	RD OF MU	DDING AND Cubic Feet	CEMEN	ITING Me		Placemen	nt	;3
(inches) 7 Depth From ging Contra	22 in Feet To	Sect Hole Diameter	C tion 4. RECO Sacl of M Sectio	RD OF MU	DDING AND Cubic Feet of Cement	CEMEN	ITING Mer Par D Sad	crou	Placemen	nt > (,	
(inches) 7 Depth From ging Contra ress ging Method	22 in Feet To ctor	Sect Hole Diameter	C tion 4. RECO Sacl of M Sectio	RD OF MU	DDING AND Cubic Feet of Cement	CEMEN C C D	ITING Me	crou	Placemen	nt	Feet
(inches) 7 Depth From ging Contra ress	22 in Feet To ctor	Sect Hole Diameter	C tion 4. RECO Sacl of M Sectio	RD OF MU	DDING AND Cubic Feet of Cement	CEMEN C: D	ITING Mer Per Dr bad Depth i	orou: in Feet	Placemen	nt Cubic	Feet
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(inches) 7 Depth From ging Contra ress ging Method e Well Plugge	22 in Feet To ctor	Sect Hole Diameter	C tion 4. RECO Sacl of M Sectio	RD OF MU ks ud n 5. PLUGC	DDING AND Cubic Feet of Cement	CEMEN C: D	ITING Mer Per Dr bad Depth i	orou: in Feet	Placemen	nt Cubic	Feet

°2

1

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	in Feet	Thickness	Color and Type of Material Encountered
From	To	in Feet	
0	30		9613 und Caliche
30	45		Hand Sand Rock
45	60		Su.el
60	82		Gray Cand
82	142		waber Climd
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1973 NOV 14 NM 8:25 STATE EX NO. NE ER OFFICE

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

Albott Bros. Driller Aclen Baker

should be executed in triplicate, preferably typewritten, and submitted t INSTRUCTIONS: This for of the State Engineer A tions, except Section 5, shall be answered as completely and accurate

 appropriate district office nossible when any well in

FLE) ENGR.	LOG
þrm	WR-23	





WELL RECORD

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

-	casing i l is shall	Ci W (1 St Ci D D D D n feet a ow or a	ity Vell was B) Drill creet and rilling v rilling v above se artesian	drilled un <u>drilled un</u> <u>ing Contr</u> d Number was comm vas comple a level	Hol nder Per A	nit No. 4 - 6 My of Section bhott Prot 2. 2. 22x 6 abbs	2 State <i>ie</i> <i>f</i> / <i>C</i> 8 and 2 Twp. <i>18</i> here Licen <i>S</i> State <i>Me</i> <i>Eebruary</i> 25 <i>Eebruary</i> 26 <i>Eebruary</i> 26	o Mexico is located in t Rge. 388. se No. 92-48 cu fexico 19.
top of er well epth in	casing i l is shall Feet	n feet a	Vell was B) Drill treet and ity rilling v rilling v above se artesian	drilled un drilled un bing Contr d Number was comm vas compl vas comple	nder Per actor	mit No. 4 . 6 4 of Section <u>bhott</u> Prot . 0. 203 B 7bbs	7 108 and 2 Twp. 182. here Licen 57 State Me February 29. Tebruary 24.	is located in t Rge. 356. se No. 12-48 cu fexte 2 19
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top of er well epth in	casing i l is shall Feet	n feet a	B) Drill treet and ity rilling v rilling v above se artesian	ling Contr d Number was comm vas compl vas compl	actor i ienced eted	<u>bhott Prot</u> . <u>7. 707</u> 8 92be	hereLicen \$2 State Me February 22, Tebruary 24,	se No. <u>19</u>
top of er well epth in	casing i l is shall Feet	n feet a	treet and ity rilling v rilling v above se artesian	d Number was comm vas comple a level	/ // enced eted	<u>,), 997 8</u> 9666	S7 State Me February 29, Tebruary 24,	<u>19</u>
top of er well epth in	casing i l is shall Feet	n feet a	ity rilling v rilling v above se artesian	was comm vas compl ea level	ienced eted	<u>7668</u>	State Me February 23 Tebruary 24,	<u>19</u>
top of er well epth in	casing i l is shall Feet	D D n feet a ow or a	rilling v rilling v above se artesian	was comm vas comple a level	enced eted	·	February 29, Tebruary 24,	
top of er well epth in	casing i l is shall Feet	D n feet a ow or a	rilling v above se artesian	vas complea a level	eted		Tebruary 24,	19 19
top of er well epth in	casing i l is shall Feet	n feet a ow or a	above se artesian	a level				19.07
top of er well epth in	casing i l is shall Feet	ow or a	artesian				with of mall	
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om		Thick	PRIN		1100	Depth to wa	ater upon complet	ion8Q
om		Thick		ICIPAL W	ATER-BEA	RING STRATA		
0		F	ness in eet		D	escription of Wate	er-Bearing Formation	
	70		0	wate	r sand			
5	120	2	5		r sand			
				[
				RECOR	D OF CA	SING		
ounds	Threa	ds	Dej		Feet	Type Shoe	Perfora	tions
ft.	in		Тор	·			From	То
20	A		0	120	120	Open	80	120
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	<u> </u>					<u> </u>		·····
			RECOR		DING AN	ID CEMENTING		
eet	J		Tons	1			Methods Used	
То	Hole in	in.	Clay	Cem	ent		metalous oseu	
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		I		1				
				PLUGG	ING REC	ORD		
ging (Contract	o r					License No	
ımber.					City		State	
used	<u>-</u>	To	ns of Ro	ughage u	sed	Ту	pe of roughage	
							-	
					No	Depth of Pl	ug	
	الر ورو المحمد المالي				_	From T	0 NO. 01 S	acks Used
USE C	OF STATE	ENG	TEER ON	Sz.				
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/ed				<u>'1</u> S	-			
	18 :	8 HA	9- 9AM	1201				
	ft. 20 Peet To used used oved b ved	tt. in 20 A 20 A	tt. in 20 A 10 10 11 10 12 12 12 18	In Top 20 A 0 20 A 0 20 A 0 20 A 0 RECOR RECOR reet Diameter Tons To Hole in in. Clay gging Contractor. Clay used Tons of Ro nod used Tons of Ro oved by: Basin Supe 101.130 Yathickar 12:8 Hy 9- Hy	Depth tt. in Top Bottom 20 A 0 20 </td <td>Depth Depth Feet 10 Top Bottom Feet 20 A 0 120 120 20 A 0 120 120 RECORD OF MUDDING AN Record of MUDDING AN Cett Diameter Tons No. Sacks of To Hole in in. Clay Cement 10 A O 120 120 PLUGGING REC City used Tons of Roughage used nod used Output: Dispervisor No. Basin Supervisor No. Basin Supervisor No. Basin Supervisor IS HV 9- HVH 1961</td> <td>It. In Top Bottom Peet Type Shoe 20 A 0 120 120 0 pen 20 Date Date 0 0 0 pent 0 20 A D D Date Plug 0 0 PromT 20 A D D D 0 PromT 0 0 0 0 0 0 0</td> <td>Dunds ft. Threads in Depth Top Feet Type Shoe Perform 20 A 0 120 120 Open 00 20 Diameter Tons No. Sacks of Cement Methods Used 20 A D Diameter City State 20 D D Diameter City State 20 D D D Diameter Diameter<!--</td--></td>	Depth Depth Feet 10 Top Bottom Feet 20 A 0 120 120 20 A 0 120 120 RECORD OF MUDDING AN Record of MUDDING AN Cett Diameter Tons No. Sacks of To Hole in in. Clay Cement 10 A O 120 120 PLUGGING REC City used Tons of Roughage used nod used Output: Dispervisor No. Basin Supervisor No. Basin Supervisor No. Basin Supervisor IS HV 9- HVH 1961	It. In Top Bottom Peet Type Shoe 20 A 0 120 120 0 pen 20 Date Date 0 0 0 pent 0 20 A D D Date Plug 0 0 PromT 20 A D D D 0 PromT 0 0 0 0 0 0 0	Dunds ft. Threads in Depth Top Feet Type Shoe Perform 20 A 0 120 120 Open 00 20 Diameter Tons No. Sacks of Cement Methods Used 20 A D Diameter City State 20 D D Diameter City State 20 D D D Diameter Diameter </td

ection 6			LOG	OF WELL
Depth in From	n Feet To	Thickness in Feet	Color	Type of Material Encountered
0	19	18		Soll
18	20	_2		Coltohe
20	40	20		sand and rock
40	20	30		uater sand
70	23	25		landy clay
95	120	25		water sand
			·····	
			····-	
	·			
			······································	

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

Muniel Ukbatt gm

			ST				EIELD E	NGREAL
			Section		. INFORMATIO	N		.Jan HEC
	CON DT	is ENig				Own	er's Well No L	. 7935
Street	r Post Office A	Address	1800 H	·MAR	58240			
					and is locate	4.1.41		
							70.6	
		-			-	<u>18-5</u> Ra	-	<u> </u>
Subo	livision, record	ed in			County.	A. CT. DI		
				leet.	N.M. Coordinate	System		Zone ir
) Drilling	Contractor_	ALCCA	Dri	LLing	60.	License No	WD-76	3
	•					N'. M. 8		
						Trycon.		
	-		-	-	•	•		
evation of 1		_				ft. Total depth		
mpleted w	ellis 🔀	shallow 🗖	artesian.		Depth to wate	r upon completion	n of well	5 ft.
Denti	in Feet	Sec		NCIPAL WAT	ER-BEARING S	TRATA	Estimate	d Yield
From	To	in Feet	·	Description o	f Water-Bearing	Formation	(gallons pe	
5	100	35	5A	NA to	ANdSI	ropue.	19	
				P-	2.1,612.5			
			Sectio	on 3. RECOR	D OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.		in Feet Bottom	Length (feet)	Type of Sho	e Perf From	orations To
51	Pre		<u>Top</u>		20		80	100
	160		0	100	2			
_		┨────┤─						
	L	.L	·····	L		L		<u> </u>
Depth	in Feet	Secti Hole	on 4. RECO Sac		DING AND CEM			
From	То	Diameter	of M		of Cement	Metho	od of Placement	
C	100	11	ļ			Air	<u></u>	
			L					
-								
			Seatio	n 5 PLUCCI				J
ging Contr	actor	·····	Sectio	n 5, PLUGGI				
ress					No.	Depth in I		ubic Feet
Well Plugg	ged				 	<u> </u>	Bottom 0	of Coment
ing approv		State Des-	n					
		State Engi	neer Repress		4			
Received	July 11	, 1978	FOR USE	OF STATE E	NGINEER ONL').		

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	oth in Feet	Thickness in Feet	Cotor and Type of Material Encountered
From	To		· · · · · · · · · · · · · · · · · · ·
0	45	45	CALICHE
15	100	65	SANd & SAN' STENE Febblas
		1	
		+	
	1	1	
	+		
	+		
	1		
	<u> </u>		<u> </u>
		Section 7.	REMARKS AND ADDITIONAL INFORMATION
			JUL 11 All 8 30
			CE D

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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.

Allton Fellin. Driller

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

FORM WR-23 FIELD ENGR. LOU

STATE ENGINEER OFFICE

COPY

180'

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	City of Hobbs	"We	11 No.	
				Street and Number	P.O. Box 1117			
	se	ction	7		Hobbs		New Mexic	:0
					r Permit NoL-3274 E			
				(B) Drilling Contracto	or. Walco Drilling	Co. Lice	ense No3	49
 		8			212 E. New York Hereford			
		Ĵ			ed			
				Drilling was completed	l	June 15		19 66
(1)1		\ · · ·						

(Plat of 640 acres)

tate whether well is shallow or artesian_____sballow_____Depth to water upon completion____34'

Section 2

PRINCIPAL WATER-BEARING STRATA

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

ction 3

RECORD OF CASING

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

Section 4

RECORD OF MUDDING AND CEMENTING

Depth Trom	in Feet To	Diameter Hoie in in.	Tons Clay	No. Sacks of Cement	Methods Used
0	30	30"		3½ yds	poured in from top
	1	1 1			

ection 5

PLUGGING RECORD

e of Plugging Contractor			L	icense No
reet and Number				
ons of Clay used Tons of Roughage use	ed		Type of 1	oughage
ging method used	·····	Dat	e Plugged	
ging approved by:				e placed as follows:
	No.		of Plug	No. of Sacks Used
Basin Supervisor		From	То	
FOR USE OF STATE ENGINEER ONLY				
te Received Sept. 11 1967 8:29AM				

L-3274 Use Muni Location No. 18.38.7. 234434

Depth in 1	Foot	Thickness		
rom	To	in Feet	Color	Type of Material Encountered
0	2	2	brown	top soil
2	32	30	white	caliche and caprock
32	45	13	buff	sandrock and sand layers
45	50	5	red	red sand
50	55	5	buff	clay
55	174.	124	buff	sand and rock stringers
74	180	6	red	redbed
				L'S Elev
				Depth to K Trc // · · · · · · · · · · · · · · · · · ·
				Elev of KTrc,
				Loc. No
				Loc. NoField Check
				Hydro, SurveyField Check ×
				Hydro, SurveyField Check ×
				Hydro, SurveyField Check X SOURCE OF ALTITUDE GIVEN
				Hydro, SurveyField Check X SOUTREE OF ALTITUDE GIVEN Interpolated from Tapo, Sheet Determined by Inst. Leveling
				Hydro, SurveyField Check
				Hydro, SurveyField Check X SOUTREE OF ALTITUDE GIVEN Interpolated from Tapo, Sheet Determined by Inst. Leveling
				SOURCE OF ALTITUDE GIVEN Interpolated from Table, Sheet Determined by Inst. Leveling
				Hydro, SurveyField Check X SOUTREE OF ALTITUDE GIVEN Interpolated from Tapo, Sheet Determined by Inst. Leveling
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				Hydro, SurveyField Check X SOUTREE OF ALTITUDE GIVEN Interpolated from Tapo, Sheet Determined by Inst. Leveling
				Hydro, SurveyField Check X SOURCE OF ALTITUDE GIVEN Interpolated from Tapo, Sheet Determined by Inst. Leveling

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

. /

Walco Drilling Co. By: (s) Larry Haney

Well Driller

STATE INEER OFFICE



				WELL NE	CUND		ElEt by c	
			Section	I. GENERAL	INFORMATIC	ON	FIELD ER	
	of well <u>Ca</u>	stle and	Wigzel	1		Owner's	Well No	
Street o	r Post Office A	ddress P	0. Draw	er 8 <u>31</u>		0#net :		
City and	State Mid.	land, Te	exas 7	9701	<u></u>			
	ed under Permi							
a	¼	%%	¼ of Se	ection	Township	Range	e	N.M.P.M.
b. Traci	t No	of Map N	0	of tl	he			
c. Lot I Subd	No. <u>3</u> livision, recorde	of Block No	7	of th	ne <u>Del N</u> County.	lorte Industi	ial (2n	d. <u>unit)</u>
		-		feet, 1	N.M. Coordinat	e System		
3) Drilling	Contractor	Abbott	Bros.	·····		License No	/D-46	
ddress	.0. Box (537, Hot	bs, New	Mexico	88240			
rilling Began	6/10/	/74 Cor	npleted	6/12/74	Type tools	Cable	_ Size of hole_	<u>8</u> in.
levation of la	ind surface or .			at w	ell is	ft. Total depth of	í well_100_	ft.
ompleted we		ihallow 🗖				er upon completion o		
ompieted we	μι δ ∟Δ ιδ							11.
D	in Feet	1		CIPAL WATE	ER-BEARING	STRATA	Estimated	Vield
From	To	Thickne in Feet		Description of	Water-Bearing	Formation	(gallons per i	
		E0.						
50	100	50		and				
	<u></u>							
		<u> </u>						
	I	.L	Sactio		OF CASING			
Diameter	Pounds	Threads		in Feet	Length		Perfor	ations
(inches)	per foot	perin.	Тор	Bottom	(feet)	Type of Shoe	From	<u> </u>
7	23	10	0	100	100	None	50	100
					<u> </u>			
								<u>}</u>
		Sect	ion 4. RECOI	RD OF MUDE	DING AND CE	MENTING		
Depth From	in Feet To	Hole Diameter	Sack of Mu		ubic Feet f Cement	Method	of Placement	
						<u>Cement</u> at	top	
	· · · · ·							
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				_,				!
			Section	n 5. PLUGGIN	G RFCORD			
	ictor			······	I			
	d				No.	Depth in Fee Top B		bic Leet Cement
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e Received								
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ile No	2-	72/2		Use		Location No		
	•							

18.38.7.232=PERMIT

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			Section 6. LOG OF HOLE
	h in Feet	Thickness in Feet	Color and Type of Material Encountered
From	To		
0	2	2	Surface Soil
2	20	18	Caliche
20	50	30	Sand
_50	100	50	Water Sand
	1		
	1	1	
_ 		1	
		<u> </u>	
		<u> </u>	
<u> </u>			
		-	

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

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

Murrell Abbett Driller N.S.

INSTRUCTIONS: This ' should be executed in triplicate, preferably typewritten, and submitted t appropriate district office

(This form to be executed in triplicate)

WELL RECORD

. 1

Date of Receipt	*******		Permit No	
Name of permittee	. Harry C			
Street or P.O.,	1181		, City and State I.ovington	<u></u>
.' Well location and	description: The	abellor	well is located in	
			180 , Range 380 ; El	
			hole,	
			lling was commenced	
		-	name of drilling contractor J T Bur	
•.	; Addı	ress,	2. Hobbs. N. L; Driller's License	No. SELLLA.
2. Principal Water-be	aring Strata:	v	· . :	
Depth in From	n Feet To	Thickness	Description of Water-bearing Format	ion
No. 1 0	1	1	ticht soil	
No. 2 1	21	20	caliche	
No. 3 21	30	9	sandstone	
No. 4 20	50	20	watersand	
90 No. 5	10mm ds Threads D	Depth of Casing or Liner Top Bottom		Perforations
No. 5 Casing Record:	ds Threads D t. yes inch	Depth of Casing or Liner Top Bottom	· Feet of Casing Type of Shoe From	1 T
No. 5 Casing Record: Dismeter Poun- in inches Per i	da Threads D to per Inch	Depth of Casing or Liner Top Bottom	Fret of Casing Type of Shor From	• T
No. 5 Casing Record: Dismeter Poun- in inches Per i	13mm de Threads D It. wer inch	Depth of Casing or Liner Top Bottom	Fret of Casing Type of Shor From	·
No. 5 Casing Record: Dismeter Poun- in inches Per i	13mm de Threads D It. wer inch	Depth of Casing or Liner Top Bottom	Fect of Casing Type of Shoe From	, T
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No. 5 Casing Record: Dismeter Poun- in inches Per i	Mann de Threads D is per inch	Depth of Casing or Liner Top Bottom	Fect of Casing Type of Shoe From	, T
No. 5 Casing Record: Dismeter Pount in inches	Norm de Threads D is per inch	Depth of Casing or Liner Top Bottom	Fect of Casing Type of Shoe From	, T
No. 5 Casing Record: Dismeter Poun in inches Poun If above construction	Mann de Threads D is per inch	Depth of Casing or Liner Top Bottom	Fret of Casing Type of Shoe Pron	, T
No. 5 Casing Record: Dismeter Poun in inches Poun If above construction	// du Threads D de Threads D wer inch	Depth of Casing or Liner Top Bottom	Fret of Casing Type of Shor From give location:	, T
No. 5 Casing Record: Dismeter Poun in inches Por	// du Threads D de Threads D wer inch	Depth of Casing or Liner Top Bottom	Fret of Casing Type of Shor From give location:	, T
No. 5 No. 5 Casing Record: Dismeter Pount in inches Port If above construction of Section	//a da Threads D t. per inch a replaces old wel 	Depth of Casing or Liner Top Bottom	Fret of Casing Type of Shor From give location:	4,
No. 5 No. 5 Casing Record: Dismeter Pount in inches Port If above construction of Section	//a da Threads D t. per inch a replaces old wel 	Depth of Casing or Liner Top Bottom	Fret of Castury Type of Shor Pron give location:	4,
No. 5 No. 5 Casing Record: Dismeter Pount in inches Port If above construction of Section	//a da Threads D t. per inch a replaces old wel 	Depth of Casing or Liner Top Bottom	Fret of Castury Type of Shor Pron give location:	, T
No. 5 No. 5 Casing Record: Dismeter Pount in inches Port If above construction of Section	//a da Threads D t. per inch a replaces old wel 	Depth of Casing or Liner Top Bottom	Fret of Casing Type of Shor From give location:	, T

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18.38.6.433 F. H

5. Log of Well:

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1108 34313	so		
aolisamo's to golightssod	τ τ	τ	0

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

Licensed Well Driller

anottourtaul

This form shall be executed, preferably typewritter, 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.





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			Castion			FORMATIC	N	ja ≥ 1. s 1.	e eessiadika <u>fa</u> d		
Owner of	wall K	² . N. 7	γ γ γ	1. GENE V.SO			Owr	or's Well No	257.7		
		ddress	N/ NX		24						
			52-9					······			
		t No. 2-				and is locate	-	300			
8	MSE	% <u>NE</u> % I	$V \not\equiv 1/4$ of S	ection	./	_ Township	<u>180 R</u>	ange <u>58 k</u>	N.M.P.M		
b. Tract l	No	of Map No	•		of the .			7.1			
c. Lot No Subdiv	ision records	of Block No	2A LEA		of the _ Co	Del	Norte	NN QL	IST-TIA		
	•					•	e System		Zone in		
the									Grant.		
Drilling C	ontractor	G.D. C.	6AK	er	W.L	V. Se	License No	WDbs	-7		
ress La	1. Box	232/	Ho	bbs	Ν.	М.	88240				
ing Began	6-7-	- /976 Com	pleted La	-9-	76_	Type tools_	CABLE	Size of ho	olein.		
					_		D ft. Total dept				
							er upon completio				
pleted well	is 🖉 s	shailow 🗆 a							ft.		
Depth i	n Feet	Sec Thickness	tion 2. PRIN					Estima	ted Yield		
From	Ťo	in Feet		Descripti	escription of Water-Bearing Formation				(gallons per minute)		
65	112	47	1-1	UAT	Ater SAND				PM		
			Sectio	n 3. REC	ORDO	FCASING					
iameter nches)	Pounds per foot	Threads per in.	Depth Top	in Fect Bott		Length (feet)	Type of Sh	oe Pe From	erforations TO		
5/8			x	<u> </u>		112	NONE				
				//=	~ -	112	1 V 0/V C	- 1700	112		
						·····					
		L		I			L				
Depth in	Feet	Sectio	on 4. RECO		1	G AND CEM					
rom	То	Diameter	of M			ement	Metho	od of Placemen			
		8									
			C., .+i	n 5 DI 11	CONC						
ng Contraci	tor					RECORD					
ss	·					- No.	Depth in		Cubic Feet		
ell Plugged	L					-	Тор	Bottom	of Cement		
ng approved	ı by: 				,	- 3					
		State Engir	ieer Represe	ntative		4					
					E ENGI	MULTO ONL	v				
eceived			FOR USE (OF STAT	E ENGI	NEEK UNL	r				
eceived	2-75		FOR USE (FWL _	F	SL		

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			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
ð	/	1	Top Soil BLACK. Soft
	24	25	CALICKE GRAU Med
26	36	10	Hard Pocts Brown
36	112	76	WATER SAND REDBROWN Soft
• /			
<u> </u>		<u>.</u>	
			·
		Section 7. F	REMARKS AND ADDITIONAL INFORMATION
			2 17 17 C 22
			10E 3

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.

20 Ô C dal. Driller

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

possible when any well is

,			0.7		EER OFFIC	c			Revised June 1
			51	WELL R		L		Fi	ELU Lita
1			Section	1. GENERA	L INFORMA	TION			
A) Owner of	wellCh	narismat	ic Chri	stian_C	enter		Ow	ner's Well Na),
Street or F City and S	Post Office A StateHo	ddress <u>10</u> bbs, Ne	w Mexic	o <u>882</u>	40				
ell was drilled	under Permit	NoL-	7078		and is l	ocated in	the:	,	
a	_ <u>% _ SW</u> y	4 <u>SW</u> 4_	SE ¼ of S	ection <u>6</u>	Town	ship]	<u>85 </u> r	ange31	8EN.M.P
b. Tract N	No	of Map N	o	of	the				
c. Lot No Subdiv	 ision, recorde	of Block No. d.in	Lea	of	the _ County.				
				feet	N.M. Coord	inate Sys	tem		Zone
	ontractor		Bros.				License No.		Ura
Idress P.C									
							Cable	0	f hole8
evation of land									120
ompleted well	is 🕅 si	hallow 🛛	artesian.		Depth to	water up	on completic	n of well	58
	<u> </u>	Se	ction 2. PRI	NCIPAL WAT	FER-BEARI	NG STRA	TA	·····	
Depth ir From	n Feet To	Thicknes in Feet		Description	of Water-Bea	ring Forn	nation		mated Yield 15 per minute)
58	120	62		Sand	· · · · · · · · · · · · · · · · · · ·				
							· ·		
									<i>e</i>
	<u></u> ,	I							
		······································		on 3. RECOR	D OF CASH	NG	·		
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Lengi (feet		Type of Sh	oe F	Perforations rom To
7	23	10	0	120	12	2	NONE	7	4 120
		10		1 120			NOKE		+ 120
				1					
	<u> </u>			l					
Depth in	Feet	Sect	ion 4. RECO		DING AND Cubic Feet	CEMENT	ING	·····	
From	То	Diameter	of M		of Cement		Meth	od of Placen	nent
1							Cement	at top	
┣ ───┤-									
								s	
			Sectio	in S. PLUGG	ING RECOR	.D			
Igging Contract				in S. PLUGG	ING RECOR	.D	Dusth in	East	
dress ging Method				in 5. PLUGG	[.D	Depth in Top	Feet Bottom	Cubic Lect of Cement
dress	1			in S. PLUGG	N	lo.			
dress ging Method . e Well Plugged	1					lo.			
dress ging Method . e Well Plugged	1		gineer Repress	entative		lo.			
dress gging Method . c Well Plugged	1		gineer Repress			lo.		Bottom	

		 ;	Section 6. LOG OF HOLE
Depth From	in Feet	Thickness in Feet	Color and Type of Material Encountered
Prom	To		
0	3	3	Surface soil
3	26	23	Caliche
26	58	Sand	(tight)
58	86	28	Sand-water
86	114	28	Sand (tight)
114	120	6	Sand-water
	.ù		
	<u> </u>		

Section 7. REMARKS AND ADDITIONAL INFORMATION

-75 SEP 8 AM 8 47 STATE ENGINEER OFFICE

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

Murrell Albott Driller H.B.

INSTRUCTIONS: This ' of the State Engineer.

should be executed in triplicate, preferably typewritten, and submitted t ctions, except Section 5, shall be answered as completely and accurate

appropriate district office possible when any well is

	1)		STATE ENGINEEI	OFFICE	D. "1r	u ∦3 Gulf
			WELLEC			
arest district of curately as pos	ffice of the S ssible when	State Engine any well is (or All sections ex	cent Section 5. S	nali de answered	submitted to the as completely and used as a plugging
ction 1			-			
	<u> </u>					
						Техав
						is located in the
						Rge. 38 E
<u></u>						se No. 10-46
						·····
		1				New Nexico
		Drilling v	was commenced	Aug	18t <u>30</u>	19.57
		J Drilling w	vas completed	Aug	1st 31	
(Plat of 640	-	f	a level	Tratal da	nth of woll 3	00
-			ahallow			
tte whether we	II IS SHAHOW	or artesian.			ter upon comple	
ction 2		PRIN	ICIPAL WATER-BEA	RING STRATA		
No. Depth	in Feet	Thickness in Feet	г	escription of Wate	r-Bearing Formation	n
50	100	50	water pand	1	· · · · · · · · · · · · · · · · · · ·	
	<u> </u>		······			
ction 3			RECORD OF CA	ASING		
Dia Pounds	Threads	Dej	pth Feet	Type Shoe	Perfor	ations
in. ft.	in	Top	Bottom	Type Shoe	From	То
1					[l
tion 4		RECOR	D OF MUDDING A	ND CEMENTING		
Danth in Part	Diameter		No. Sacks of		Methods Used	
Depth in Feet		Mothode Ured				
	- Hole in in		Cement		Miculous Oscu	
			Cement			
From To			PLUGGING REC	CORD		
from To	Hole in in		PLUGGING REC			
from To	g Contractor		PLUGGING REC		License No.	
rom To To tion 5 ne of Plugging set and Numbe	g Contractor.		PLUGGING REC		License NoState	
From To To I stion 5 me of Plugging eet and Numbe as of Clay used	g Contractor	Tons of Ro	PLUGGING REC	Туј	License No. State	
From To To tion 5 me of Plugging eet and Numbe as of Clay used gging method u	g Contractor	Tons of Ro	PLUGGING REC	Tyj Date Plu	License No. State	19
From To To tion 5 me of Plugging eet and Numbe as of Clay used gging method u	g Contractor	Tons of Ro	PLUGGING REC	Ty Date Plu Cement Plug	License No. State pe of roughage gged	19 follows:
From To To I stion 5 me of Plugging eet and Number as of Clay used gging method u gging approved	g Contractor. er	Tons of Ro	PLUGGING REC	Ty Date Plu Cement Plug	License No. State oe of roughage gged is were placed as	19
From To To I stion 5 me of Plugging eet and Number as of Clay used gging method u gging approved	g Contractor. er	Tons of Ro	PLUGGING REC	Date Plu Cement Plug	License No. State oe of roughage gged is were placed as	19 follows:
From To To I stion 5 me of Plugging eet and Number as of Clay used gging method u gging approved	g Contractor. er	Basin Supe	PLUGGING REC	Date Plu Cement Plug	License No. State oe of roughage gged is were placed as	19 follows:
From To To I stion 5 me of Plugging eet and Number as of Clay used gging method u gging approved	g Contractor. er	Tons of Ro	PLUGGING REC	Date Plu Cement Plug	License No. State oe of roughage gged is were placed as	19 follows:
From To To To To To To To To To To To To To T	g Contractor. er	Basin Supe Basin Supe Englighter Day 20 FFICE	PLUGGING REC	Date Plu Cement Plug	License No. State oe of roughage gged is were placed as	19 follows:
rom To To I tion 5 te of Plugging et and Numbers of Clay used gging method u gging approved FOR USI	g Contractor er used d by: E OF STARE F	Basin Supe Basin Supe Engline E by 2 P 11 1957	PLUGGING REC	Date Plu Cement Plug	License No. State oe of roughage gged is were placed as	19 follows:

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Section 6

LOG OF WELL

ection 6 LOG OF WELL				
Depth i	In Feet	Thickness	Color	Type of Material Encountered
From	To	in Feet		
0	1	1		8011
1	22	21		caliche
22	35	13		sand
35	40	5		sand rock
40	50	10		sand
50	100	50		water sand
			·····	
· ·				

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

Well Driller

STATE	ENG	INE	ER	OFFICE	



WELL RECORD

Section 1. GENERAL INFORMATION

Street o	r Post Office A	ddressP	O. Box	2508		Owner	's Well No	
		Hobbs						
-		t No <u>L</u>					•	
				-		Rang		
		-						
c. Lot M Subd	ło ivision, recorde	of Block No.		of th	e County.		.	
						System		Zone i
) Drilling	Contractor	Abbott-	Bros. D	rilling_		License No	WD-46	
ddressP	.0. Box	637, Hob	bs, New	Mexico		<u>. </u>	<u></u>	
illing Began	6/15/81	Com	pleted	6/16/81_	Type tools 🕻	able	Size of hole .	<u>12</u> ‡"ir
evation of la	nd surface or _			at we	ll is	ft. Total depth o	f well1	7 .0 ft
ompleted we	llis IZ s	shallow 🗀 a	artesian.		Depth to wate	upon completion o	f well	5.8 ft
				CIPAL WATE	R-BEARING S			
Depth	in Feet	Thickness	· · · · · · · · · · · · · · · · · · ·		Water-Bearing I	<u>_</u>	Estimated	
From	To	in Feet					(gallons per	minute)
58	82	24	Sar	nd	- <i>.</i>			
106	141	35	Sar	nd	<u> </u>			
50	166	16	Sar	nd				
		l						<u> </u>
.	<u>.</u>		~	n 3. RECORD	OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	From	rations To
<u>0</u> 3/4	.34	Welded	0	170	170	NONE	90	170
						· · · · · · · · · · · · · · · · · · ·		
	<u></u>	Section			I ING AND CEM	ENTING	I	I
Depth		Hole Diameter	Sack of Mu	s Cı	ibic Feet Cement		of Placement	
From	To	Diameter			Centent			
						······································		
						<u></u>		
			Section	S. PLUGGIN	G RECORD			
					r			
ing Metho	!	·····			No.	Depth in Fee Top B		bic Feet Cement
re well Plugg gging approv	ed ed by:							
		State Engi	neer Represei	ntative	<u> </u>			
.	<u></u>	÷	FOR USE C	F STATE EN	GINEER ONLY			
e Received	June 22.	1981						
	L-2790			100		FWL 18_3	FSL. 8.6.414114	
ne No				_ Use	L	ocation No		

	,



			Section 6, LOG OF HOLE
Depth	in Feet	Thickness	Color and Type of Material Encountered
From	To	in Feet	
0	2	2	Surface Soil
2	26	24	Caliche
26	58	32	Sand-tight
58	82	24	Sand-water
<u> 82 </u>	_106	24	Sand=tight
106	141	35	Sand-water
141	150	9	Sand-tight
150	166	16	Sand=water
166	170	4	Sandy clay
	· <u>···</u> ·····		

Section 7. REMARKS AND ADDITIONAL INFORMATION

2 18. HU Th 8 22 MIG KGINEER

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 Allott. Driller J.B.

.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Engineer. A ions, except Section 5, shall be answered as completely and accurat

ressible when any well is

inition 1 (A) Owner of well Street and Number City Initial during regiments Street and Number City Initial during regiments Street and Number City Initial during regiments Street and Number City Street and Number Street and Number Value at top of casing in feet above sea level Total depth of well 206 tee whether well is shallow or artesian Street and NumKer Strata Depth in Peet Thickness in Depth of well 206 SS 1.10 To AC Value and to sector to water street and sector to sector	ion 1 (A) Owner of well image: street and Number City Image: street and Number image: street and Number City Image: street and Number Image: street and Number (B) Drilling Contractor Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number (Image: street and Number Image: street and Number Image: street and Number Image	cord, only Section 1A and S	anv well is -	drilled, re	epaired o	or deepened. Wh	en this form is	l as completely and used as a plugging
Street and Number City	Street and Number City 1	ection 1		or of wall		a qui et pro		
City	City City City And S located in the Section S. Twp. Arge Well was drilled under Permit No. State And S located in the Section S. Twp. Arge (B) Drilling Contractor. State And Andrew Section S. Twp. Arge (Plat of 440 acres) Drilling was completed 19 (Plat of 440 acres) Drilling was completed 19 (Plat of 440 acres) Drilling was completed 10 (Plat of 440 acres) PRINCIPAL WATER-BEARING STRATA A Depth in Feet Thichness in PRINCIPAL WATER-BEARING STRATA PRINCIPAL WATER-BEARING STRATA A Depth in Feet Thichness in J*0 1° 4° J*0 1° 1° J*0 1° 1° J*10 4° 1° J*10 1° 1° J*10 1° 1° J*10 1° 1° <t< td=""><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></t<>		1					
S H <td>Superior Superior Section Section<td></td><td>City</td><td>14°</td><td>• • • •</td><td></td><td></td><td></td></td>	Superior Superior Section Section <td></td> <td>City</td> <td>14°</td> <td>• • • •</td> <td></td> <td></td> <td></td>		City	14°	• • • •			
S H <td>Superior Superior Section Section<td></td><td>Well was</td><td>drilled u</td><td>nder Per</td><td>mit No.</td><td>an</td><td>d is located in the</td></td>	Superior Superior Section Section <td></td> <td>Well was</td> <td>drilled u</td> <td>nder Per</td> <td>mit No.</td> <td>an</td> <td>d is located in the</td>		Well was	drilled u	nder Per	mit No.	an	d is located in the
City State State (Plat of 440 acres) Drilling was commenced 10 (Plat of 440 acres) Drilling was completed 10 (Data of 40 acres) Prome interstanding in	City City State Det in gradie 19 (Plat of 640 acres) Drilling was completed 19 19 19 value, at top of casing in feet above sea level Total depth of well 206 19 value, at top of casing in feet above sea level Total depth of well 206 19 ion 3 PRINCIPAL WATER-BEARING STRATA Description of Water-Bearing Formation 5.1 55 1 °C 6° Cutor 110 1.10 1 °C 6° Cutor 110 1.10 1 °C 6° Cutor 111 1.10 1 °C 6° Cutor 111 1.10 1 °C 10 12 111 111 1.10 1 °C 111 10° 111 111 111 1.10 1 °C 111 10° 111 111 111 111 1.11 1 °C 111 10° 111 111 111 111 111 111 111 111 111 111 1111 111 111 1111 111		5 1/4	$\mathcal{W}_{\mathcal{Y}}$	7S	a of Section	6 🗲 Twp. 2	Rge.
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Basin Supervisor No. From To No. of Sacks Used FOR USE OF STATE ENGINEER ONLY JAVIS JAVIS JAVIS	Basin Supervisor No. From To No. of Sacks Used FOR USE OF STATE ENGINEER ONLY.	From To Hole in in From To Hole in in tion 5 ne of Plugging Contractor. eet and Number		ughage u	City	Тур	e of roughage	
FOR USE OF STATE ENGINEER ONLY	FOR USE OF STATE ENGINEER ONLY	From To Hole in in From To Hole in in tion 5 ne of Plugging Contractor. eet and Number		ughage u	City	Typ Date Plug	e of roughage	
		From To Hole in in From To Hole in in tion 5 ne of Plugging Contractor. eet and Number	Tons of Ro	ughage u	City	Typ Date Plug Cement Plug	s were placed as	19 follows:
		From To Hole in in From To Hole in in tion 5 ne of Plugging Contractor. eet and Number	Basin Supe	ughage u	City	Typ Date Plug Cement Plug	s were placed as	19 follows:
		From To Hole in in From To Hole in in tion 5 ne of Plugging Contractor. eet and Number	Basin Supe	ughage u	City	Typ Date Plug Cement Plug	s were placed as	19 follows:
		From To Hole in in To Hole in in tion 5 me of Plugging Contractor. eet and Number	Basin Supe	ughage u rvisor	City	Typ Date Plug Cement Plug	s were placed as	19 follows:

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LOG OF WELL

	Depth in Feet Thickness							
Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered				
0	1	1	bror a					
1	15	1.5	/ X***	or Lipte				
15	(0)	25	lever.m	8° 3Å				
40	55	13	lean we	ruzd redk				
55	1^0	65	1.27 · · ·	tinini to ber are f				
120	1.10	20	To present	At an while				
140	1.40	<u>.</u> 60	* 200 x.	and the second second second				
190	1.0	10		(Substance J				
100	500	16	1	erri balry				
				· · · · · · · · · · · · · · · · · · ·				

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

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-			ST.	WELL REC	CR OFFICE		, ••• · 1 1	
			Section	1. GENERAL	INFORMATI	ON		
	of well r Post Office A	ddress	Dil	11046	Ler su	. bc Own	er's Well No	
		it No / ,	8007	<u></u>	and is loca	ted in the:		
	SE	SE		6		- 18-5 Ra	inge 38—]	<u> </u>
		-						- 14
		_ of Block No ed in						
		feet, Y=		feet, N	.M. Coordina	te System		
		Ph	G.	60.		License No. 🗹		Gran
Drilling	Contractor	11 1	14.	Til In		<u>License No. 6</u> 7. 7.7. 88	240	· <u>·</u> · · · · · · · · · · · · · · · · ·
						Spudde.		
tion of la	nd surface or .					ft. Total depth		,
pleted we	ll is	shallow 🗋 ai	rtesian.		Depth to wa	ter upon completion	n of well	67_1
			ion 2. PRIN	CIPAL WATE	R-BEARING	STRATA		
Depth From	in Fect To	Thickness in Feet		Description of		ated Yield per minute)		
2	140	25	K	d Da	<u>, </u>		55	
			1-1-		<u> </u>		1	
	<u>}</u>	1		- <u></u>	<u> </u>			
							<u> </u>	
		1						
	<u> </u>	[
ameter	Pounds	Threads		n 3. RECORD	OF CASING	- <u>r</u>	P	erforations
	Pounds per foot	Threads per in.	Depth Top		1	Type of Sho	pe P Fro	m To
nches)			Depth	in Fect	Length	- <u>r</u>	Fro	m To
nches)			Depth Top	in Fect Bottom	Length (feet)	Type of Sho	Fro	m To
nches)			Depth Top	in Fect Bottom	Length (feet)	Type of Sho	Fro	m To
nches)	per foot	per in.	Depth Top ()	in Fect Bottom	Length (feet) 140	Type of Sho	Fro	m To
Depth	per foot	per in.	Depth Top ()	in Feet Bottom /48 RD OF MUDDI	Length (feet) 140	Type of Sho	Fro	m To ∂ / 4 0
Depth	per foot	per in.	Depth Top () n 4. RECOI Sack of Mi	in Feet Bottom /40 RD OF MUDDI	Length (feet) /40 NG AND CE	Type of Sho <u>727324</u> <u>MENTING</u> Metho	od of Placeme	m To ∂ / 4 0
Depth	per foot in Feet To	per in.	Depth Top () n 4. RECOI Sack	in Feet Bottom /40 RD OF MUDDI	Length (feet) /40 NG AND CE	Type of Sho	od of Placeme	m To ∂ / 4 0
nches)	per foot in Feet To	per in.	Depth Top () n 4. RECOI Sack of Mi	in Feet Bottom /40 RD OF MUDDI	Length (feet) /40 NG AND CE	Type of Sho <u>727324</u> <u>MENTING</u> Metho	od of Placeme	m To ∂ / 4 0
nches)	per foot in Feet To	per in.	Depth Top () n 4. RECOI Sack of Mi	in Feet Bottom /40 RD OF MUDDI	Length (feet) /40 NG AND CE	Type of Sho <u>727324</u> <u>MENTING</u> Metho	od of Placeme	m To ∂ / 4 0
Depth	in Feet To / 4/ 2	section Hole Diameter	Depth Top () n 4. RECOI Sack of Mr -5	in Feet Bottom /40 RD OF MUDDI	Length (feet) /40 NG AND Cl: tbic Feet Cement	Type of Sho <u>727324</u> <u>MENTING</u> Metho	od of Placeme	m To ∂ / 4 0
nches) S/8 Depth from 2 ng Contra	per foot in Feet To	section Hole Diameter	Depth Top () n 4. RECOI Sack of Mr -5	in Feet Bottom /48 RD OF MUDDI is Cu id of	Length (feet) / 4 0 NG AND Ch bic Feet Cement G RECORD	Type of Sho <u>727324</u> <u>MENTING</u> Metho	od of Placeme	m To ∂ /4/0 nt
Depth Trom 2 ng Contra	per foot	per in. Section Hole Diameter	Depth Top () n 4. RECOI Sack of Mr -5	in Feet Bottom /48 RD OF MUDDI is Cu id of	Length (feet) /40 NG AND Cl: thic Feet Cement G RECORD	Type of Sha YU-JUL MENTING Metho Alel U.J	od of Placeme	m To ∂ / 4 0
nches)	per foot	per in. Section Hole Diameter	Depth Top () n 4. RECOI Sack of Mr -5	in Feet Bottom /48 RD OF MUDDI is Cu id of	Length (feet) / 4 0 NG AND CE bic Feet Cement G RECORD	Type of Sho YU-J24. MENTING Metho Act U./	ree From	m To ∂ / 4/ 0 nt } Cubic Feet
nches)	per foot	per in. Section Hole Diameter	Depth Top () n 4. RECOI Sack of Mu -5 Section	in Feet Bottom / 4 8 RD OF MUDDI is Cu id of	Length (feet) / 4 0 NG AND CE bic Feet Cement G RECORD	Type of Sho YU-J24. MENTING Metho Act U./	ree From	m To ∂ / 4/ 0 nt } Cubic Feet
nches)	per foot	per in. Section Hole Diameter / () State Engine	Depth Top () n 4. RECOI Sack of Ma -5 Section Cer Represe	in Feet Bottom / 4 8 RD OF MUDDI is Cu id of	Length (feet) / 4 0 NG AND Ch bic Feet Cement G RECORD	Type of Sho 727-724. MENTING Method Act U./	ree From	m To ∂ / 4/ 0 nt } Cubic Feet
ng Contra ss ng Metho Vell Plugg ng approv	per foot	per in. Section Hole Diameter	Depth Top () n 4. RECOI Sack of Ma -5 Section Cer Represe	In Feet Bottom J 4 8 RD OF MUDDI IS Cu Id of A 5. PLUGGIN ID F STATE EN	Length (feet) / 4 0 NG AND CE bic Feet Cement G RECORD	Type of Sho 727-724. MENTING Method Act U./	reet Bottom	m To D / J D nt L Cubic Feet of Cement

			Section 6. LOG O
	th in Feet	Thickness in Feet	Color and Type of Material Encountered
From	To		1
0	3	3	dop Rock
3	62	59	Lop poil, White Caliche rocks Red Band uf lack stringers)
67	140	28	Red Band u/ Reck stringers)
		<u> -</u>	
	-		
	+		
		<u> </u>	······································
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- <u></u>	+		
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Section 7. REMARKS AND ADDITIONAL INFORMATION

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

C. m. D filer Driver x

INSTRUCTIONS: This form bould be executed in triplicate, preferably typewritten, and submitted te of the State Engineer. Al ons, except Section 5, shall be answered as completely and accurate of the State Engineer. Al ons, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepenee. Then this form is used as a plugging record, only Section 1(a) and Section 5 reed be completed.

appropriate district office

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Revised	972
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FIN .

WELL RECORD	
Section 1. GENERAL INFORMATION	

STATE ENGINEER OFFICE

(A) Owner (of wellJi	m Sharp	1815 Cham	<u> </u>		Owi	ner's Well No.	L-8549	
Street o ■ Citvano	r Post Office A 1 State <u>Ho</u>	bbs, New	Mexico	88240					
•	ed under Permi					d in the:			
a	¼ ł	₩ <u>SE</u> ¥.	Sel % of Se	ection 6	Township .	<u>18</u> R	ange <u>38 E</u>	N.M.P	
b. Tract	No	of Map N	lo	of th	e		····		
	No. 1, 2, 3, 4, ivision, recorde					Norte Indu	<u>strial</u>		
				feet, N	.M. Coordinate	System		Zone Gra	
) Drilling	Contractor	G. D. 01	daker			License No	WD-65	7	
ddress	P. O.	Box 2321	H	obbs, New	Mexico	88240			
illing Began	9-30-	81 Cor	npleted	0-1-81	_ Type tools _	Rotary	Size of	hole_103	
evation of la	nd surface or _	36	50	at we	ll is3650	ft. Total dept	h of well	130	
ompleted we	ll is 🛿 S					r upon completio	n of well	48	
Depth	in Feet	Se	ss	CIPAL WATE			Estin	nated Yield	
From	То	in Feet		Description of	Water-Bearing	rormation	(gallon:	s per minute)	
48	130	72	Wa	ater Sand		<u></u>	25:GPM		
<u> </u>									
- 	1	<u> </u>	Section	n 3. RECORD			<u> </u>		
Diameter	Pounds	Threads	Depth	in Feet	Length (feet)	Type of Sh	oe ———	Perforations	
(inches)	per foot	per in.	Top	Bottom				om To	
6 5/8			0	130	130	None		120130	
					`				
		Sect	tion 4. RECOF	RD OF MUDDI	NG AND CEM	ENTING			
	in Feet To	Hole Diameter	Sack of Mu	s Cu	bic Feet Cement		od of Placem	ent	
riom i			of Mud o						
From	- 10	104	1						
		105							
		10½							
		10支							
	ctor	1		5. PLUGGIN					
eging Contra						Depth in		Cubic Feet	
gging Contra ess ing Method e Well Plugge	ctor				G RECORD	Depth in Top	Feet Bottom	Cubic Feet of Cement	
gging Contra ess ing Method e Well Plugge	ctor				E RECORD				
gging Contra ess ing Method e Well Plugge	ctor				G RECORD				
gging Contra ess ing Method e Well Plugg gging approve	ctor d ed by:	State Eng	gineer Represes		G RECORD				
gging Contra	ctor	State Eng	gineer Represes	ntative DF STATE EN(G RECORD		Bottom	of Cement	

			Section 6. LOG OF HOLE
Depth	in feet	Thickness	
From	To	in Feet	Color and Type of Material Encountered
	3	3	Top soil Brown
3	15	12	Caliche
15	45	30	Gray Soil
45	46	1	Hard Brown Rock
46	130	74	Water Sand
130			
		v	
	i.		
			· ·
	<u> </u>	Seation 7.1	PENARKS AND ADDITIONAL INCOMATION

Section 7. REMARKS AND ADDITIONAL INFORMATION

HAR	<i>u</i>
26	ROSWELL, NA
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17	F
	E n
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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.

all Driller

of the State Engineer. A

INSTRUCTIONS: This for should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office tions, except Section 5, shall be answered as completely and accurat "hen this form is used as a plugging record, only Section 1(a) and Section

possible when any well is be completed.

STR	UCTIONS:	This for	m shou	ld be ex	STATE WEL	triplicat	e, prefera	bly_ty	pewri	tten, and	submit	ted to the
arest curat	district of	fice of th sible whe	e State en any	e Engine well is a	er. All see drilled, re	ctions, ex epaired o	cept Secti	on 5. s	hall b	e answere	d as con	pletely and a plugging
ction	1		(A) Own	er of well	C18	ud Bred	kon				
				-								
					Cleane							
	- -		w	ell was	Cleane drilled u	d nder Pei						ated in the
				SW 1/4	nw 1/	nw	1/4 of Secti	ion7		Twp. 18s	Rg	e. 3 e
	+											ND14
		1	SI	treet and	l Number	Вох	42		·			
	1		Ci	ity	ine		Nen 22	8		State	NM,	19.58
				clean	Váš ^{es} comn 1 n c	ienced	May 22	-				<u>19.25</u> <u>19.58</u>
(Plat of 640	acres)	D;	rilling w	as.compi	etea						
evatio	on at top o	f casing i	in feet a	above se	a level		To	otal de	pth o	f well 90		
	hether we				shallo	W	Depth	to wa	ter uj	on compl	etion n	o water
ction	2			PRIN			RING STR					
	Depth i	n Feet	Thick	ness in					- 12			
No.	From	То		eet		L	escription o	n water	r-Bear	ng Formati	on	
	drille	d and	baile	d.fro	n 76 to	90 f	et in v	wet	oav	ing san	đ.	
			1									
			1									
												•
	•		<u> </u>					None		·····		······································
ction	1					ND OF CA			, ,			
Dia in.	Pounds ft.	Threa		Dep Top	Bottom	Feet	Type S	Shoe		From	orations	То
	1					<u> </u>						
	1											
						<u> </u>					1	
ction	4			RECORD								
	h in Feet	Diame	ter	Tons	No. Sa		U OLINEI					
From	To	Hole in	1	Clay	Cem				Metl	nods Used		
	<u> </u>	<u> </u>			<u> </u>							
tion f	i				PLUGG	ING REC	ORD					
		Contract	Or						т	icense No		
et a												
eetan sof(-		e placed as		
eet an s of (gging	method u approved	by:				—	Depth	1 of Plu				
eet an is of (gging	method u	by:								No. of		
eet an is of (gging	method u	by:	3	sin Supe	VISOF	No	From	Te	0	110. 0	Sacks U	lsed
eet an is of (gging	method u approved	by:			D			To	0		Sacks U	/sed
eet an is of (gging	method u approved	OF STA	E E VG	HELON				To	D		Sacks U	/sed
eet an s of (gging gging	method u approved	OF STA	E E VG			- No			D		Sacks U	/sed

e No. 1-2453 Use Doru Location No. 18. 38. 7.113



Depth in Feet		Thickness	Color	Type of Material Encountered
From	To	in Feet	Color	Type of Material Encountered
			9 A 4 . 4 .	
	#	1 22 2		
				· · · · · · · · · · · · · · · · · · ·
			•	
				······································
			<u> </u>	

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				· · · · · · · · · · · · · · · · · · ·
				· · · · · · · · · · · · · · · · · · ·

And the second second

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

Jun

STATE ENGINEER OFFICE WELL RECORD

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Section 1. GENERAL INFORMATION

Street o	r Post Office A	ddress <u>605</u>	50 Lovin	<u>gton HWY</u>		es) 0	wner's Well No	. <u></u>			
	d State <u>Ho</u> ed under Permit					cated in the:					
						1ip <u>18 S</u>	Pages 38	F	NMPN		
•						np <u></u>	-		_N.M.P.M		
		-				Norte Indust					
	ivision, recorde					NOT CO INGGO					
					t, N.M. Coordi	nate System					
Drilling	Contractor		<u>Oldaker</u>			License No	WD-65	57			
dress	P. O. B	ox 2321	Hobbs, N	ew Mexic		8240					
Drilling Began	2-17-82	Com	pleted <u>2</u>	-19-82	Type too	ls <u>Rotary</u>	Size of	hole_1	03 in		
vation of la	and surface or .	3650		at	well is 36	50 ft. Total de	pth of well	130	ft.		
Completed we	ill is 🗹 s				_	vater upon complet	ion of well	<u>5</u> 8	ft.		
Depth	in Feet	Thickness			TER-BEARIN		Estir	nated Y	ield		
From	То	in Feet		Description	of water-Bear	ing Formation	(gallon	s per mi	nute)		
58	130	72	W	ater, Sa	ind		25	<u>G PN</u>			
						······			•		
·			Section	n 3. RECOI	RD OF CASIN	G					
Diameter (inches)	Pounds per foot	Threads per in.		in Feet	Length (feet)		Shoe	Perfora			
6 5/8	periodi	per m.	<u>Тор</u> О	Bottom 130				om	<u>To</u> 130		
						None		20	150		
1	J	Section	on 4. RECOF	D OF MU	DDING AND C	EMENTING		I			
Dep th From	in Feet To	Hole Diameter	Sack of Mu	s	Cubic Feet of Cement	1	thod of Placem	od of Placement			
		105				- 					
_											
			Section	1 S. PLUGG	ING RECORE)					
lugging Contra .dess	ictor										
lu ing Metho	d				Nc	D. Depth Top	n Feet Bottom		c Feet ement		
ate-Well Plugg lugging approv	ed ed by:	- /			$ \left \frac{1}{2} \right $						
		State Engi	neer Represer	ntative							
-			-		ENGINEER O						
ate Received	March 17	, 1982									
	-8663					FWL					
Pine No				_ Use		Location No	10, 30, /, 12	.4411			

		i.	Section 6. LOG OF HOLE
Depth i	n Feet	Thickness	
From	То	in Feet	Cotor and Type of Material Encountered
0	2	2	Brown Dirty
2	20	18	Caliche
20	25	5	Gray Soil
25	55	30	Brown Rock
55	130	75	Water Sand
130			
	<u> </u>		
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Section 7. REMARKS AND ADDITIONAL INFORMATION

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	ROSY
C 3	f1,577
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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.

Child 61 カビ Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office possible when any well is drilled, repaired or deepend when this form is used as a plugging record, only Section 1(a) and Section need be completed

~								Revised 1972
			ST		EER OFFICE		EIF	
				WELL RI			<u>1</u> 10	LD ENGR. LO
	B	1.1.			LINFORMATION			
Street of	r Post Öffice Ad	idress $\angle \mathcal{L} \mathcal{L}$	021 0	e utrul	5. Ē.	Owne		
	State/4	/	,		and is located	in the		
							~~~~~~	- <u>/-</u> N.M.P.M.
		••					nge	<u> </u>
b. Tract	No			01	the	· ~ 7	1.tr.	1+14.40
c. Lot N Subd	ivision, recorde	of Block No	0	01	$\operatorname{Lounty}$ .	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<u></u>	1 2/11/ +2
		_ feet, Y=_		feet	, N.M. Coordinate	System	<u></u>	Zone in
the		13	la Du					Grant.
	-							/
-		- /		1 1				7
	• •	. س		/ /				holein.
evation of la								<u>}</u> , ft.
ompleted we	ll is 🕅 sl	hallow 🗆	artesian.		Depth to water	upon completion	of well	/ <u>}</u> ft.
Denth	in Feet	S Thickne		NCIPAL WAT	TER-BEARING ST	RATA	Fatin	nated Yield
From	To	in Fee		Description	of Water-Bearing F	ormation		s per minute)
43'	130	37	1 Wa	ter_	Land if	Thin	50	6-1117-
<b>.</b>			Lay	(~)^)_	City Sed	in word by		
			10	L				
			Sectio	on 3. RECOR	D OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Sho	e ——	Perforations om To
5-1"			1'above		1711	Noni		9' 1191
1.12			1 00000	14-7		<u></u>		
	I		L					]
Depth		Hole	Sac	ks	DING AND CEMI	······	d of Placem	ent
From	To	Diameter	of M		of Cement			
-								
[]							· · · · · · · · · · · · · · · · · · ·	
				n 5. PLUGG	ING RECORD			
ress	ctor					Depth in F	cet	Cubic Feet
ging Method e Well Plugge	d ed				No.	·	Bettom	of Cement
gging approv	ed by:							
		State En	gineer Represe	entative				
	October 8	, 1981	FOR USE	OF STATE E	ENGINEER ONLY	,		
e Received	October 8 -8517	, 1981	FOR USE	Qua	d	FWL		

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Section 6. LOG IOLE Depth in Feet Thickness Color and Type of Material Encountered in Feet From Τo , / Sand & Taip So 6.1 41 37 Sec nd 24 901 yer,

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE EIGINEER Roswell, NM Oct 8 8 34 AM '81

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

and from Driller

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

## STATE ENGINEER OFFICE WELL RECORD

### Section 1. GENERAL INFORMATION

(A) Owner (	of well	Ladshaw Ex	(plosives	Owner's Well No.
Street o	r Post Office A	ddress <u>P.O</u>	<u>Box 1754</u>	
City and	d State	Hobbs. N.I	1. 88240	
	MWICWI	NT 4	Well and is located in the: X ¼ of Section7 Township18S	Range 38EN.M.P.M.
b. Trace	t No	of Map No	of the	
			of the County.	
			feet, N.M. Coordinate System	
(B) Drilling	Contractor	Alan Eades	License	No. WD-1044
Address		<u>49 Katy La</u>	ne, Hobbs, N.M. 88240	
Drilling Began	_4-20-87	Complet	ed <u>4-20-87</u> Type tools <u>Rotary</u>	Size of hole <u>6 1/2</u> in.
Elevation of la	nd surface or		at well is ft. Tota	l depth of well. <u>65</u> ft.
Completed we	llis X⊂ si	hallow 🗔 arte	sian. Depth to water upon com	pletion of well <u>36</u> ft.
		Section	2. PRINCIPAL WATER-BEARING STRATA	
Depth	in Feet	Thickness	Description of Water-Bearing Formation	Estimated Yield
From	То	in Feet	Description of water-Bearing Pormation	(gallons per minute)
36	65	29	Water Sand	35

### Section 3. RECORD OF CASING

Diameter	Pounds	Threads	Depth	in Feet	Length	Type of Shoe	Perforations	
(inches)	per foot	per in.	Тор	Bottom	(feet)		From	То
4 3/4	160psi				65		35	65
						· · ·	1	
				L			.l	<u>ا</u> ا

### Section 4. RECORD OF MUDDING AND CEMENTING

eet	Hole	Hole Sacks Cu		Method of Placement
То	Diameter	of Mud	of Cement	Method of Placement
	1			
1				
			1	
	To	To Diameter	To Diameter of Mud	To Diameter of Mud of Cement

### Section 5. PLUGGING RECORD

Plugging Contra Address					[		Depth	in Feet	Cubic Feet
Plugging Metho	d b					No	Тор	Bottom	of Cement
Date Well Plugged						- 1			
Plugging approved by:						2			
					[_	3			
			State Engineer Representative			4			
				FOR USE OF STATE	ENGINEE	RONLY			
Date Received	May	22,	1987						
	-			Q	uad		FW	L	. FSL

Usc

File No. NO FILE NUMBER

Quad _____ ... OBS

Location No. 18.38.7.13133

				Section 6. LOG OF HOLE
-		h in Feet	Thickness in Feet	Color and Type of Material Encountered
-	From 0	<u> </u>	1	Top Soil
-				
-	1	15	14	Caliche
_	15	30	15	Sand
_	30	31	1	Rock
-	31	35	4	Wet Sand
	35	36	1	Rock
	36	65	29	Water Sand
-				
-				
		-		
		1		
			1	
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·····				

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

Kent ad Ü Driller

NSTRUCTIONS: This fo

uld be executed in triplicate, preferably typewritten, and submitt f the State Engineer. Al. ons, except Section 5, shall be answered as completely and accui as possible when an rilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Sectio 5 need be completed.

e appropriate district office as possible when any well is

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D. W. C

STAT	L	GINE	ER	OFFICE	
			~~	~~	

Revis ne 1972

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FIELD Etrain 200

# WELL RECORD

			Section	1. GENERAL	INFORMATIO	N			
(A) Owner o	of wellGerg	e Barton	n	·····		Own	er's Well No. <u>803</u>	348 1	
	r Post Office Ad I State <u>Ho</u>								
	d under Permit						205		
_							nge <u>38E</u>	N.M.P.M	
c. Lot N Subd	No. <u>2</u> ivision, recorded	of Block No. 1 in <u>Le</u>	6 ea	of th	e <u>2nd Ur</u> County.	<u>it Del Nort</u> e	e Industricl		
d, X= _	<u>~</u>	_ fcet, Y=		feet, N	.M. Coordinate	System			
								Grant	
						License No	<u></u>		
	2. 0. Box 2								
			-				Size of hole_		
Elevation of la	ind surface or	3650	<u></u>	at we	11 is3650	ft. Total depth	of well130	ft.	
Completed we	11 is 🖄 st	allow 🗖	artesian.		Depth to wate	upon completion	of well <u>6</u>	7 ft.	
		Se	ction 2. PRIN	NCIPAL WATE	R-BEARING S	TRATA			
Depth From	in Feet To	Thicknes in Feet		Description of	Water-Bearing I	formation	Estimated (gallons per r		
67	130	63		Water, Sa	nd		25 G. P. M		
							×.		
	<u> </u>		Sectio	on 3. RECORD	OF CASING				
Diameter (inches)	Pounds per foot	Threads		in Feet	Length	Type of Sho	e	ations	
T	periodi	per in.	Тор	Bottom	(feet)		From	To	
6 5/8			0	130	130	none	110	130	
<b></b>									
Denth	in Foot		-1		ING AND CEM	ENTING			
Depth From	То	Hole Diameter	Sacl of M		bic Feet Cement	Metho	d of Placement		
		9							
						· · · · · · · · · · · ·			
	<u></u>		Castia		C RECORD				
Plugging Contra	ctor			n 5. PLUGGIN					
				·····	No.	Depth in I		bic Feet	
Date Well Plugg	d cd					Top	Bottom of	Cement	
Plugging approv	ed by:				2				
		State Eng	ineer Represe	entative					
			FOR USE	OF STATE EN	GINEER ONL	(			
Date Received	June 13,	1979		Quad .	<u></u>	FWL	FSL_		
File No	L-8076			Use DO	м. ,	ocation No. 18.	.38.7.14300	<b>)</b> .	

			Section 6. LOG OF HOLE
Depth	in Feet	Thickness	Color and Type of Material Encountered
From	To	in Feet	
0	3	3	Top Soil_Black Soil
3	18	15	Caliehe
18	33	15	Gray
33	63	30	Water, Sand
63	67	4	Rocks
67	130	63	Water, Sand
130			
		<u> </u>	
	<del>_</del> <u>_</u>		
		<b> </b>	
	· · · · · · · · · · · · · · · · · · ·		
		Section 7.	REMARKS AND ADDITIONAL INFORMATION INFORMA
			M OF 8

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.

es. 1. Driller

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INSTRUCTIONS: This for of the State Engineer At

hould be executed in triplicate, preferably typewritten, and submitted t appropriate district office ions, except Section 5, shall be answered as completely and accurate

nossible 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.

Page 1 of three

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.

Page 2 of three

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

Sincerely yours,

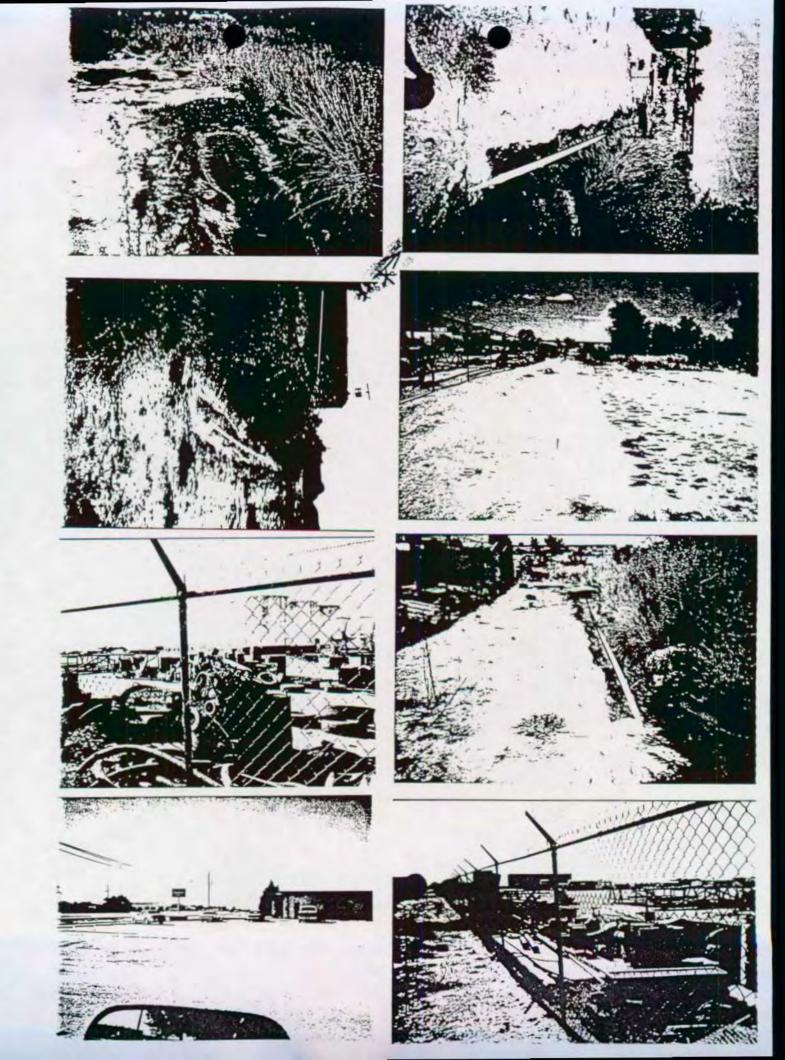
Warme Price

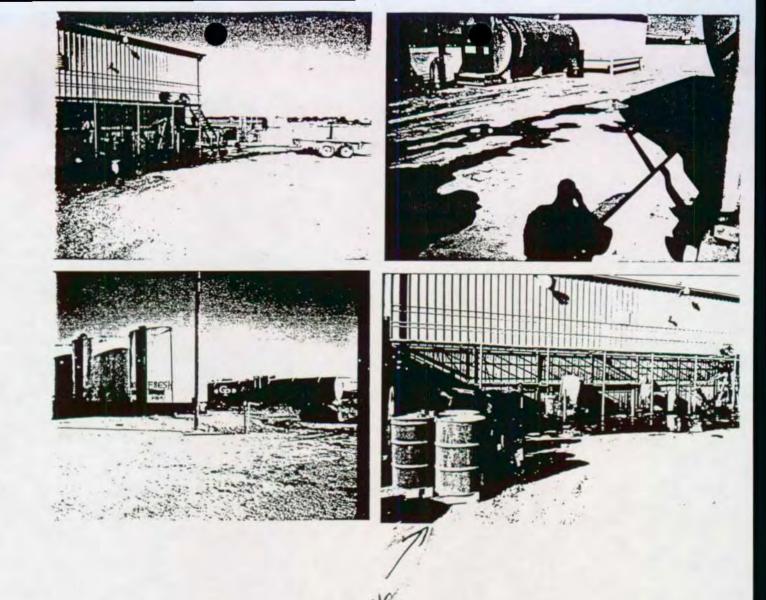
Wayne Price-Environmental Engineer

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

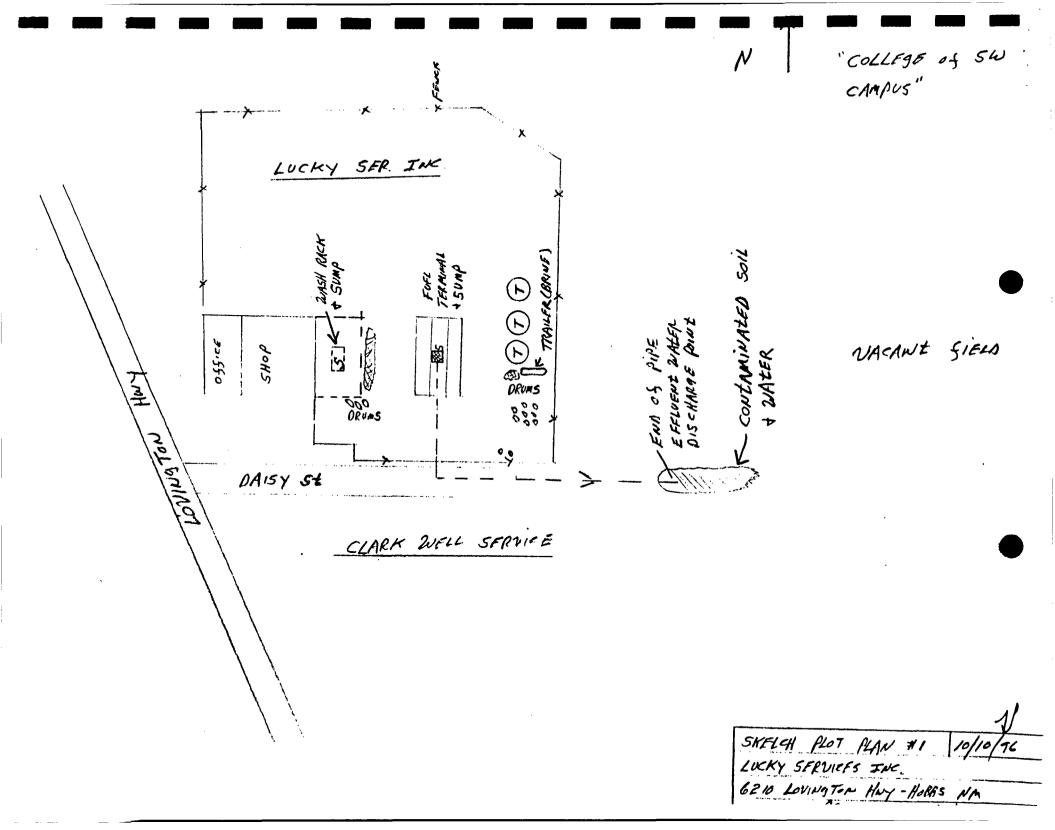
attachments- 1-sketch copies of pictures

Page 3 of three





2 ORIGINAIS * SEAT TO SANTA SE!



### 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

Date 12-11-94 Time 9:21Am Telephone Personal Originating Party Other Parties Mr. Kevin Neraise Port nc K Souchiz- UIT Services. Subject yard. Habbs MEKY Services Discussion Discharge theday Drile Ceased int Nayne, yan Dictober 10. th. 190 50 above at Said Kovin ground Jan 1 avia the ٥F direction mayne, Said that い da  $KI_{1}/m$ the ents minat S#1 Р¥ rai 0 50 plastic the av Mall Hr 1f SINC  $\sqrt{1}$ wind repor S Inspection iom Conclusions or Agreements that Know Mr. discharge Dlan Nicase a et nould letter Mahiran comin they N3t Cintr Ca Distribution File, Wayne Price. Signed



### MEMORANDUM OF MEETING OR CONVERSATION

Time 8:07AM Date 12-11-96 Telephone Personal Originating Party <u>Other Parties</u> Wayne Pat Prile - OLD Souchez - UCD Subject Well Service. (Hobbs) LUCKY Discussion the discharge ASKLD 1fhad Crased -(Lucky Has not Wayne Surl. not officially in writting that the discharge has wayne notifu CCA 2 Remedia nºo nosa <u>rechvl</u> Lucky inst went m the Facility on inspected pection report on December 5, 1996. KININ Neca ·ND. phine Conclusions or Agreements OCD Santa Fe to Plan veguirement letter. that I Know  $t_{o}$ Wayne gn going Necaise m Lucky. hone 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. 10:15053928783

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NEW MEXICO 67505 (505) 827-7131

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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,

Kagun

Roger C. Anderson Bureau Chief Environmental Bureau - OCD

RCA/pws

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

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STATE OF NEW MEXICO



ENERGY, MINERAL'S 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

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Sincerely,

Roger Counder

Roger C. Anderson Bureau Chief Environmental Bureau - OCD

RCA/pws

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

# 509 (55 865 9

US Postal Service é ---Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse) Sent to LGCKU Street & Number EXHONSTAN Post Office, State, & ZIP Code May 19,199 Te \$ Postage **Certified Fee** Special Delivery Fee **Restricted Delivery Fee** Return Receipt Showing to Whom & Date Delivered April . Return Receipt Showing to Whom, Date, & Addressee's Address 3800, \$ TOTAL Postage & Fees Postmark or Date PS Form _

LUCKY.WELL.SERVICE

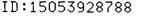


6210 LOVINGTON HIGHWAY P.O. BOX 5790 HOBBS, NM 88240

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

DATE:	4-18-97
то:	Roger anderson State of new mexico O.C.D. Kevin hecaise
COMPANY:	State of new mexico O.C.D.
FROM:	Kevin hecaise
PAGE	1 of 2 pages
comments:	ase call if any question - 392-1547
<u></u>	
	τ

# LUCKY.WELL.SERVICE



APR 18'97 12:06 No.004 P.02



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

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Sincerely, 10 rause Den

Kevin Necaise Sales & Safety Representative Lucky Services, Inc.

# **Pat Sanchez**

1 a 🦷

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

### Your message

To:Wayne PriceSubject: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
То:	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 notificiation 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

Time 10:15 AM Date 1 - 8 - 97Telephone Personal Originating Party Other Parties Sunchez Pat USEPA-Raim6 Greg Pashia-RCRA) Subject RCRA 1996 Fall/Winter Inspections in -ucky Services Sont Μ. Discussion Pashia had that they Mr. ndica ta in spect wint Various 51 telephone Rohr nduson and notified by inspection torc br -nr.Ku Sprvices Inc. Know that an ht. require OCDwin Submi him -0 inspecticu has Ċι. Smic their Not did 12rca RC MUTON problems. GNV fluid problems have RCR 41 drilling of h qf abelling tornap terms 1~ tn Conclusions or Agreements Roger will Mr. Pashia (/ ( I) i.e. Anderson Sind CONG inspection SP. DO 04 about HC WAS 9150 Visted Securit site a-2605 Distribution File, Roger Anderson. Signed

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION OIVISION 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:

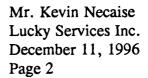
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Pursuant to Section 3106.A, a discharge plan should be submitted for approval to the OCD Director within 120 days of receipt of this letter. Please submit the original and one copy to the OCD Santa Fe Office and one copy to the OCD Hobbs District Office. 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.

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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

9 288 258 718

**US Postal Service Receipt for Certified Mail** No Insurance Coverage Provided. Do not use for International Mail (See reverse) Sent to Luckis Mr. Necays/ Street & Number RER TTER Post Office, State, & ZIP Code Postage \$ Certified Fee Special Delivery Fee Restricted Delivery Fee 3661 **Return Receipt Showing to** Whom & Date Delivered Return Receipt Showing to Who Date, & Addressee's Address 3800 TOTAL Postage & Fees \$ Postmark or Date Fom ß

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

enclosure-application form, guidelines, and WQCC regulations.



#### MEMORANDUM OF MEETING OR CONVERSATION

Time 9:21Am Date 12-11-96 Telephone Personal Other Parties Originating Party Port Sanchez- OCI Mr. Kevin Nergise -nc Ky Services. Subject Habbs yard. NEKY Services Discussion Discharge ceased the day Mayne price rent facility on Dictober 10, 1996 above Kovin Said Stanned ling aven ground the oF nayne. direction within the Said that 2  $K_{I,I}$ NOX excavated The SAI they cnta minat 01 50 and the within faci placed (3 Surc rf his not wiend wayne report Inspection trom Conclusions or Agreements Mr. Necaise Know that discharge plan a letter would be comin (UCN) they anestion ha and Ca Distribution File, Wayne Price. Signed



#### MEMORANDUM OF MEETING OR CONVERSATION

12-11-96 Time 8:07AM Date Telephone Personal Originating Party Other Parties Price - OCD Pat Sanchez -UCD Wayne Subject Service. (Hobbs) LUCKY Well Discussion discharge Asked had Ι Crased -Wayne Shor. Lucky Has no no discharge wame Wri tha notitu ing Lucky nent 5+ Ø on ing Facility on Dec reporton 392 Neca ND. Conclusions or Agreements Santa Fe Τø Sono discharge Plan veguirement letter. that Know  $t_{o}$ Going Mayne Le am Lucky. caise none m Distribution File, Wayne Price Signed

#### STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

December 5, 1996

CONT C 52 POST OFFICE BOX 1980 HOBBS. NEW MEXICO 88241-1980 (505) 393-6161

 $\tilde{E}_{i}^{t}$ 

DEC 1 0 1996

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

Environmental Jureau Oli Conservation Division

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

#### Subject: <u>Discharge of fuel terminal sump effluent water.</u>

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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.

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Page 1 of three

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.

Page 2 of three

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

Sincerely yours,

Warme 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

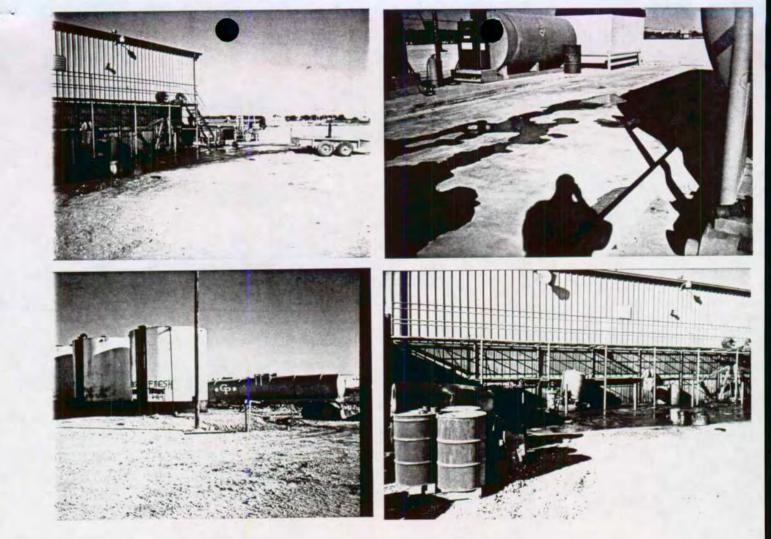
Page 3 of three

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#### STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

Environmental Bureau Oll Conservation Division

PECEWED

DEC 1 0 1996



1017196 - Locking EAST "Lucky Well Service" by OCD



10/10/16 - 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 1 4 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  $R_0P_1$  and  $R_0P_2$ ).

The facility tour began at the north side of the main building and proceeded counterclockwise 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  $R_1P_1$ ,  $R_1P_2$ ,  $R_1P_3$ ,  $R_1P_4$ ).

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  $R_1P_5$ , and  $R_1P_6$ ). 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  $R_0P_4$ ,  $R_1P_7$ , and  $R_1P_8$ ).

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  $R_0P_3$ ,  $R_1P_9$ ,  $R_1P_{10}$ ,  $R_1P_{12}$ ,  $R_1P_{13}$ , and  $R_1P_{14}$ ). 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.

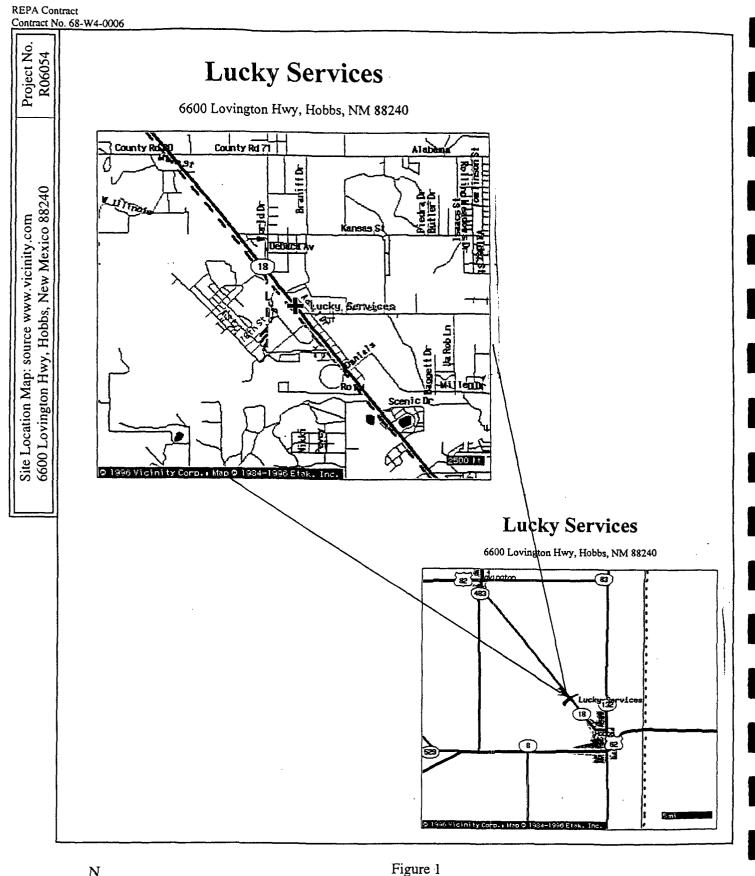
The Lucky facility does not have an EPA generator's identification number.

#### 3.2 Facility Operations and Waste Managment 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





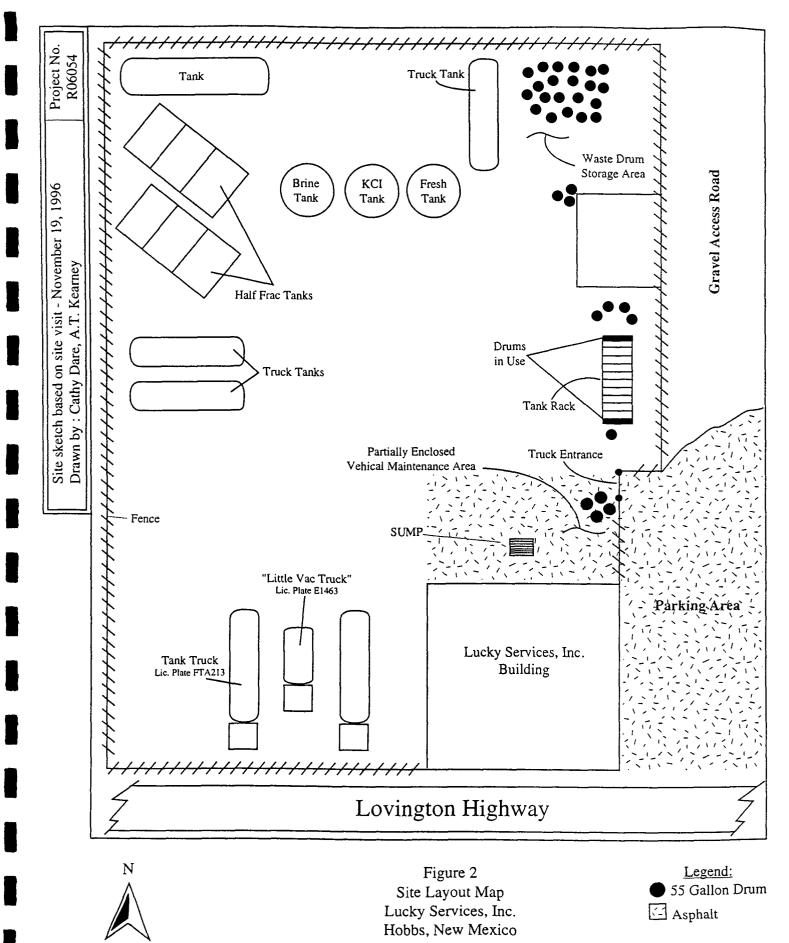
A.T. Kearney 9/1637/cc

3-2

Site Location Map

Lucky Services Hobbs, New Mexico A.T. Kearney REPA Contract

Contract No. 68-W4-0006



Not to Scale

A.T. Kearney 9/1637B/cc

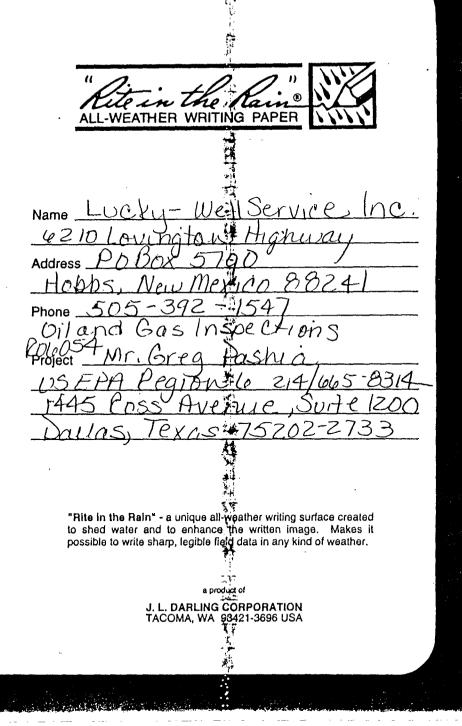
REPA Contract Contract No. 68-W4-0006 as previously containing drip gas. Three other drums were identified as being labeled as previously containing naphtha, an unknown acid, and used motor oil (refer to Photographs  $R_1P_{16}$ ,  $R_1P_{17}$ ,  $R_1P_{18}$ ,  $R_1P_{19}$ ,  $R_1P_{20}$ , and  $R_1P_{21}$ ). 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  $R_0P_3$ ,  $R_1P_9$ ,  $R_1P_{10}$ ,  $R_1P_{11}$ ,  $R_1P_{12}$ ,  $R_1P_{13}$ , and  $R_1P_{14}$ ). 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  $R_1P_{15}$ ).

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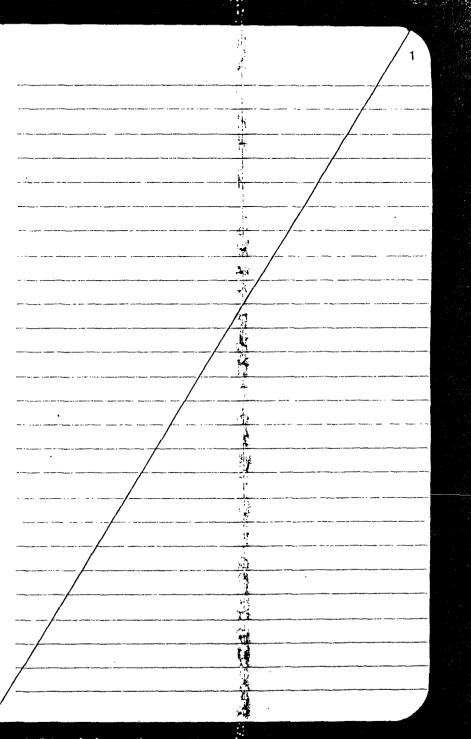
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VOLUME           fluid ounces         29:573         millifilters           gailons (U.S.)         3.785         liters           gailons (U.S.)         3.785         liters           millifilters         0.046         liters           millifilters         0.033         fluid ounces           millifilters         0.264         gallons (U.S.)           TEMPERATURE           *C = (*F - 32) x.555           *F = (*C x 1.8) + 32           Decimals           Milli-           Inchest           91600         mellers           1/16         0052         1.5875           1/8         0.104         3.1750           3/18         0.156         4.7625           1/4         .0268         6.3500           5/18         .0260         7.9350           3/8         0.313         9.5250           1/2         .0417         12.700           5/8         .0521         1.955           3/4         .0622         19.050           7/8         .0729         22.225           1*         .0633         25.400	
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pints         0.473         liters           quarts         0.946         liters           gallons (U.S.)         3.785         liters           millifiters         0.033         fluid ounces           liters         1.056         quarts           liters         0.264         gallons (U.S.)           TEMPERATURE         *C = (*F - 32) x .555           *F = (*C x 1.8) + 32         *F = (*C x 1.8) + 32            Decimals         Milli-           Inches         0.1001         maters           1/16         0.052         1.5875           1/8         0.104         3.1750           3/16         0.156         4.7625           1/4         .0208         6.3500           5/16         .0260         7.9350           3/3         9.5250         1/2           1/2         .0417         12.700           5/8         .0521         15.875           3/4         .0625         19.050           7/9         .0729         22.225           1*         .0633         25.400           2*         .1667         50.800	
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#### 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

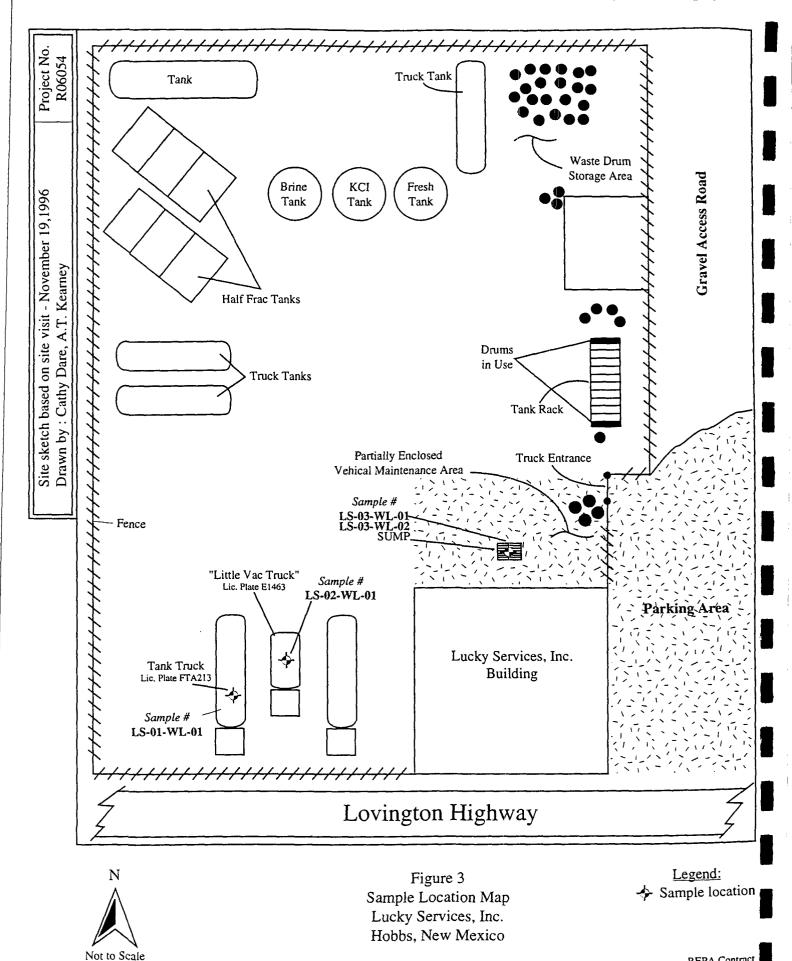
On Tuesday, November 19, 1996, the inspection team collected three liquid samples from the Lucky facility. The EPA inspectors offered the facility the option of obtaining split aliquots of the samples collected by the EPA inspection team, and the offer was accepted. Figure 3 shows the location of each 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), 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  $R_2P_2$ ). 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



REPA Contract Contract No. 68-W4-0006

A.T. Kearney 9/1637C/cc

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  $R_1P_{22}$  and  $R_1P_{23}$ ). 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  $R_1P_{24}$  and  $R_1P_{25}$ ).

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  $R_2P_1$ ). 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  $R_2P_3$ ).

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

TABLE 1Sample Location Identification Numbers

#### 4.2 Analytical Results

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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 2Sample Analytical Results

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

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

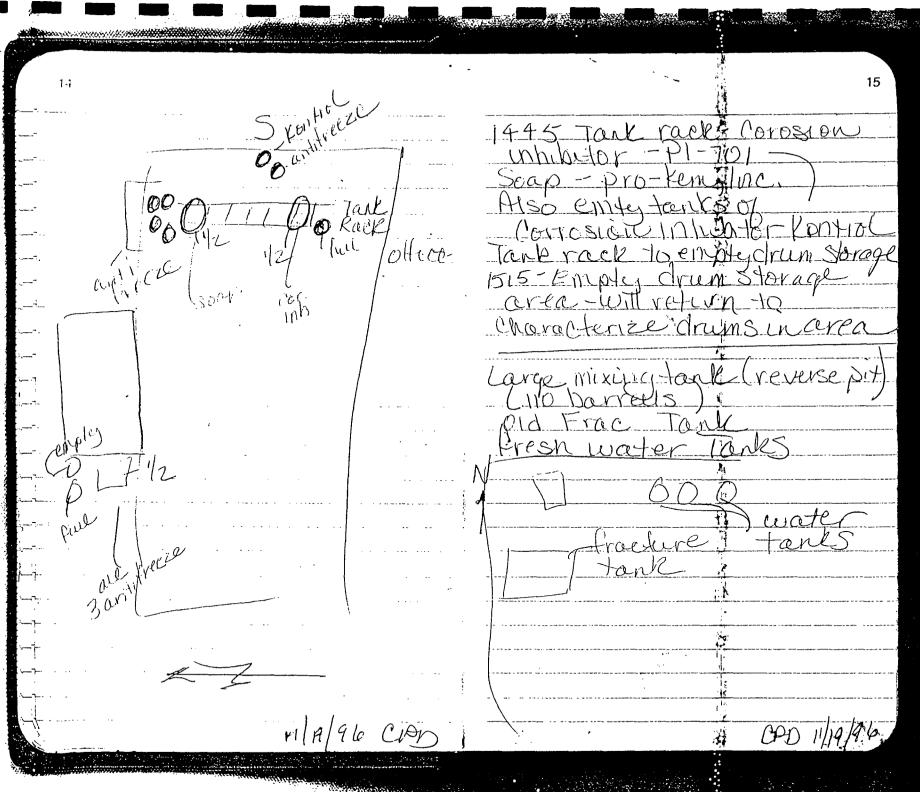
## APPENDIX A

Field Log

## 7.0 REFERENCES

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



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an and state and show of the book of the second state 22 23 Sample location Summar LS-01-WL-01-Tanber Track FTAZI3 - OC volume collected here LS-02-WL-01 - Yacuum Track E1463 LS-03-106-01-Sump 15-03-WL-02-Duplicate 1800 Team left "Luckey facility Received MSDS sheers for all materials on-site, as managed collected all materials Sumi 10 abon ana MAE FRO ILOND 18 sher nine Aren 4210

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11/18/96 11/19/96 ave to be picked up 1452 Photo# 5. Drug of for disposal by Longstor Soap pr a halding rak! 1156 Photo # 8 Druns located located on the SE right to the other differ Portion of the facility On photo # 7 are also 1453 Photo # 10 Drums off for disposel. South of Antificize ligenteel the other drung near the other drun 1459 Philo#9 Tanker located on the south side of fagility of SE corner of Facilit 1455 Photo dy Photo of 1504 Photo #10 Holding Tanks diving located on the Southkast Corner Deated near the South Ess of the fatility Corner of facility These are-

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### PHOTO LOG FOR LUCKY WELL SERVICE SAMPLING EVENT

	рното #	DIRECTION	DESCRIPTION	Tune
22 23 24 25 26 27	1 2 3 4 5 6	N NW W S E	Sample from tanker truck Lic. # E1464 Close-up Sample from tanker truck Sample from Vacuum truck Close-up Sample from Vac Truck Sample from wash out sump Field blank	1440 1650 1650 1652 1.255 1715

DRAFT

11/19/96 Roll #-1 11/19/50 Lucky Service Luckey Services arrived @ 1/210 1440 Photo # Photo of Jump area Looking East 1325 Bill Hicks located on the North east -portion of facility They Keep fresh Water + Brine 1441 Phylot 2 Suparen APKansas Junktion Alliance is where May Looking South take any left overs 1449 Philo # 3 Trush forta or waste. Located on the Northryst autia behind the main of Building 1450 Photo sty Traph area which contains pil Filters C

11/19/96 Down 1518 Pinclot 20 Jok Drip gas Quem located in the Other SE corner 151 st facility 11/20/96 Baroid Roll#5 Photo # 1 Drum Storage Area Looking North Photo# 2 Drum Storage aren looking East Southeast Photo# 3 Lookin, West North West Photo The Looking East at the Badle 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.

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#### 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.

CI-410 CORROSION -INHIBITOR

UNIVERSAL CHEMICAL CO., 1200 WASHINGTON STREET LEVELLAND, TEXAS 79336	INC. ISSUE DATE - 06/15/92
=======================================	
	RS: ING CO., INC 806/894-6125 800/424-9300
SECTION 1. HAZARDOUS ING	REDIENT INFORMATION
	E, WATER DISPERSIBLE CORROSION INHIBITOR HYDROCARBON CONTAINING METHANOL D, AROMATIC ODOR, LIQUID.
SECTION 2 HAZARDOUS	INGREDIENT INFORMATION
	IXTURE MAY BE PROPRIETARY INFORMATION. IN THE NCY, COMPOSITIONAL INFORMATION WILL BE R NURSE.
THIS PRODUCT IS HAZARDOUS FOLLOWING COMPOSITIONAL I	AS DEFINED IN 29CFR1910.1200, BASED ON THE NFORMATION:
COMPONENT	OSHA HAZARD
XYLENE METHANOL AROMATIC PETRO:	2,3,5 1,2,3,4,5 LEUM DISTILLATES 1
SECTION 3 HEALTH INFORM	MATION AND PROTECTION
·	NATURE OF HAZARD
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#### CI-410 CORROSION INHIBITOR

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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 RECOMM	ENDS THE ABOVE EXPOSURE LIMITS

CI-410 CORROSION INHIBITOR

UNIVERSAL CHEMICAL CO., INC. ISSUE DATE - 06/15/92 1200 WASHINGTON STREET LEVELLAND, TEXAS 79336

### 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 THROUGHLY 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 AUTOIGNITON 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 CONFINMENT/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.

#### 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.

CI-410 CORROSION INHIBITOR

ISSUE DATE - 06/15/92 UNIVERSAL CHEMICAL CO., INC. 1200 WASHINGTON STREET LEVELLAND, TEXAS 79336 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 4=SEVERE 1 1 3 FLAMMABILITY 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. ISSUE DATE - 06/15/921200 WASHINGTON STREET LEVELLAND, TEXAS 79336 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 67-56-1 N/A METHANOL NOT ESTABLISHED PETROLEUM DISTILLATES 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 :Hq 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

#### CI-410 CORROSION INHIBITOR

UNIVERSAL CHEMICAL CO., INC. ISSUE DATE - 06/15/92 1200 WASHINGTON STREET LEVELLAND, TEXAS 79336

SECTION 11 - OTHER INFORMATION

#### 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.

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ASIILAND CHEMICAL, INC. Subsidiary Of Ashland Off. Inc P.O. BOX 2219 COLUMBUS, OHIO 43216 (614) 889-3333

24-HOUR Emergency Telephone 1(800) 274-5263 or 1(800) ASHLAND

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#### ASHLAND PERMANENT ANTIFREE 2

SECTION V-HEALTH HAZARD DATA [Continues

Page: 2

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:

INFIALATION, 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 II IS RECOMMENDED THAT EVERY EFFORT SHOULD BE MADE TO PREVENT THE INGESTION OF ANY ETHYLENE GLYCOL AND TO KEEP PERSONNEL EXPOSURE BELOW THE ACGIN 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

EWZARDOUS 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 TOCONTAINERS 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 VILL-PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE SECTION 11), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NECATIVE 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

EVE 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)

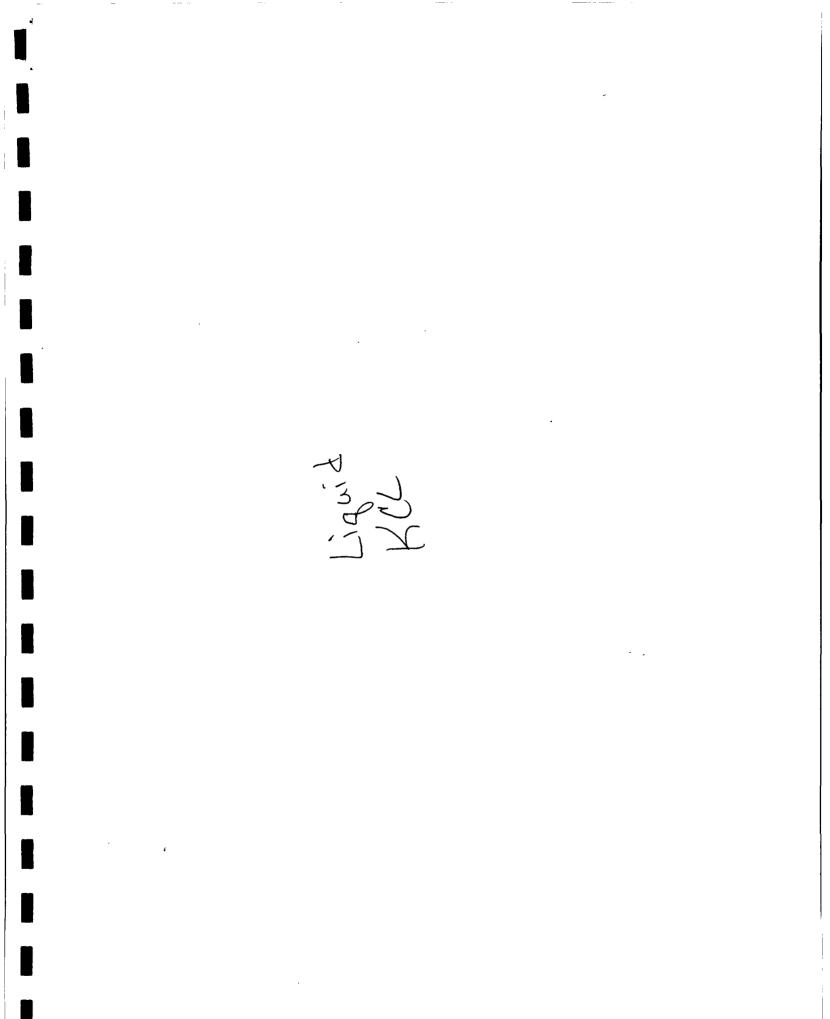
OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

#### SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WIEN 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 WARRANIED 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.

1 1 2 1 Ter 3



	MATERIAL	SAFETY DATA SHEET	
SDS WUMSER: 002 ART NUMSER: REQUET NAME: ST-107 CLAY STABLIZER AS NUMBER:0 HENICAL NAME: ST-107 CLAY STABLIZER			
· · · · · · · · · · · · · · · · · · ·	S	ECTION I	
ANUFACTURER: Pro-Kes, Inc.		HMIS RATINSS:	A.
ADDRESS; 2400 S. Main Lovington, NM 88260		HEALIH: 2 FIRE: 3 REACTIVITY: 0	HEALTH / N FIRE 2/ N 3
EMERGENCY TELEPHONE NUMBER: (505)396-7433	- <u> </u>	PERSONAL PROTECTION: B	
INFORMATION TELEPHONE NUMBER: (505)395-74	33	•	SPEC. HAZ. V REAC
DATE PREPARED: 04/18/95		· · · · · · · · · · · · · · · · · · ·	\/
	TION IT - HATAPDOUS T	NGREDIENTS/IDENTITY INFORMATION	
۵۲۵ 			DTHER LINITS
CAS NINNER HALARDOUS COMPONENT	***************************************	TP TARC PART/Z 313 USHA PEL ACGIH TLV	RECOMMENDED PERCENT
- 6-7 Methanol		?*??? <b>* 400ppm 400ppm</b>	NI
	SECTION III - PHYSIC	AL/CHEMICAL CHARACTERISTICS	
BOILINE POINT	180 deg F	SPECIFIC GRAVITY (H20 = 1)	0.99800
VAPOR FRESSURE ( Hg.)	8.0	NELTING POINT	NI
VAPOR DENSITY (AIR = 1)	9.0	EVAPORATION RATE (Butyl Acetate = 1)	nod.
SOLUBILITY IN WATER: complete			
APPEARANCE AND ODGR: clear liquid, alcoho	l odor '		
GTHER INFORMATION: GENERIC NAME: CLAY STABLIZER			
Flammable Liquid NOS UN-1993			
DOT Response Number27			
DOT Hayard Class Flammable			
DOT Packing GroupIII		• .	
	SECTION IV - FIRE	AND EXPLOSION HAZARD DATA	
FLASH PUINT: 100 dag F.		FLANMABLE LIMITS: LEL: approx 2.0	UEL: approx 12.
EXTINGUISHING MEDIA: Dry Chemical Co2 Foam			
SPECIAL FIRF FIGHTING PROCEDURES: Do not enter fire area without proper p	protection - see sect	ion V - decomposition products possible.	
Fight fire from sele distance/protected			
Heat say build pressur/rupture closed (	containers, spreading	fire, increasing risk of burns/injuries.	
Use water spray/log for cooling.			
Notify authorities if liquid enters se	ver/public vaters.		

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 mir, may travel long distances along ground before igniting / flashing back to vapor source.

PRODUCT NAME: ST-107 CLAY STABLIZER SECTION V - REACTIVITY DATA	
STABILITY:	
Stable under normal conditions.	
INCOMPATIBILITY (MATERIALS TO AVOIC): Strong Oxidizing agents, such as Hydrogen Peroxide, Bromine, and Chromic Acid. Strong Acids. Strong Alkalies. Heat, sparks, open flames, and elevated temperatures.	
HALARDOUS DECOMPOSITION OR BYPRCDUCTS: Incomplete combustion may release poisonous carbon monoxide, carbon dioxide, and oxide	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 defects data are known to exist, this mathematic hatard.hatard. Eye contact: Primary Route Although no appropriate human or animal effects data are known to exist, this material Although no appropriate human or animal effects data are known to exist, this material Although no appropriate human or health effects data are known to exist, this material Skin absorption: Pri Although no appropriate human or health effects data are known to exist, this material Skin absorption: Primary Route Skin irritation:propriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to Although no appropriate human or health effects data are known to	is expected to cause eye irritation. Mary Routed to cause eye irritation. is expected to absorb through the skin.
Ingestion:ation: Although no appropriate human or animal health effects data are known to exist, this ma hazard.	aterial is expected to be an ingestion
Incestion: Although no appropriate human or animal health effects data are known to exist, this ma hazard.	aterial is expected to be an ingestion
HEALTH HAZARDS (ACUTE AND CHRONIC): Acute Health Effects: (Short Term) Trritant to Eyes, Irritant to Skin. Severe Ingestion Hazard. Yapor vill 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: Severa irritation and burning of the linings of the mouth, throat, and stomach may devi	elop. Toxic by ingestion.
Inhalation: Coughing and shortness of breath may result. More severe symptoms are also possible, continuous exposure. Can cause dizziness, unconsciousness, cardiac depression, optic cou	Methanol is a cumulative toxin. Avoid aplication and death.
NEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: This material or its emissions may affect the central nervous system and/or aggravate p observation may be indicated.	pre-existing disorders. Prolonyed
EMERGENCY AND FIRST AID PROCEDURES: Inhalation: If overcome by exposure, remove victim to fresh air immediately. Sive oxygen or artif emergency medical attention. Frompt action is essential.	icial respiration as needed. Obtain
Eye Contact: In case of eye contact, immediately rinse with clean water for 20 to 30 minutes. Retr medical attention	act both eyelids often. Obtain emergency
Skin Contact: Immediately remove contaminated clothing. Wash skin thoroughly with mild map and wat minutes. If sticky, use waterless cleaner first. Ottain emergency medical attention.	er. Flush with lukeware water for 15

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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 dimage to lungs exceeds poisoning risk. Obtain emergency medical attention IMMEDIATELY, Gastric lawage recommended.

#### Emergency Medical Treatment Procedure:

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 opthalmologist immediately. Treat burns or allergic reactions conventionally after decontamination. Bo not induce vomiting. The use of an endotracheal tube should be considered. Administer an aqueous slurry of activated charceal followed by a cathertic such a magnesium citrate or sorbitol,

#### OTHER HEALTH WARNINGS:

The toxicological and carcinggenic properties of this material have nut been fully investigated. Handle accordingly, avoiding contact.

SECTION VII - PRECAULIONS FOR SAFE HANDLING AND USE
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLFO: Equip responders with proper protection (see section VIII). SMALL SPILL: Absorb liquid on paper, versiculite, floor absorbent, or other absorbent saterial, and transfer to hood.
LARGE SPILLS:- Eliminate all ignition sources (flares, flames including pilot lights, electrical sprarks). Persons not yearing protective equipment should be exluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent sourceding, pusp liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor atsorbent, or other absorbent material and shoveled into containers.
Prevent run-off into severs, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that spill has occured.
WASTE DISPOSAL METHOD: Couply with Faderal / State / Local regulations for disposal. Contact state and faderal regulators to deteraine 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 stainluss steel. Store in Lightly 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 fload 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 sust be observed. Store drugs 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, wist, or gas. Keep cuntainer closed when not in use. Empty container way contain Hazardous residues.
SECTION VIII - CONTROL MEASURES
VENTILATION REQUIREMENTS: Either local exhaust or general roce ventilation is usually required.
PERSUNAL PROTECTIVE EQUIPMENT: Respiratory Protection:

If exposure can exceed the FEL/TIV, use only NIOSH/NSER approved air-purifying or supplied air respirator operated in 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 possiblity exists for ave contact due to spraying liquid or airborn particles. Contact lanses must not be Worn.

Skin Protection:

Ispervicus protective suit with gloves, boots, and full head and face protection sust be worn. The equipment sust be cleaned thoroughly after each use.

#### Other Hygenic 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.

#### MSD5 NUMBER: 002 PRODUCT NAME: ST-107 CLAY STABLIZER

#### SECTION VIII - CONTROL MEASURES (Continued)

Other Work Practicess

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Promptly remove solled clothing / wash thoroughly befor reuse.

SECTION IX - ADDITIONAL INFORMATION

ADDITIONAL MANUFACTURER WARNINGS: For industrial use only. Kccp out of reach of children. Failure to use Caution may cause perious injury or illness. Never sighon by mouth.

<u>OTHER PRECAUTIONS AND CONMENTS: Some of the information presented and conclusions drawn herein are from sources other than direct</u> 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 varranty, 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 HSDS was prepared and is to be used only for this product. "If the product is used as a component in another product, this HSDS information may not be applicable.

This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CfR 1200).

Page: 4

Material Safety Data Sheet

EXENTITY (As Used on Labor and Lint)

Essentialube with LP-1000

SHA's Hezers Comply with SHA's Hezers Communication Standard. 29 CFR 1910,1200. Standard must be opnauted for specific requirements.

Fuel addition

#### U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandetory Ferm) Form Approved OMB No. 1218-0072

Here: Burnt against and not parrielled, if any bart is not applicable, of no frigmation & gradients, the space must be marked to register that

Section 1			
Hydrocex, Inc.	Groupincy Tempero Herrier (214) 638-7400		
Astrony (Marton, Street, City, State, and 20 County P.O. Box 560707	Telephere Marties for elevinanti (214) 638-7400		
Dallas, Texas 75356-0707	2-8-94		
	Eguare d'Preset (plant)		

#### Section II - Hezerdous Ingredients/identity Information

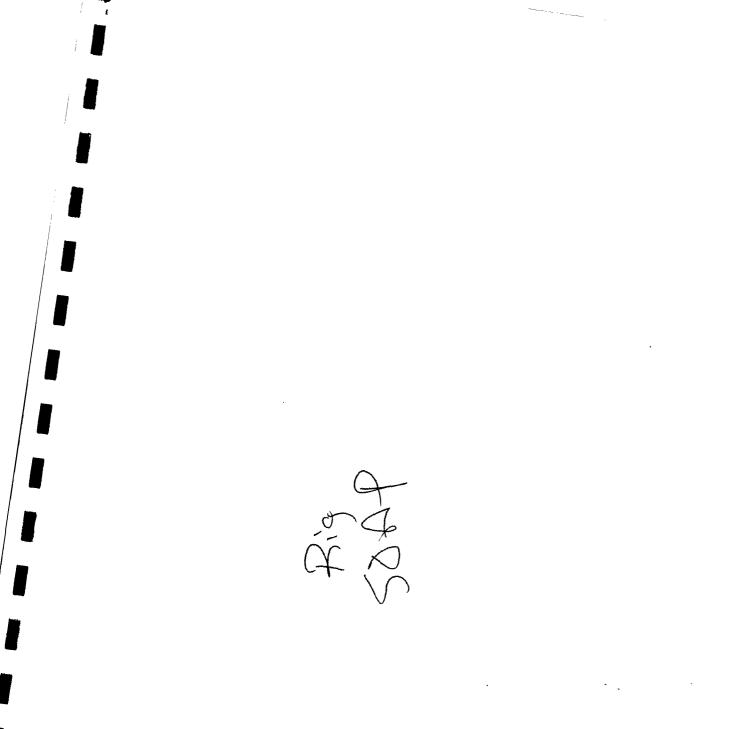
i Hezeropus Components (Sought Chemical Identity: Common Memi(si)	OSHA PEL	ACCEN TLY	Other Lines Recommended	A Contraction
-Severely Evdrorreated Mineral 011	N/A S	me/cn_miair(m	der) W/A	
Flammable Liquid Solvent	100PPM	7522		

Section III - Physical/Chemical Characteristics

	226°F	Souche Grevey (HgO + 1)		90
	N/A	Haing Port		N/A
	B/A	Every Acustry ~ 1]		N/A
Liquid, Ey	drocarbon Od	OT		
plosion Hezerd				
82°7 (I.(	S.C.)	Permucie Limits	LE	UEL
oon Dioxide	Foam and T	acer Spray		
5	82°? (I.)	H/A N/A Liquid, Eydrocarbon Gd Monion Hererd Dete 82°7 (T.C.C.) Son Dioxide, Foam and F	226°F       8/A       8/A       8/A       8/A       8/A       8/A       8/A       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	226°F       N/A       N/A       N/A       Chart Access ~ 11   Liquid, Eydrocarbon Odor.

HOTOGLICH LOCALITY)





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American Sales and Service 5261 West 42nd Street Odessa, Texas 79764

PRODUCT IDENTIFICATION Section 1 (1) Product Name: F-20 BIODEGRADABLE SOAP (2) Chemical Name/Sunonums: n/a (3) Chemical familu: Alkaline Detergent (4) Chemical formula: mixture (5) NFPA Acute hazard rating: (6) Health: 1 (8) Reactivity: 0 (7) Flammability: 0 CHEMICAL COMPOSITION Section 2 (5)  $(1)^{-1}$ (2) (3) (4)Percent Range PEL Ingredient (Chemical Name) CAS Number LD₅₀mg/kg Sodium Nitrite 7632-00-0 <1.0 n/a 214 250 Sodium Metasilicate 6834-92-0 <5.0 n/a Ethulene Diamine Tetraacetate. Tetrasodium <1.0 330 64-02-8 n/a >86.0 Balance non-hazardous EMERGENCY AND FIRST AID PROCEDURES Section 3 (1) Eye Contact: Rinse for 15 minutes with potable water. If irritation persists, seek medical (2) Skin Contact: Rinse with water. (3) Inhalation: Remove victim to source of fresh air. If symptoms persist, seek medical (5) Special instructions for physician: None. PHYSIOLOGICAL EFFECTS Section 4 (1) Primary route (s) of entry into body: (2)  $\underline{x}$  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) X General Exhaust (4) ____None required (5) Personal protective equipment: (6) Respirator type: None required

(7) Gloves: (8) ____Natural rubber (9) ____Plastic (10) ____Nitrile (11) <u>x</u> Neoprene (12) _____Buty] (13) ____Other

(14) Eye Protection:  $(15) \times Glasses$  with side shields

- (16)____Full face shield
  - (17)____Chemical splash goggles
  - (18)___Other: None

#### Telephone 915-381-3740

attention.

attention.

(4) Ingestion: Seek immediate medical attention.

#### MSDS NO. 3

### MATERIAL SAFETY DATA SHEET

### LACQUER THINNERS AND CLEANING SOLVENTS

Section 1

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-Detyi alcohol	71-35-3	4	25ppm-D,
3. Acetone	67-64-1	185	100ppm 0 750ppm-A, 1000ppm 0
4. Methanol 5. Toluene	67-56-1 108-88-3	96 29	200ppm-A,0 100ppm-A 200ppm-0
6. isopropyl alcohol 7. Dibasic ester:	67-63-0	31	400ppm-A,0
<ul> <li>a) Dimethyl glutarate</li> <li>b) Dimethyl succinate</li> <li>c) Dimethyl adipate</li> <li>a. 1-Methoxy-2-</li> </ul>	1119-40-0 106-65-0 627-93-0	} 14 (at 100°C)	10mg/m³-D
propanol acetate 9. 2-Ethoxy butyl	108-65-6	2.4	100ppm-D
acetate 10. Xylene 11. VM&P	112-07-02 1330-20-7	0.3 8	25ppm-D 100ppm-A,0
Naphtha	64742-89-8	~45	100ppm-A.0
12. Mineral Spirits, 13. Aromatic	64742-88-7	~5	100ppm-A.0
hydro- carbons	64742-95-6	~5	50ppm-A.0
*A = ACGIH TLV	/ O = OSHA	D = Du Pont inte	ernal limit.

#### Section III — Physical Data

Evaporation rate: Slower than etner

Vapor density: Heavier than air

Solubility in water: Slight

Approximate boiling range: 129°F-437°F

Percent volatile by volume: 100% (3929S - 93%)

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 bé 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 inhaiation 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.



#### IDENTIFICATION

## Name Mathano

IV. PETERS

Synonyms:Methyl 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 Namours & Co., (Inc.) Address Wilmington, DE 19898 HAZARDOUS COMPONENTS Material(s)

Methanol

PHYSICAL DATA Bolling Point, 760 mm Hg 64.7°C (148.5°F) Specific Gravity @ 20°C 0.792

Vapor Dansity

 $(Air = 1) \sim 1.1$ 

% Voiatlles by Vol.

100%FormAppearanceLiquidClearpH information

#### FIRE AND EXPLOSION DATA

Flash Point Method 11°C (52°F) ICC

Flammable Limits in Air, % by Vol.

Chemical Family Alcohol CAS flegistry No. 67-56-1

Product Information and Emergency Phone (302) 774-2421 Transportation Emergency Phone (800) 424-9300

The VERSENIGHT

77 - T. W

Approximate %

100%

Meiling Point -97.8°C (-144°F) Vapor Pressura mm Hg @ 25°C = 138, @ 37.7°C = 220

Solubility in H₂O

100%

Evaporation Rate (Butyl Acetate = 1)

@ 25°C∿12.5

Color Odor Colorless Faint Alcoholic Octanol/Water Partition Costilicient Log F = -0.82

Autoignition Temperature 365°C (725°F)

Lower 6,7% <del>Upper</del> 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 sprays 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 dets 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 an outside our control, we make no werranties, express or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as a ficense to operate undor or a recommendation to infringe any patents.

#### Page 1 of 3

### 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	1000ppnA,0
2. Methanol	67-56-1	96	200ppm-A,0
3. Methylenn	co c	0.40	500ppm-0
chlarida	73-69-5	340	100ppm-A,D
4. Toluene	102-88-3	29	100ppm-A
5. Isopropyl			
alcohol	67-63-0	31	400ppm-A,O
6. VM&P			
naphtha	64742-89-8	~45	100ppm-A,O
7. 2-ethoxy-			
butyl			
acetate	112-07-02	0.3	25ppm-D
8. Zinc			
dihydrogen			
phosphate	13598-37-3	None	None
9. Monosodium			
phosphate	7588-80-7	None	None
10. Phosphoric			
acid	7664-38-2	None	1 mg/m ³
11. Potassium			51
fluoride	7789-23-3	None	2.5 mg/m³ as F

"A = ACGiH TLV_O = OSHA_D = Du Pont internal limit.

#### Section III - Physical Data

Evaporation rate: Slower than	Vapor density: Heavier than
, ether	air
Solubility in water: Slight	Percent volatile by volume: 80-100%
Approximate boiling range: 103°F-545°F	Density: 6.9-9 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 chernical 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.

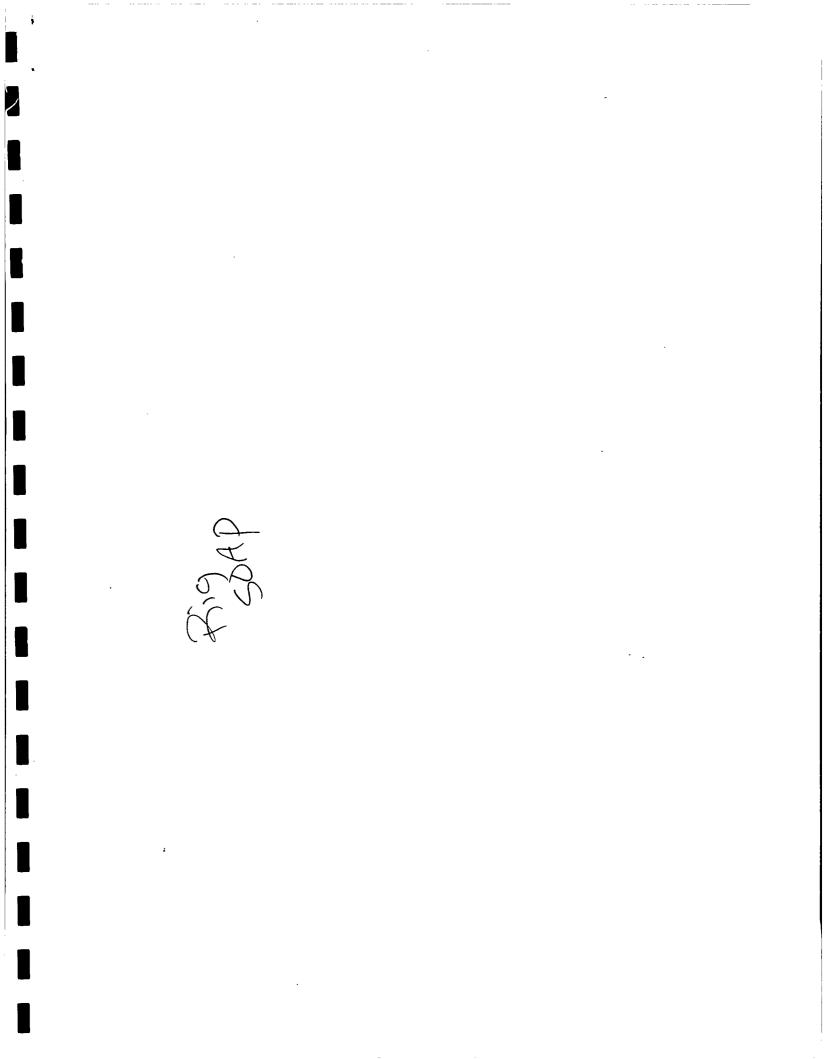
- Inhalation: May cause nose and throat irritation. If product contains ingredients #1-7, may also cause nervous system depression characterized by the following progressive steps: headache, dizziness. nausea, staggering gait, confusion, unconsciousness. Methylene chloride is an extreme irritant to the 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 quinea plos, 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



# MATERIAL SAFETY DATA SHEET

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<u></u>		MATERIA This MSDS complies with OSHA'S Haz	ard Communic	ation Standard	29 CFR 1910.1200 an	d OSHA Form	n 174		<u> </u>
			ID MANUFAC		NFORMATION				
NFPA Rating: Health-	2; Flammability-0; R	leactivity-0 ; Special-		HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-					
Supplier Name: Address:	WECHEM INC. 5734 Susitna Drive Harahan, LA 70123			PROPER SHIPPING NAME: Compounds, Cleaning Liquid, (Potassium Hydroxide), 8, NA 1760, PG II Identify (trade name as used on Label).HULK DEGREASER #1					
Date Prepared: 04/	20/95	Prepared By:Charito Kuylen		MSDS Nun	nber: 3350G	Rev	ision - 09/01/95		
Information Calls: (504	) 733-1152				NOTICE: J	Judgment E	lased on Indire	ct Test Data	
EMERGENCY RESPON	ISE NUMBER: 1-800-53				<u> </u>				
SECTION 1 - MATERIAL IDEN COMPONENTS-CHEMICAL NAMES AND COMMON NAMES			ERIAL IDENT		CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen
Hazardous Componer	nts 1% or greater; Carci	nogens 0.1% or greater)				III LIST	(ppm)	TLV (ppm)	Ref. Source
POTASSIUM HYDROX					1310-58-3	NO	N/A	2MG/M3	D
DIPOTASSIUM EDTA					2001-94-7	NO	NO	N/A	ס
	<u></u>	SECTION 2 - PH		T	ARACTERISTICS				
Boiling Point: 212 DEC					ity (H2O=1): 1.015 +/- 0				
	70 DEG. F (AEROSOL	.s) N/O		<u> </u>	re (Non-Aerosols)(mm		perature): N/D		
Vapor Density (Air =1)		<u></u>		Evaporation F Water Reactly	tate (VS H20): ABOUT	INE SAME			
Solubility in Water: CO				I TELEF TREACTIV		•••••			
Appearance and Odor: PB: 14	CLEAR, BLUE LIQU	UID WITE NO DISTINCT ODOR,						<u> </u>	
					AZARD DATA	1			
FLAMMABILITY as	per CPSC FLAME E	EXTENSION TEST (aerosols) N/D	A	uto Ignition N/	Temperature 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.)       EXTINGUISHER MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE, WATER.         CONCENTRATE NON-FLAMMABLE       SPECIAL FIRE FIGHTING PROCEDURES: NONE									
Unusual Fire & Explos	ion HazardsNONE								
		SECTIO	N 4 - REACTI	IVITY HAZAI	RD DATA				
STABILITY [X] ST.	ABLE [ ] UNSTABL	.E		HAZARDOUS	POLYMERIZATION (	] WILL {	X ] WILL NOT	DCCUR	
incompatibility (Mat. to	avoid): STRONG OXID	IZERS, ACIDS		Conditions to	Avoid:N/A				
Hazardous Decomposi	tion Products CARBON	DIOXIDE, CARBON MONOXIDE							
		SECTI	ON 5 - HEAL	TH HAZARD	DATA				
	PRIM	ARY ROUTES OF ENTRY: [ ] INHALATIO	N [X]INGES	TION [X] SP	IN ABSORPTION ()	IEYE []	NOT HAZARDOU	s	
ACUTE EFFECTS									,
Inhaiation: INEALATI	ON OF GENERATED	MISTS CAN CAUSE NASAL AND RES	PIRATORY I	IRRITATION	OR DAMAGE TO B	ESPIRATO	RY TRACT.		
Eye Contect:IRRITATIC	N AND BURNING.			Skin Contact:	CORROSIVE. IRRITAT	TON AND BU	RNING.		
ngestion:CORROSIVE	MATERIAL. HARMFUL	OR FATAL IF SWALLOWED			<u></u>				
CHRONIC EFFECTS:DE									
Medical Conditions Ge	nerally Aggravated by E	Exposure: MAY AGGRAVATE EXISTING EVE							
		······································	SENCY FIRST	AID PROCE					
		IUTES. SEEK MEDICAL ATTENTION.						<u> </u>	
		TER. IF IRRITATED, SEEK MEDICA		DN					
		TATE IF NECESSARY, GET MEDICAL ATTEN				<u></u>	······		
ngestion: DO NOT IND	UCE VOMITING. DRINK	TWO LARGE GLASSES OF WATER. GET IN SECTION 6 - CO			IVE MEASURES				
Respiratory Protection	(specify type):NONE R	EQUIRED UNDER NORMAL USE COND							
Protective Gloves: CHEMICAL RESISTANT, RUBBER, PVC Eye Protection: SAFETY GLASSES/GOGGLES									
entilation Requirement	ts: LOCAL EXHAUST								
Other Protective Clothi	ng & EquipmentFACE	SEIELD, APRON, BOOTS DEPENDIN	O ON EXTEN	T OF EXPO	SURE.				
lygionic Work Practice	S: WASE WITE SOA	P AND WATER BEFORE HANDLING FO	<b>.</b>						
		SECTION 7 • PREC	AUTIONS FO	OR SAFE HA	ANDLING AND USE				
Stene To Re Taken If M	steriat is Spilled Or Rel	eased:ABSORB WITE SUITABLE MEDI	נא.						
Vaste Disposel Methods: DISPOSE OF ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS.									
- <u></u>	STATESTORY OF ACC	ORDING TO LOCAL, STATE OR FED	ERAL REGUL	ATIONS.					
Waste Disposal Method	~ ~ ~ ~	ORDING TO LOCAL, STATE OR FED			FULLY.				

nical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] iARC Monograph (c] OSHA [d] Not Listed [e] Animal Data Only N/λ = NOT λVAILABLZ N/D = NOT DETERMINED

# MATERIAL SAFETY DATA SHEET

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This MSDS complies with OSHA'S Hazard Comm IDENTITY AND MANU			OSHA Form	174		
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special- Supplier Name: WECHEM INC.		HMIS Rating: Heath-3; Flammability-0; Reactivity-0; Personal Protection- PROPER SHIPPING NAME: Compounds, Cleaning Liquid, (Potassium Hydroxide), 8,				
Address: 5734 Susitna Drive Harahan, LA 70123		NA 1760, PG II Identity (trade name as used on label).HULK SYSTEM #1 COMPONENT A				
Date Prepared:04/13/95 Prepared By:Charito Kuylen	MSD	S Number: 3351G	Rev	islon - 09/01/95	i	
Information Calls: (504) 733-1152 EMERGENCY RESPONSE NUMBER: 1-800-535-5053		NOTICE: Ju	idgment B	ased on Indire	ct Test Data	
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hezardous 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	CHEMIC	AL CHARACTERISTICS				
Boiling Point: 214 DEG. F (IBP)	Speci	fic Gravity (H2O=1): 1.377 +/- 0.	01			
Vapor Pressure: PSIG @ 70 DEG. F (AEROSOLS): N/D	Vapor	Pressure (Non-Aerosols)(mm	ig and Tem	perature): N/D		
Yapor Density (Air =1): N/D	Evapo	oration Rate: (VS H20) ABOUT 1	HE SAME			
Solubility in Water: COMPLETE	Water	Reactive: NO				
Appearance and Odor:CLEAR, COLORLESS LIQUID WITH NO DISTINCT ODOR. PR: 14	•					
SECTION 3 - FIRE ANI	DEXPLO	SION HAZARD DATA				
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST (AEROSOLS): NA	Auto Ig	nition Temperature N/D	Flamma % LEL:		Air by % in Volu % UEL: N/A	/me:
FLASH POINT AND METHOD USED: NONE TO BOILING CONCENTRATE NON-FLAMMABLE	EXTIN	EXTINGUISHER MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE, WATER. SPECIAL FIRE FIGHTING PROCEDURES: NONE				
Unusual Fire & Explosion HazardsNONZ		•				
SECTION 4 - REA	ACTIVITY	HAZARD DATA				
STABILITY {X} STABLE { } UNSTABLE	HAZA	RDOUS POLYMERIZATION [	<u>) WILL [</u>	X ] WILL NOT	DCCUR	
Incompatibility (Mat. to avoid): STRONG OXIDIZERS, ACIDS	Cond	tions to Avoid:N/A				
Hazardous Decomposition ProductsCARBON DIOXIDE, CARBON MONOXIDE						
SECTION 5 - H	EALTH H	AZARD DATA				
PRIMARY ROUTES OF ENTRY: [ ]INHALATION [ X ] IN	NGESTION	[X] SKIN ABSORPTION	EYE [ ]	NOT HAZARDOU	5	
Inhalation: INHALATION OF GENERATED MISTS CAN CAUSE NASAL AND RESPIRATOR						,
Eye Contact: IRRITATION AND BURNING.	ISKING	Contect: CORROSIVE. IRRITATI	ON AND BU	KNING.		
Ingestion:CORROSIVE MATERIAL, HARMFUL OR FATAL IF SWALLOWED		<u></u>				
Medical Conditions Generally Aggravated by Exposure: MAY AGGRAVATE EXISTING EYE, SKIN, OR	R UPPER R	SPIRATORY CONDITION.				
EMERGENCY FI						
Eye Contact: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.						
Skin Contect:WASH WITH SOAP AND WATER. IF IRRITATED, SEEK MEDICAL ATTEN	NTION.					
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 PR	DTECTIVE MEASURES				
Respiratory Protection (specify type):NONE REQUIRED UNDER NORMAL USE CONDITIONS.						
Protective Gloves: CHEMICAL RESISTANT, RUBBER, PVC	Eye P	rotection: SAFETY GLASSES	GOGGLES			
Ventilation Requirements: LOCAL EXHAUST						
Other Protective Clothing & EquipmentFACE SHIELD, APRON, BOOTS DEPENDING ON ES	TENT OF	EXPOSURE.				
Hygienic Work Practices: WASE WITE SOAP AND WATER BEFORE HANDLING FOOD.						
SECTION 7 - PRECAUTION	S FOR S	AFE 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 RE	GULATIO	NS				
Precautions To Be Taken in Handling & Storage: WARNING: CORROSIVE LIQUID. HANDLE ALL CO	ONTAINERS	CAREFULLY.				
Sther Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Reed & follow label directions. We believe the statements, technical information and recommendations contained harein are reliable, but they are given without warranty or guarantee of any kind.						

We believe the statements, localized information and recommendations contained networks for making are given without * Chemical Listed as Carcinogen, ig (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

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	This MSDS complies with OSHA'S Hazard C	ommunication	Standard 29 CFR 1910.12	00 and OSH	IA Form 174		
	IDENTITY AND	MANUFACT	RER'S INFORMATION				
NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special-			HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-				
Supplier Name: Address:	WECHEM INC. 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: 04/1	19/95 Prepared By:CHARITO KUYLEN	MS	DS Number: 3352G	Rev	lsion - 09/01/95	;	
Information Calls: EMERGENCY RESI	(504) 733-1152 PONSE NUMBER: 1-800-535-5053		NOTICE: JUD	GMENT BA	SED ON INDIR	ECT TEST DAT	A
	SECTION 1 - MATER	RIAL IDENTIFIC	ATION AND INFORMATIO	N			
	EMICAL NAMES AND COMMON NAMES onents 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
SPECIFIC CHEMIC	AL IDENTITY IS BEING WITHHELD AS TRADE SECRET AS	PER CFR 191					
	SECTION 2 - PHY	SICAL/CHEMI	CAL CHARACTERISTICS				
Boiling Point:213	DEG. F (IBP)	Sp	cific Gravity (H2O=1):1.0	11 +/- 0.	01		
Vapor Pressure PS	IG @ 70 DEG. F (AEROSOLS): N/D	Va	or Pressure (Non-Aerosol	s)(mm Hg I	and Temperatur	•): N/D	
Vapor Density (Air	= 1): N/D	Ev	poration Rate(VS. H20): S	LOWER			
Solubility in Water:	COMPLETE	Wa	ter Reactive: NO				
Appearance and Oc PH: 7.3 +/- 0.5	dor: CLEAR, DARK BLUE LIQUID WITH CHARACTERISTIC	ODOR.					
	SECTION 3 - FI	RE AND EXPL	OSION HAZARD DATA			-	
FLAMMABILITY AS	PER CPSC FLAME EXTENSION TEST (AEROSOLS): NA	Auto	ignition Temperature N/A	Flamma % LEL:	bliity Limits in N/A	Air by % in Vol % UEL: N/A	ume:
FLASH POINT AND	METHOD USED : NONE TO BOILING (T.C.C.) DN-FLAMMABLE		TINGUISHER MEDIA:FOAN ECIAL FIRE FIGHTING PRO			ON DIOXIDE, W	ATER
Unusual Fire & Exp	plosion Hazards: NONZ						
	SECTION	4 - REACTIVIT	Y HAZARD DATA				
STABILITY [X]	STABLE [ ] UNSTABLE	НА	ZARDOUS POLYMERIZATI			LNOT OCCL	JR
	t. to avoid): STRONG OXIDIZERS, ACIDS		ditions to Avoid: N/A		• •		
	DOSITION Products: CARBON DIOXIDE, CARBON MONOXIDE						
		N 5 - HEALTH	HAZARD DATA				
	PRIMARY ROUTES OF ENTRY: [] INHALATION [X			[X]EYE	[]NOT HA	ZARDOUS	
ACUTE EFFECTS	· · · · · · · · · · · · · · · · · · ·						
Inhalation: INHALA	TION OF GENERATED MISTS CAN CAUSE NASAL AND RES	SPIRATORY I	RITATION OR DAMAGE TO	RESPIRA	TORY TRACT.		
Eye Contact: IRRIT	ATION AND BURNING.	Sk	n Contact: IRRITATION AN	D REDNES	s		
Ingestion:HARMFU	L OR FATAL IF SWALLOWED.						
CHRONIC EFFECTS	5: PROLONGED SKIN CONTACT MAY RESULT IN THE ABS DRY CONDITIONS.	ORPTION OF	POTENTIALLY HARMFUL	AMOUNTS.	MAY AGGRAV	ATE EXISTING	EYE, SKIN OR
Medical Conditions	Generally Aggravated by Exposure: EXISTING DERMATIT	1S.					
	EMERGE	NCY FIRST AI	PROCEDURES				
Eye Contact:FLUSH	WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENT	NON.					
Skin Contact: WASE	WITH SOAP AND WATER. IF IRRITATED, SEEK MEDICS	AL ATTENTIO	1.				
Inhalation:REMOVE	TO FRESH AIR. RESUSCITATE IF NECESSARY. GET MED	CAL ATTENT	ION.				
Ingestion: DO NOT	INDUCE VOMITING. DRINK TWO LARGE GLASSES OF WA	TER. GET IM	EDIATE MEDICAL ATTEN	TION.			
			ROTECTIVE MEASURES				
Respiratory Protect	tion (specify type): NONE REQUIRED UNDER NORMAL USE (	CONDITIONS.	· · · · · · ·				
Protective Gloves:	CHEMICAL RESISTANT/RUBBER	Ey	Protection: SAFETY GLA	SSES/GOG	GLES		
Ventilation Require	ments: LOCAL EXEAUST						
Other Protective Ci	othing & Equipment: FACE SHIELD, APRON, BOOTS DEPE	ENDING ON E	TENT OF EXPOSURE.				
Hygienic Work Prac	ctices: WASH WITH SOAP AND WATER BEFORE HANDLING	FOOD.					
	SECTION 7 - PRECA	UTIONS FOR	SAFE HANDLING AND USE	<u> </u>			
Steps To Be Taken II Material Is Spilled Or Released: ABSORB WITE SUITABLE MEDIUM.							
Waste Disposal Me	Waste Disposal Methods: DISPOSE OF ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS.						
Precautions To Be Taken In Handling & Storage:HANDLE ALL CONTAINERS CAREFULLY.							
	&/or Special Hazards: KEEP OUT OF REACH OF CHILDRE						
	e statements, technical information and recommendations us Carcinogen or Potential Carcinogen. [a] NTP [b] IARC M					or guarantee of	any kind.

N/D = NOT DETERMINED N/A = NOT AVAILABLE

MATERIAL This MSDS complies with OSHA'S Hazard Con		DATA SHEET Standard 29 CFR 1910.12	00 and OSH	IA Form 174		
DENTITY AND A	MANUFACTU	RER'S INFORMATION				
NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special-	НМ	IS Rating: Health-2; Fla	mmability-	0; Reactivity-	); Personal P	ratection-
Supplier Name: WECHEM INC. Address: 5734 Susitna Drive Harahan, LA 70123		DPER SHIPPING NAME: C ntity (trade name as used				TB
Date Prepared: 04/19/95 Prepared By:CHARITO KUYLEN	MS	DS Number: 3352G	Rev	lsion - 09/01/9	5	
Information Calls: (504) 733-1152 EMERGENCY RESPONSE NUMBER: 1-800-535-5053			GMENT BA	SED ON INDIRI	ECT TEST DAT	A
SECTION 1 - MATERIA	AL IDENTIFIC	ATION AND INFORMATIO	N			
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
SPECIFIC CHEMICAL IDENTITY IS BEING WITHHELD AS TRADE SECRET AS P	ER CFR 1910		L	<u> </u>	<u> </u>	
SECTION 2 - PHYS	CAL/CHEMIC	AL CHARACTERISTICS	. <u> </u>			
Boiling Point:213 DEG. F (IBP)	Spe	Specific Gravity (H2O=1):1.011 +/- 0.01				
Vapor Pressure PSIG @ 70 DEG. F (AEROSOLS): N/D	Var	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D				
Vapor Density (Air = 1): N/D	Eva	Evaporation Rate(VS. H20): SLOWER				
Solubility In Water: COMPLETE	Wa	Water Reactive: No				
Appearance and Odor: CLEAR, DARK BLUE LIQUID WITE CEARACTERISTIC ( PH: 7.3 */- 0.5	ODOR.					
SECTION 3 - FIRI	E AND EXPL	SION HAZARD DATA				
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST (AEROSOLS): N/A	Auto	Auto Ignition Temperature Flammability Limits in Air by % in Volume: N/A % LEL: N/A % UEL: N/A			ume:	
FLASH POINT AND METHOD USED : NONE TO BOILING (T.C.C.) CONCENTRATE NON-FLAMMABLE		TINGUISHER MEDIA:FOAI ECIAL FIRE FIGHTING PR			ON DIOXIDE, W	ATER
Unusual Fire & Explosion Hazards: ทอพษ						
SECTION 4	- REACTIVIT	Y HAZARD DATA				
STABILITY [X] STABLE [ ] UNSTABLE		HAZARDOUS POLYMERIZATION [ ] WILL [X] WILL NOT OCCUR				
Incompatibility (Mat. to avoid): STRONG OXIDIZERS, ACIDS	Cor	Conditions to Avoid: NA				
Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE						
SECTION	5 - HEALTH I	AZARD DATA				
PRIMARY ROUTES OF ENTRY: []INHALATION [X]	INGESTION	[X] SKIN ABSORPTION	[X]EYE	[]NOT HAT	LARDOUS	
ACUTE EFFECTS						

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*A division of Peat "T" Inc. MSDS Number: #2

I.	PRODUCT DESCRIPT	ION	JULY, 1990
Prc	duct Name:	PEAT SORB OIL ABSORBENT	
Ch	emical Synonyms:		
		NONE	
Ch	amical Family:		
		PEAT MOSS	
Em	ergency Telephone Number		
		(403) 436-1002	•

Hazard Rating Least	-	Slight 3	1 Moderate Extreme 4	2
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					
	MAY CAUSE SLIGHT IRRITATION WITH VERY				
1	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:	Toxic Data: ESTABLISHED				

## IV. PERSONAL PROTECTION INFORMATION

Ventilation:	ADEQUATE VENTILATION SHOULD BE AVAILABLE TO KEEP DUST CONCEN- TRATIONS 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

Boiling Point	Melting Point:	Vapor Pressure:				
VI. PHYSI	CAL DATA					
Note to Phy	te to Physician: SYMPTOMATIC TREATMENT					
	IF IRRITATION OR DISCOMFORT PERSISTS, CONSULT A PHYSICIAN.					
Skin:	WASH IRRITATED AREAS WITH MILD SOAP AND WATER					
Eyes:	FLUSH EYES WITH RUNNING WATER TO REMOVE PARTICLES.					
Ingestion:	DO NOT INDUCE	VOMITING.				
Inhalation:	REMOVE TO FRE	REMOVE TO FRESH AIR.				

N/A	N/A	N/A
Vapor Density: N/A	Solubility in H ₂ O: NOT SOLUBLE	Appearance, Odor. BROWN, FIBROUS, LOOSE
рН: 4 - 6	% Volatile Ly Weight: N/A	Evaporation Rate. N/A

## VII. FIRE & EXPLOSION HAZARDS

Flash Point & Method Used: N/A	Lower Flammable L N/A	limits in Air % by Volume:		
Auto Ignition Temperature:	500°F	260°C		
Extinguishing Method: US SU	E MEDIA NEEDI RROUNDING FI			
Special Fire Fighting Procedures & Precautions: STANDARD FIRE PROTECTION EQUIPMENT				
Unusual Fire & Explosion Ha WILL WICK PETROLEUM		TS ON OPEN FLAME		

#### VIII. REACTIVITY

Stability: STABLE	Hazardous Polymerization: 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.



Emergency Number (800)457-2022 or (415)233-3737



# **Material Safety Data Sheet**

# CHEVRON Torque Fluid

CPS226705

Page

EDDINS-WALCHER CO DELD LUBES PO BOX 1920 MIDLAND, TX 79702 5408360

MATERIAL ORDERED FOR: 1400 W BROADWAY HOBBS, NM 88240

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.

# CHEVRON Torque Fluid

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# 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

# CHEVRON Torque Fluid

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.

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COMBUSTION PRODUCTS:
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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.

Page 4 of 6

# 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%.

CHEVRON Torque Fluid

# 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	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: 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 ll=NJ RTK 12=CERCLA 302.4 15≈ACGIH STEL 13=MN RTK 14=ACGIH TLV 16=ACGIH Calculated TLV 17=OSHA TWA 18=OSHA STEL 21≈TSCA Sect 4(e) 19=Chevron TLV 20=EPA Carcinogen 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:

#### CHEVRON Torque Fluid

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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.



# 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 SEVERELY REFINED	 DISTILLATE > 70.0%	5 mg/m3 (mist) 10 mg/m3 (mist) 5 mg/m3 (mist)	ACGIH TWA ACGIH STEL OSHA PEL

Revision Number: 4Revision Date: 07/22/93MSDS Number: 004501NDA ~ No Data AvailableNA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (2400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804 CHEVRON Ultra-Duty Grease EP NLGI 2

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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	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	PEL - Permissible Exposure Limit
C - Ceiling Limit	CAS - Chemical Abstract Service Number
Al-5 - Appendix A Categories	() - 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

## CHEVRON Ultra-Duty Grease EP NLGI 2

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 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.

# 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.

## CHEVRON Ultra-Duty Grease EP NLGI 2

#### 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.

Revision Number: 4 Revision Date: 07/22/93 MSDS Number: 004501 NDA - No Data Available NA - Not Applicable

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Page

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# 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:

21=TSCA Sect 4(e) 01=SARA 313 11=NJ RTK 22=TSCA Sect 5(a)(e)(f)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 05=CA Prop 65-Repro Tox 15=ACGIH STEL 25=TSCA Sect 8(a) 26=TSCA Sect 8(d) 16=ACGIH Calc TLV 06=IARC Group 1 28=Canadian WHMIS 07=IARC Group 2A 17=OSHA PEL 29=OSHA CEILING 08=IARC Group 2B 19=Chevron TWA 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).

# CHEVRON Ultra-Duty Grease EP NLGI 2

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# **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.

Emergency Number (800)457-2022 or (510)233-3737



# **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.

## CHEVRON Automatic Transmission Fluid (DEXRON II)

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# 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

material below the recommended exposure standard.

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

## 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. CAUT	
drum or explosion may result.	

# CHEVRON Automatic Transmission Fluid (DEXRON II)

Page 4 of 7

# 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

100.0 % CHEVRON Automatic Transmission Fluid (DEXRON II)

CONTAINING

> 85.0 % DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC CAS64742525 5 mg/m3 mist ACGIH TLV l0mg/m3 mist ACGIH STEL 5mg/m3 mist OSHA TWA

DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC CAS64742536 5mg/m3 mist ACGIH TLV lOmg/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

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TLV - Threshold Limit ValueTWA - Time Weighted AverageSTEL - Short-term Exposure LimitTPQ - Threshold Planning QuantityRQ - Reportable QuantityCPS - CUSA Product CodeCC - Chevron Chemical CompanyCAS - 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: N

ARA 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

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=0SHA 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 63

# CHEVRON Automatic Transmission Fluid (DEXRON II)

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

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MATERIAL SAFE	IY DATA BULLETI	X	
1. FRODUCT AND COMPANY IDENTIFICATIO	)N		
			E: 06/03/94
PRODUCT NAME: MOBIL REGULAR 30 SUPPLIER: MOBIL OIL CORP. PRODUCTS AND TECHNOLOGY DE 3225 GALLOWS RD. FAIRFAX, VA 22037		FRUVAL DAI	
24 - Hour Emergency (call collect): Product and MSDS Information: CHEMTREC:	609-737-4411 800-662-4525 800-424-9300	703-849- 202-483-	3265 761 <del>6</del>
2. COMPOSITION/INFORMATION ON INGREE	DIENTS		
INGREDIENTS CONSIDERED HAZARDOUS TO This product is not formulated to exposure limits established by reg hazardous to health as defined by Substances/Preparations Directives analysis of the ingredients.	contain ingredi ulatory agencie the European Un	s. It is a lion Danger	aot ovs
See Section 8 for exposure limits (	(if applicable).		
3. HAZARDS IDENTIFICATION			,
US OSHA HAZARD COMMUNICATION STANDAR with OSHA 29 CFR 1910.1200 and EFFECTS OF OVEREXPOSURE: No signific EMERGENCY RESPONSE DATA: Brown Liqui	determined not ant effects exp	to be haza: ectad.	
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4. FIRST AID MEASURES			

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i.	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 spille away from exposure. Prevent runoff from fire control or dilution from entering streams, severs, 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. NPPA HAZARD ID: Health: O, Flammability: 1, Reactivity: O HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

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.. Mobil

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.

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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.

MOBIL REGULAR 30

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| 8. EXPOSURE CONTROLS/PERSONAL PROTECTION | | | | |
|---|-----|--|--|--|
| # # = # = # # # # # # # # # # # # # # # | | | | |
| | | | | |
| 9. PHYSICAL AND CHEMICAL PROPERTIES | | | | |
| Typical physical properties are given below. Consult Product Data Shi
for specific details.
APPEARANCE: Liquid
COLOR: Brown
ODOR: Mild
ODOR THRESHOLD: NA
pH: NA
BOILING FOINT C(F): > 316(600)
MELTING POINT C(F): NA
FLASH FOINT C(F): > 210(410) (ASTM D-93)
FLAMMABILITY: NA
AUTO FLAHMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: < 0.1
VAPOR DENSITY: > 2.0
EVAFORATION 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 FOINT C(F): -12(10)
FREEZING POINT C(F): NE | ret | | | |

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

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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)

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MOBIL REGULAR 30

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---SENSITIZATION (SUMMARY)----Representative Mobil formulations have not caused skin sensitization in guines 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 ail 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.

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| 15. REGULATORY INFORMATION | | *************************************** | | | |
|---|---|--|--|--|--|
| Governmental Inventory Status: All co
EINECS/ELINCS. | mponents comply | with TSCA, and | | | |
| EU Classification and Labeling: EU la | beling not requ | ired. | | | |
| U.S. Superfund Amendments and Reauthor
This product contains no "EXTREMELY | FIZETION ACT (SA
HAZARDOUS SUBS | NRA) Title III:
TANCES". | | | |
| SARA (311/312) REPORTABLE HAZARD CA | TEGORIES; None. | | | | |
| This product contains no chemicals reportable under
SARA (313) toxic release program. | | | | | |
| The following product ingredients are
CHEMICAL NAME | CAS NUMBER | ists below:
LIST CITATIONS | | | |
| ZINC (ELEMENTAL ANALYSIS) (0.05%)
PHOSPHORODITHOIC ACID, 0,0-DI
C1-14-ALKYL ESTERS, ZINC SALTS (2:
1) (ZDDP) (0.58%) |
7440-66- 6
68649-42-3 | | | | |
| REGULATORY LI | | | | | |
| 1 - ACGIH ALL 6 - IARC 1 11 - TS | CA 4 17 = CA
CA 5a7 18 = CA | $\begin{array}{rrrr} P65 & 22 = MI & 293 \\ RTK & 23 = MN & RTK \end{array}$ | | | |
| 2 = ACGIH A1 7 = IARC 2A 12 = TS
3 = ACGIH A2 8 = IARC 2B 13 = TS | CA 5e 19 = FL | RTK 24 = NJ RTK | | | |
| 4 = NTP CARC $9 = OSHA CARC$ $14 = TS$ | CA 6 20 = 1L | \mathbf{K} is \mathbf{Z} \mathbf{Z} = $\mathbf{F}\mathbf{A}$ \mathbf{K} is | | | |
| 5 = NTP SUS 10 = OSHA Z 15 = TS | CA 125 21 - LA | RTK 26 - RI RTK | | | |
| Code key: CARC = Carcinogen; | SUS - Suspecter | 1 Carcinogen | | | |

MOBIL REGULAR 30

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16. OTHER INFORMATION

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CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

USE: AUTOMOTIVE ENGINE OIL

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NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

See container label for ingredient information.

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.



Material Safety Data Sheet

Page 1 of 8

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)
10 mg/m3 (mist)
5 mg/m3 (mist) | ACGIH TWA
ACGIH STEL
OSHA PEL |
| The BASE OIL may be a mixtu
CAS 64741895, CAS 64741964
CAS 64742536, CAS 64742547 | , CAS 64741975 | 5, CAS 64742014, CA | S 64742525, |

ADDITIVES INCLUDING THE FOLLOWING < 30.0%

Revision Number: 2Revision Date: 09/01/94MSDS Number: 005602NDA - No Data AvailableNA - 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 CHEVRON DELO 400 Multigrade SAE 15W-40

ZINC ALKYL DITHIOPHOSPHATE Chemical Name: PHOSPHORODITHIOIC ACID,0,0-DI-Cl-14-ALKYL ESTERS, ZINC SALT CAS68649423 < 1.6%

HEXANE

| Chemical Name: HEXANE | | | |
|-----------------------|--------|------------|-----------------|
| CAS110543 | < 0.1% | 50 ppm | ACGIH TWA |
| | | 3500 mg/m3 | ACGIH STEL |
| | | 1800 mg/m3 | OSHA PEL |
| | | 1 LBS | 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 | TWA - Time Weighted Average |
|----------------------------------|--|
| STEL - Short-term Exposure Limit | TPQ - Threshold Planning Quantity |
| RQ - Reportable Quantity | PEL - Permissible Exposure Limit |
| C - Ceiling Limit | CAS - Chemical Abstract Service Number |
| Al-5 - Appendix A Categories | () - Change Has Been Proposed |

3. HAZARDS IDENTIFICATION

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,

Revision Number: 2 Revision Date: 09/01/94 MSDS Number: 005602 NDA - No Data Available NA - Not Applicable

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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:

E

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.

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

| NA |
|--|
| Soluble in hydrocarbon solvents; insoluble in water. |
| 0.89 @ 15.6/15.6C |
| NA |
| 14.6 cSt @ 100C (Min.) |
| |
| 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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(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

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects: YES2. Delayed (Chronic) Health Effects: NO3. Fire Hazard:NO4. Sudden Release of Pressure Hazard: NO

5. Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

| ll=NJ RTK | 22=TSCA Sect 5(a)(2) |
|-------------------------|--|
| 12=CERCLA 302.4 | 23=TSCA Sect 6 |
| 13=MN RTK | 24=TSCA Sect 12(b) |
| 14=ACGIH TWA | 25=TSCA Sect 8(a) |
| 15=ACGIH STEL | 26=TSCA Sect 8(d) |
| 16=ACGIH Calc TLV | 27=TSCA Sect 4(a) |
| 17=OSHA PEL | 28=Canadian WHMIS |
| 18=DOT Marine Pollutant | 29=OSHA CEILING |
| 19=Chevron TWA | 30=Chevron STEL |
| 20=EPA Carcinogen | |
| | 12=CERCLA 302.4
13=MN RTK
14=ACGIH TWA
15=ACGIH STEL
16=ACGIH Calc TLV
17=OSHA PEL
18=DOT Marine Pollutant
19=Chevron TWA |

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,0,0-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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condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



Material Safety Data Sheet

Page 1 of 7

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON DELO 400 SAE 40

PRODUCT NUMBER(S): CPS235120 CPS238053

COMPANY IDENTIFICATION

EMERGENCY TELEPHONE NUMBERS

Chevron USA Products Company Environmental, Safety, and Health Room 2900 575 Market St. San Francisco, CA 94105-2856 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
SEVERELY REFINED | DISTILLATE
> 80.0% | 5 mg/m3 (mist)
10 mg/m3 (mist)
5 mg/m3 (mist) | ACGIH TWA
ACGIH STEL
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 (2400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804 CHEVRON DELO 400 SAE 40

ZINC ALKYL DITHIOPHOSPHATE Chemical Name: PHOSPHORODITHIOIC ACID,0,0-DI-Cl-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 | TWA - Time Weighted Average |
|----------------------------------|--|
| STEL - Short-term Exposure Limit | TPQ - Threshold Planning Quantity |
| RQ - Reportable Quantity | PEL - Permissible Exposure Limit |
| C - Ceiling Limit | CAS - Chemical Abstract Service Number |
| Al-5 - Appendix A Categories | () - Change Has Been Proposed |

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE:

ADD"

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:

Revision Number: 3 Revision Date: 09/27/94 MSDS Number: 005600 NDA - No Data Available NA - Not Applicable

2 of 7

Page

| CHEVRON DELO 400 SAE 40 | Page 3 of 7 |
|---|-------------------|
| No first aid procedures are required. However, as a power of the second | |
| No first aid procedures are required. As a precaution thoroughly with soap and water. Remove and wash contained | - |
| INGESTION: | minated clothing. |
| If swallowed, give water or milk to drink and telephone
advice. Consult medical personnel before inducing vom | iting. If medical |
| advice cannot be obtained, then take the person and pro
the nearest medical emergency treatment center or hosp | |
| INHALATION: | |
| If respiratory discomfort or irritation occurs, move the air. See a doctor if discomfort or irritation continued | |

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

MSDS Number: 005600 **Revision Number: 3** Revision Date: 09/27/94 NA - Not Applicable NDA - No Data Available

CHEVRON DELO 400 SAE 40

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.

Page

4 of 7

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 Soluble in hydrocarbon solvents; insoluble in water. SOLUBILITY: SPECIFIC GRAVITY: 0.89 @ 15.6/15.6C EVAPORATION RATE: NA 14.2 cSt @ 100C (Min.) VISCOSITY: 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,

CHEVRON DELO 400 SAE 40

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

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NO

NO

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: 2. Delayed (Chronic) Health Effects: NO

- 3. Fire Hazard:
- Sudden Release of Pressure Hazard: NO 4.
- Reactivity Hazard: 5. · 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 NA - Not Applicable NDA - No Data Available

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CHEVRON DELO 400 SAE 40

lists indicated.

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PHOSPHORODITHIOIC ACID,0,0-DI-Cl-14-ALKYL ESTERS, ZINC SALTS
is found on lists: 01,11,
SEVERELY REFINED PETROLEUM DISTILLATE
is found on lists: 14,15,17,
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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.

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APPENDIX C

Sample Chain-of-Custody Forms

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| | | Signature | | | Date / Time Received by: (Signature | | | | hed b | | | | Date / Time Received by: (Signature) | · · · |

Date / Time Received for Laboratory by: Remarks . ----- Date / Time Relinquished by: (Signature) ··, · Airbill Number 2406 395 Shipped by:

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

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APPENDIX D

Analytical Data



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

MEMORANDUM

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

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F.

ENT SEC.

FROM:

Douglastripka, Chief (6MD-H) Houston Laboratory Management Division

TO:

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

Bill Rhotenberry (6EN-HX) ATTN:

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





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

December 30, 1996

JAN'S 1997

MEMORANDUM

SUBJECT:

FROM:

Douglas Lipka, Chief (6MD-H) Houston Laboratory Management Division

Notice of Intent to Dispose of Samples

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 | |



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 | | DATE/TIME | | RESULT | S |
|-------------|-------------|---------------|---------------|--------|------------------|
| NUMBER | STATION ID | COLLECTED | IGNITABILITY* | pH² | 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 | |
| 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 AGENCE REGION 6 HOUSTON BRANCH 10625 FALLSTONE RD. HOUSTON, TEXAS 77099 December 30, 1996 HAZARD STE C.

MEMORANDUM

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

FROM:

DouglastLipka, 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



PAGE I OF 3 ATTACHMENTS 2

US EPA HOUSTON BRANCH

| SAMPLE #:
SOURCE: | 7GBXER01-13
NEW MEXICO OI
COMPANY INITI | | DATE
RECEIVED: | 21 -N ov-96 |
|----------------------|---|-----------|-------------------|--------------------|
| TYPE: | AQ TCLP | | DATE | |
| ANALYSTS: | RC, LC, BS | | REPORTED: | 19-Dec-96 |
| | · | | ····· | |
| | | DETECTION | | |
| PARAMETER | CONCENTRATION | LIMIT <= | | UNITS |
| ARSENIC | 0.004 | 0.003 | <u></u> | MG/L |
| BARIUM | 0.004 | 0.003 | | MG/L |
| CADMIUM | ND | 0.005 | | MG/L |
| CHROMIUM | ND | 0.003 | | MG/L |
| LEAD | ND | 0.01 | | MG/L |
| MERCURY | ND | 0.0002 | | MG/L |
| SELENIUM | ND | 0.002 | | MG/L |
| SILVER | ND | 0.003 | | MG/L |
| | ND | 0.01 | | MG/II |

ND: LESS THAN DETECTION LIMIT

PAGE 2 OF 3 ATTACHMENTS 2

US EPA HOUSTON BRANCH

| SAMPLE #:
SOURCE: | 7GBXER01-14
NEW MEXICO OI
COMPANY INITI | | DATE
RECEIVED: | 21-Nov-96 |
|----------------------|---|-----------|-------------------|-----------|
| TYPE:
ANALYSTS: | AQ TCLP
RC, LC, BS | | DATE
REPORTED: | 19-Dec-96 |
| | | | | |
| | | DETECTION | | |
| PARAMETER | CONCENTRATION | 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

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PAGE 3 OF 3 ATTACHMENTS 2

US EPA HOUSTON BRANCH

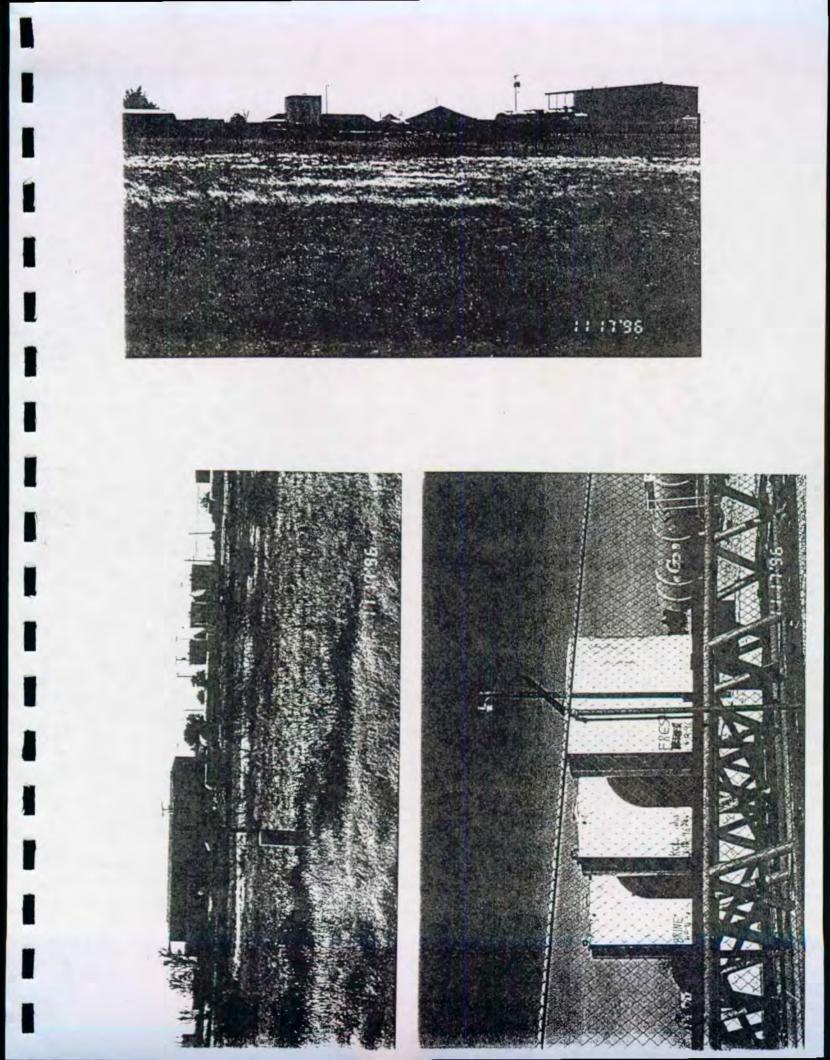
| SAMPLE #:
SOURCE: | 7GBXER01-17
NEW MEXICO OI
COMPANY INITI | | DATE
RECEIVED: | 21-Nov-96 |
|---------------------------------------|---|-----------|-------------------|-----------|
| TYPE: | AQ TCLP | | DATE | |
| ANALYSTS: | RC, LC, BS | | REPORTED: | 19-Dec-96 |
| | | | | |
| · · · · · · · · · · · · · · · · · · · | | DETECTION | | |
| PARAMETER | CONCENTRATION | 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

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Photograph Documentation



| Photo #: | R_0P_1 | City: | Hobbs, NM |
|-----------|----------------------|-------|-----------|
| | 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 |
|------------|----------------|-------|----------|
| I HOLO DJ. | | | |

chloride water, and fresh water tanks are shown. **Photo By:** Wallace O'Rear **Date:** 11/17/96

Direction Facing: North
Description: Lucky Service's brine water, potassium

Photo #:R\_0P\_3City:Ilobbs, NMSite:Lucky Services, Inc.Time:1016

Photo #:R\_0P2City:Hobbs, NMSite:Lucky Services, Inc.Time:1012Direction Facing:South

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Description: The north half of Lucky Service's yard is shown close-up.

Photo By: Wallace O'Rear Date: 11/17/96

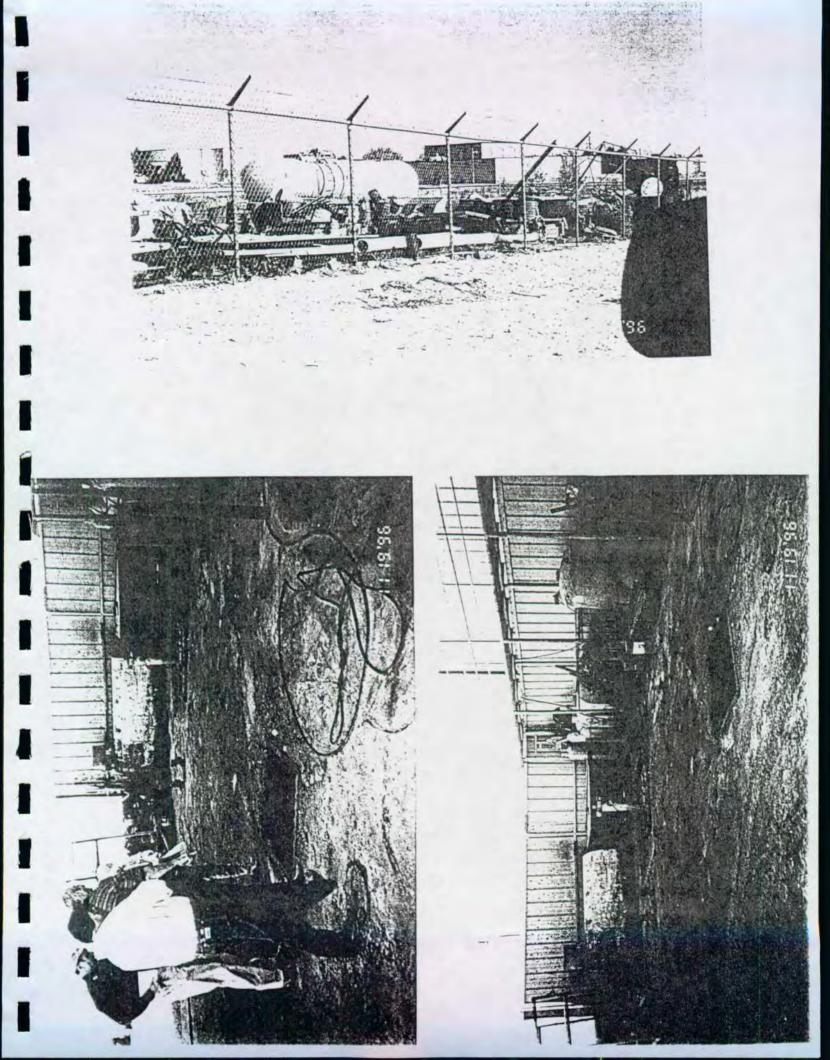


Photo #: R_0P_4 City:Hobbs, NMSite:Lucky Services, Inc.Time:1018Direction Facing:NorthInc.Inc.

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 #:R<sub>1</sub>P2City:I lobbs, NMSite:Lucky Services, Inc.Time:1441Direction Facing:SouthDescription: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 #:R<sub>1</sub>P<sub>1</sub>City:I lobbs, NMSite:Lucky Services, Inc.Time:1440Direction 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

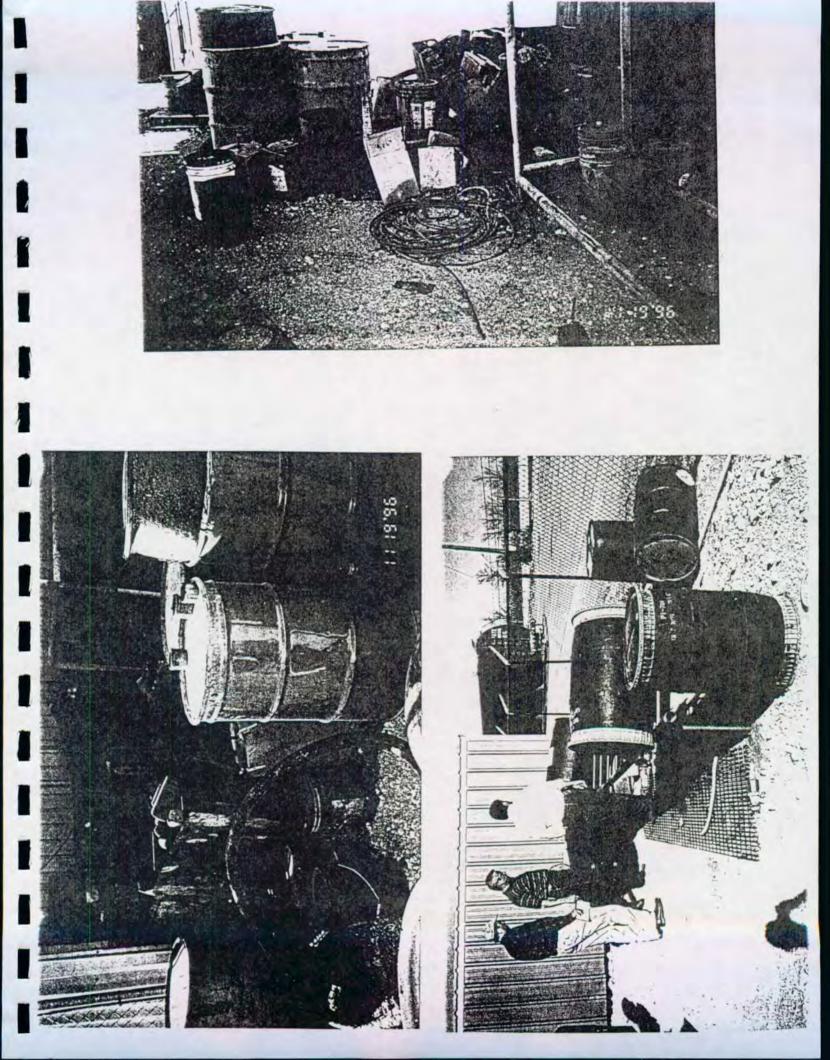


Photo #: R_1P_3 City: Hobbs, NM Lucky Services, Inc. Time: Site: 1449 **Direction Facing:** East

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

Site: are in use, are stored on a steel rack, as shown. **Direction Facing: North** Photo #: Description: Fifty-five gallon drums containing soap that R<sub>1</sub>P<sub>5</sub> Lucky Services, Inc. Time: City: 1452 Hobbs, NM

Photo By: Wallace O'Rear

Date: 11/19/96

Site: **Direction Facing:** Southeast Photo #: R_1P_4 Lucky Services, Inc. Time: City: 1450 Hobbs, NM

maintenance area.

collection area located in the northeast corner of the

Description: The photo shows a close-up of the trash

Photo By: Wallace O'Rear Date: 11/20/96

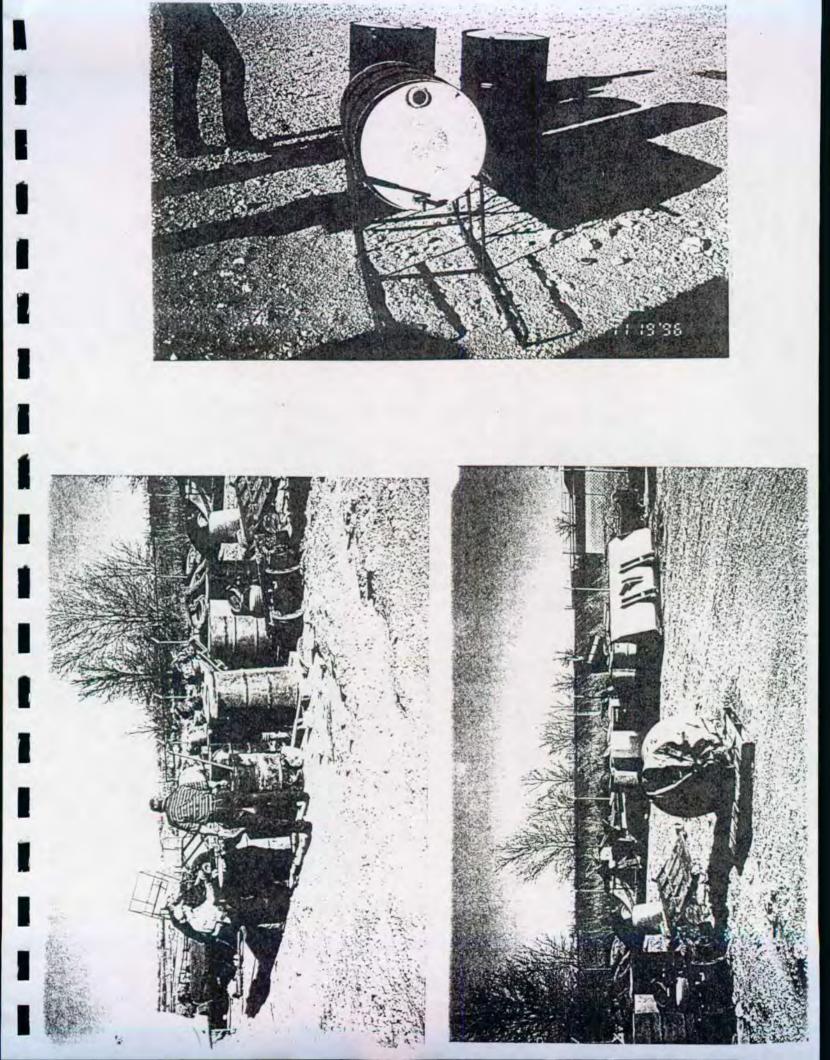


Photo #: R_1P_6 City: Hobbs, NM Site: Lucky Services, Inc. Time: 1453 **Direction Facing:** West

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

Site: are being stored to the south of the drums in Photo #**Direction Facing:** East Photo #: Description: Additional waste (empty) 55-gallon drums R_1P_8 Lucky Services, Inc. Time: City: 1456 Hobbs, NM

Photo By: Wallace O'Rear Date: 96/61/11 R_1P_7 , as shown.

Photo #: R_1P_7 Lucky Services, Inc. Time: City: 1455 Hobbs, NM

Site:

Direction Facing: Northeast

are picked-up for disposal. area is shown. This is where drums are stored until they Description: The waste (empty) 55-gallon drum storage

Photo By: Wallace O'Rear Date: 11/19/96

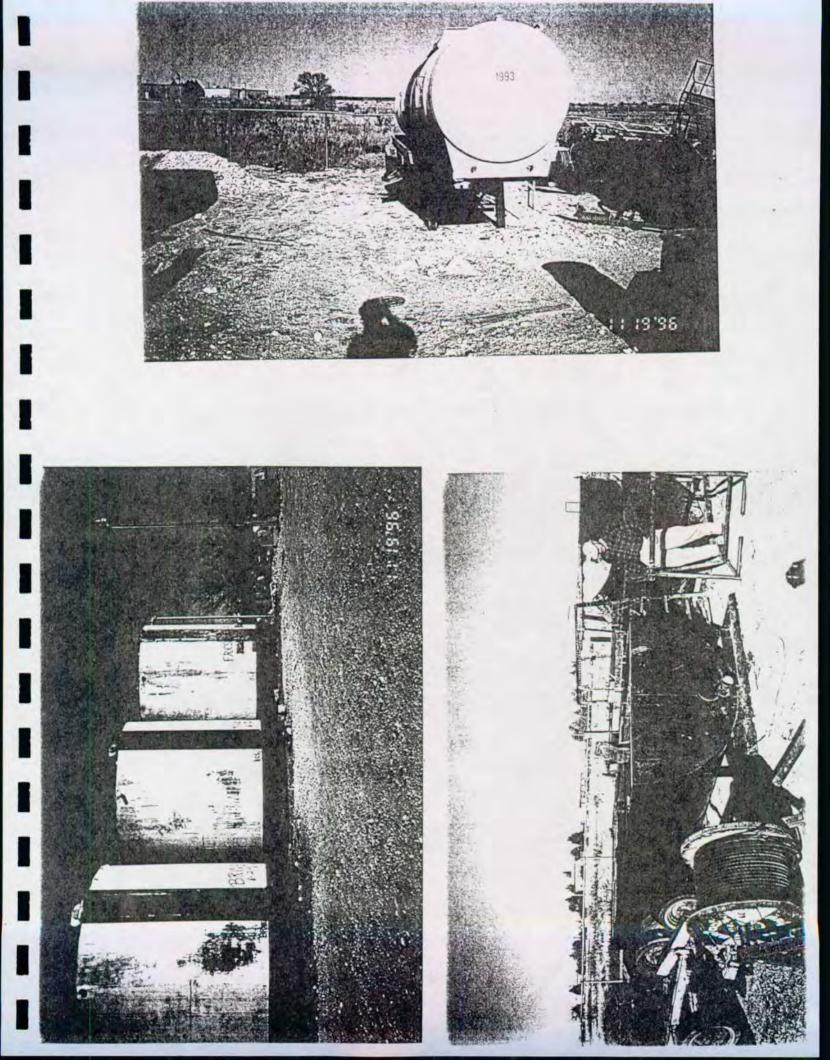


Photo #:R1P9City:Hobbs, NMSite:Lucky Services, Inc.Time:1459Direction Facing:NorthItem (Second Content for Con

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

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Description: The half, frac tank that contained production water, during the site visit, is shown.

Photo By: Wallace O'Rear

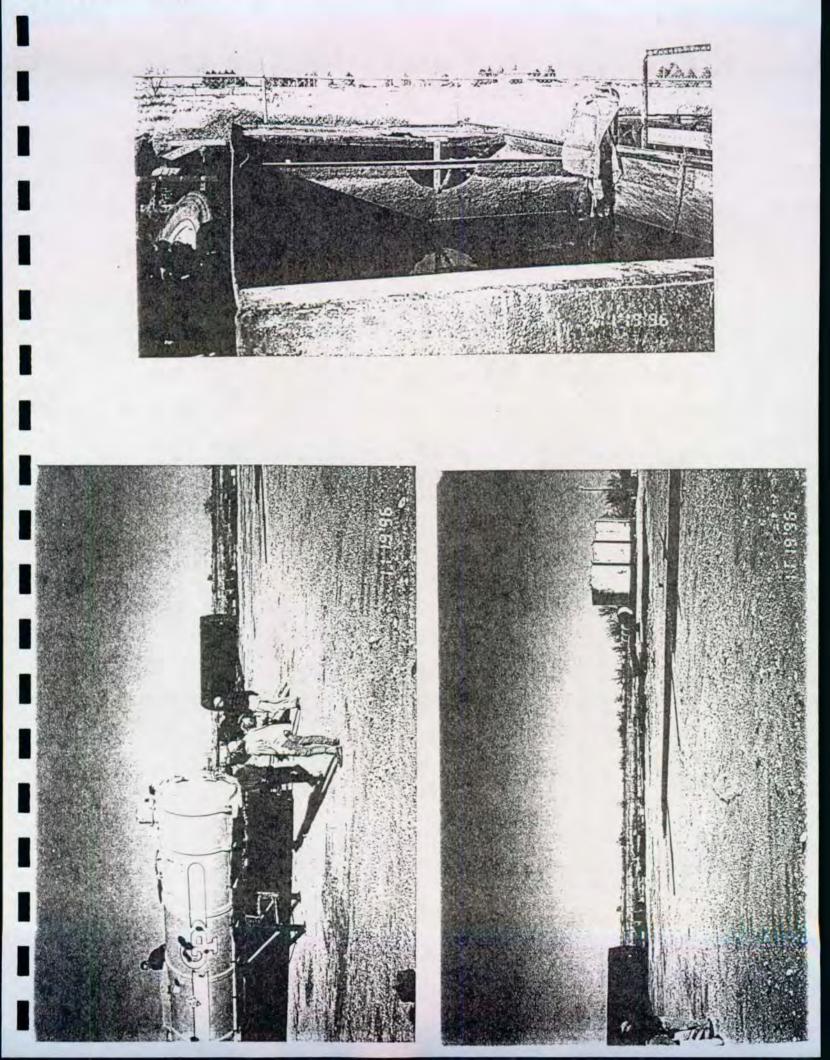
Date: 11/19/96

Photo #:R<sub>1</sub>P<sub>11</sub>City:Hobbs. NMSite:Lucky Services, Inc.Time:1506Direction Facing:Northwest

Photo #: R<sub>1</sub>P<sub>10</sub> **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



City: Hobbs, NM Photo #: $R_{1}P_{12}$ Lucky Services, Inc. Time: 1507 Site: **Direction Facing:** West

Description: Photo of the half frac tank showing the production water that it contained.

11/19/96 Photo By: Wallace O'Rear Date:

Site: Direction Facing: Northeast Photo #: northeastern portion of Lucky Service's facility. Description: Photo showing an overview of the Site: Photo By: Wallacc O'Rear **Direction Facing:** East Photo #: Description: Photo showing an overview of the northern portion of Lucky Service's facility. Photo By: Wallace O'Rear R_1P_{14} Lucky Services, Inc. R<sub>1</sub>P<sub>13</sub> Lucky Services, Inc. Time: City: Time: Date: 11/19/96 Date: 11/19/96 1508 Hobbs, NM 1507

City:

Hobbs, NM

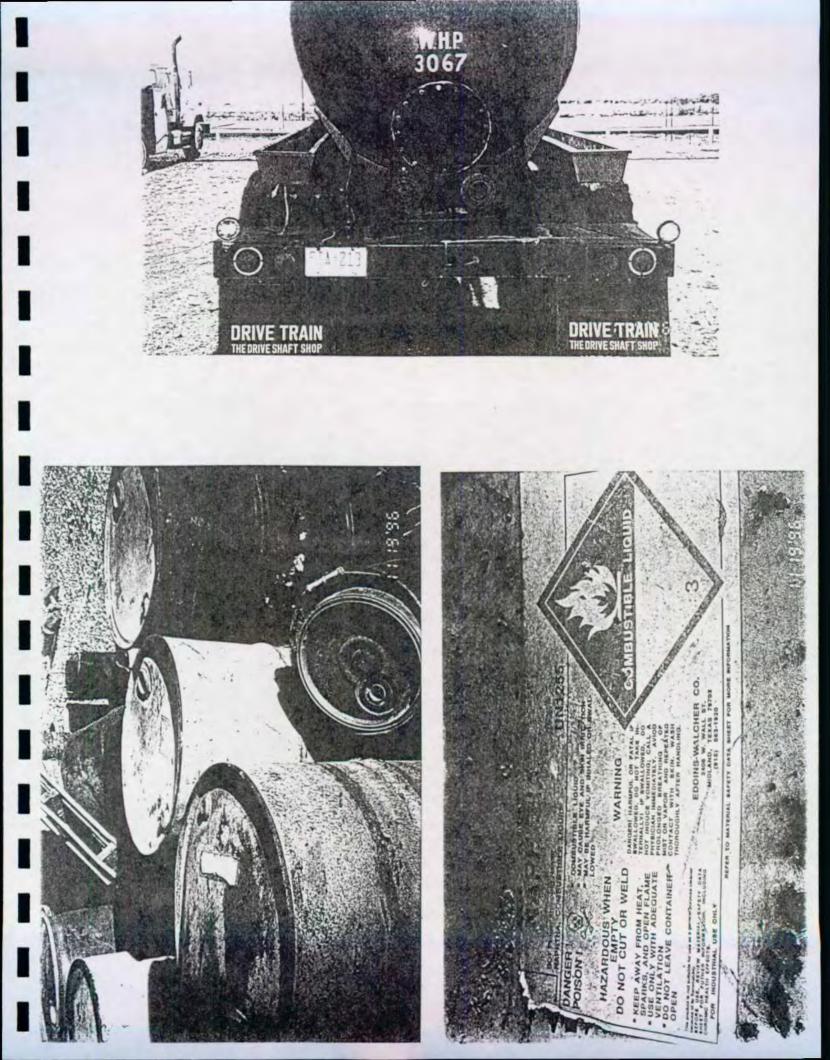


Photo #:R1P15City:Hobbs, NMSite:Lucky Services, Inc.Time:1511Direction Facing:South

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

center) located in the Waste Drum Storage Area had a the mint green drum, located in the Waste Drum Storage Photo By: Wallacc O'Rear NAPHTHA label affixed to the top of the drum. Description: One of the drums (the mint green one in the Direction Facing: North Site: Area, that is shown in Photo $\# R_1 P_{16}$. Description: The NAPLITHA label affixed to the top of **Direction Facing:** Down Photo #: R_1P_{17} Lucky Services, Inc. Date: Time: City: 11/19/96 1514 Hobbs, NM

Photo By: Wallace O'Rear

Date:

96/61/11

Site:

Lucky Services, Inc.

City: Time:

1512

Hobbs, NM

Photo #:

 R_1P_{16}

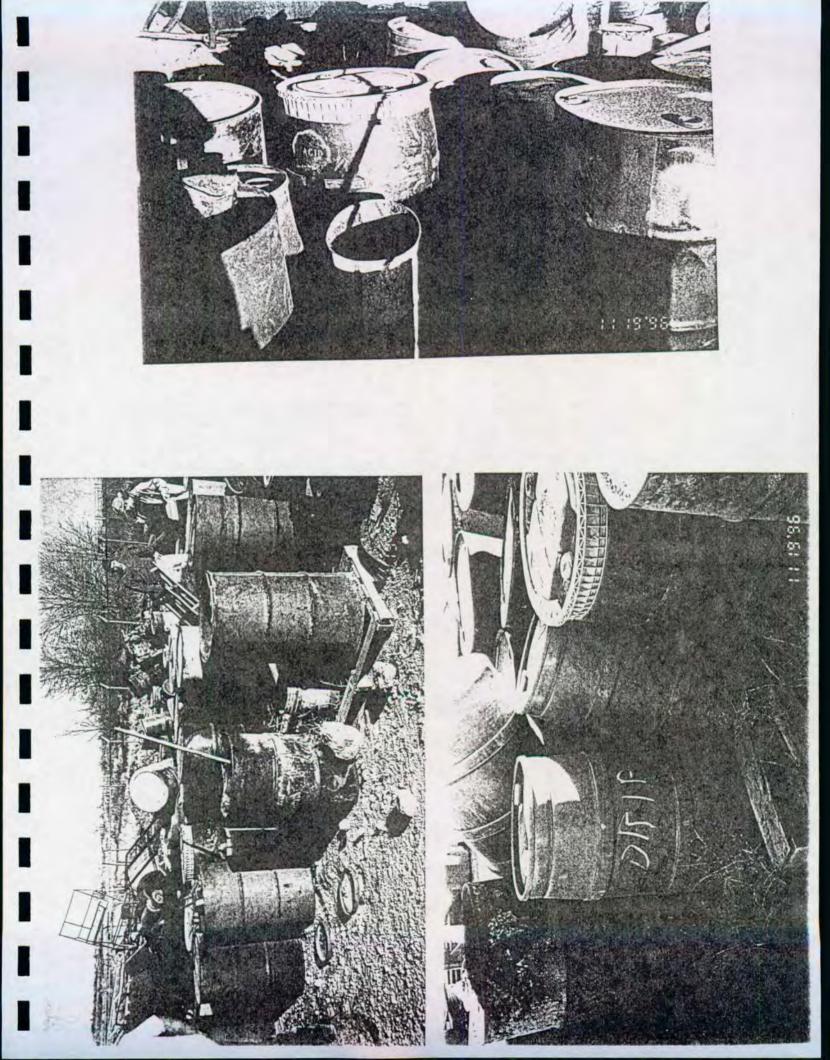


Photo #:R1P18City:Hobbs, NMSite:Lucky Services, Inc.Time:1515Direction Facing:NorthInc.Inc.

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

Site:

Photo #:

 R_1P_{19}

Lucky Services, Inc.

Time:

1516

City:

Hobbs, NM

Direction Facing: Northcast

Description: Close-up of the drums located in the Waste

Drum Storage Area.

Photo By: Wallace O'Rear

Date:

11/19/96

Photo #:R<sub>1</sub>P<sub>20</sub>City:Hobbs, NMSite:Lucky Services, Inc.Time:1517Direction Facing:EastDescription:Drums next to the drum labeled ACID (the
blue poly one in the center), located in the Waste Drum

Photo By: Wallace O'Rear Date: 11/19/96

Storage Area, was labeled DRIP on the side of the drum

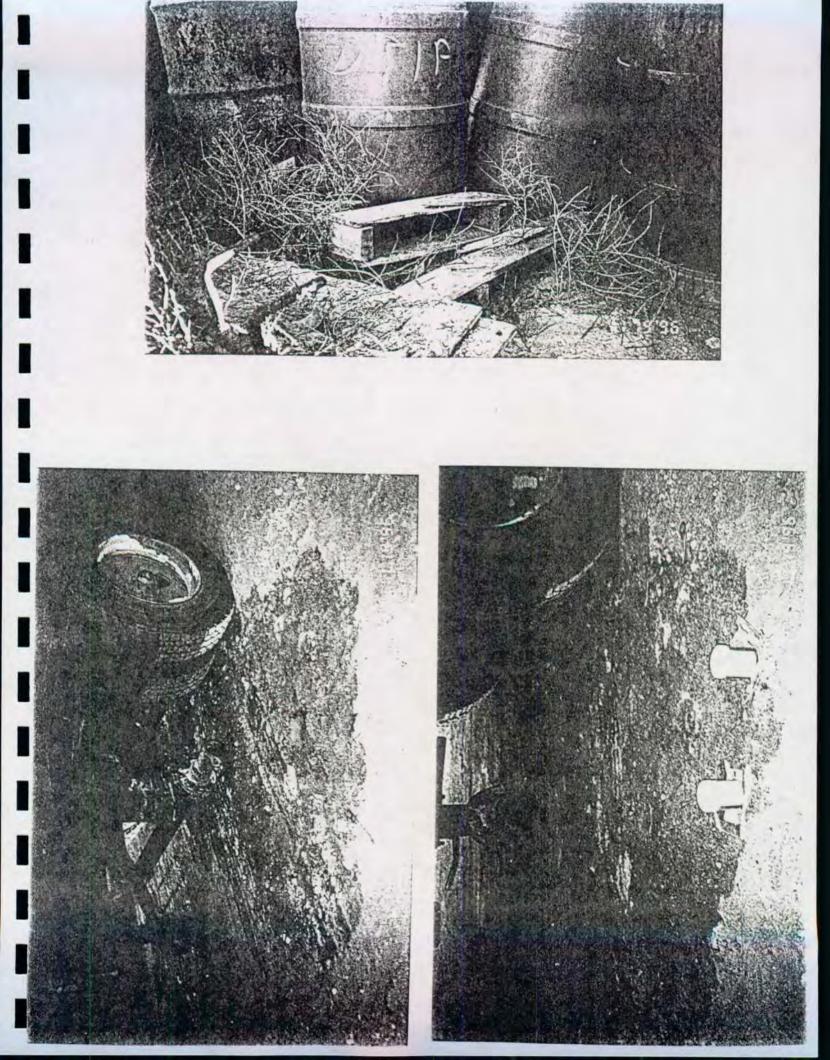


Photo #:R1P21City:Hobbs, NMSite:Lucky Services, Inc.Time:1518Direction Facing:Down

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

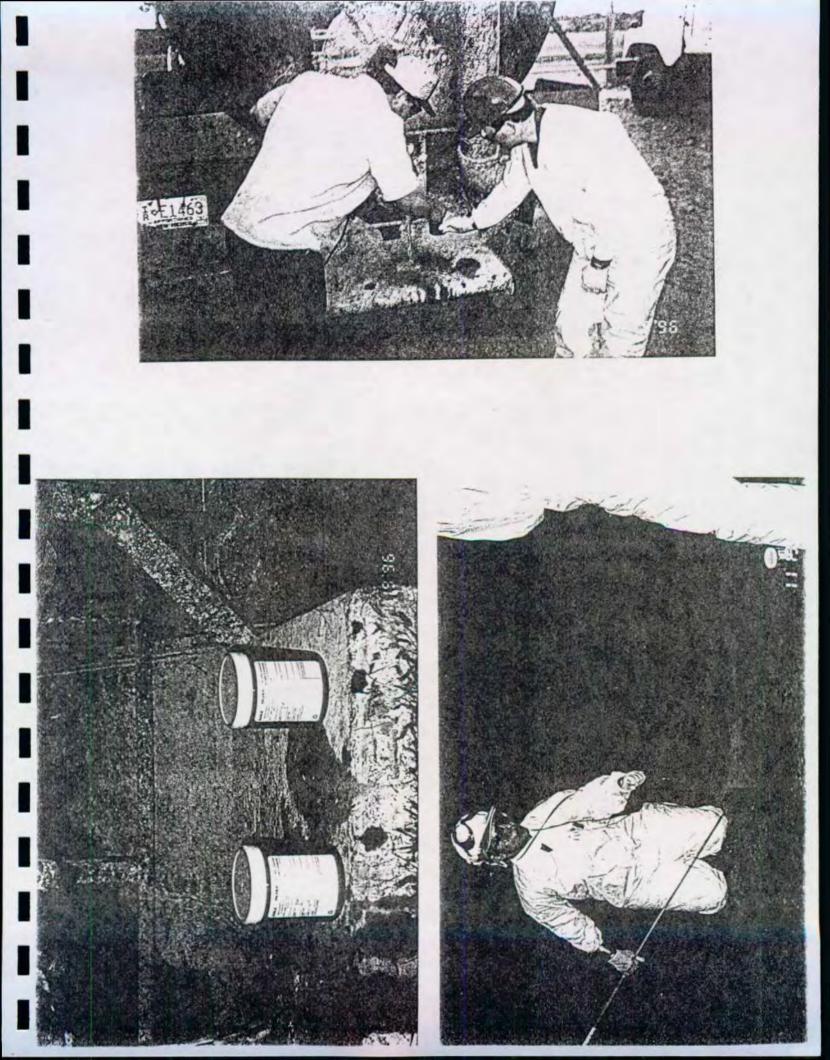
Photo #: R<sub>1</sub>P<sub>23</sub> City: Hobbs, NM
Site: Lucky Services, Inc. Time: 1645
Direction Facing: Down and Northwest
Description: Close-up of sampling point for Sample No. LS-01WL-01 with the filled sample bottles in the foreground.

Photo By: Wallace O'Rear Date: 11/19/96

Photo #:R<sub>1</sub>P<sub>22</sub>City:Ilobbs, NMSite:Lucky Services, Inc.Time:1640Direction 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.

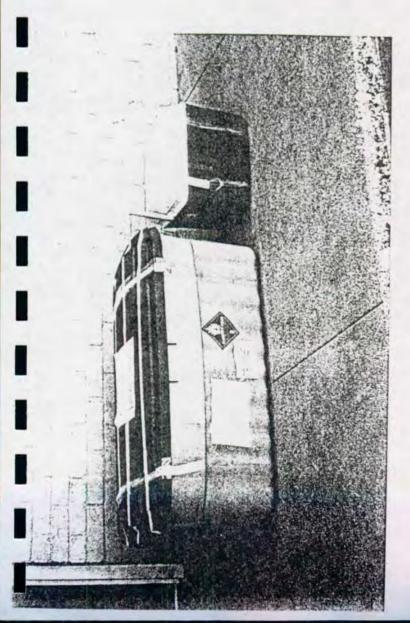
Photo By: Wallace O'Rear Date: 11/19/96



| | Photo #:
Site:
Direction | R <sub>1</sub> P <sub>24</sub>
Lucky Services, Inc.
Facing: Southwest | City:
Time: | Hob
165 | bbs, NM
0 | |
|---|--|---|----------------|---------------------------|--|--|
| | Description: Sample No. LS-02-WL-01, taken from the Vac Truck with License Plate No. E1463. | | | | | |
| | Photo By | v: Wallace O'Rear | Date: | 11/ | 19/96 | |
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Sit
Di | | | Ph | Dese
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foreg | Ph
Sir
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| Descriptio
LS-03-WL
Photo By: | Photo #:
Site:
Direction | | | Photo By: | io L'S | Photo #:
Site:
Direction |
| otion: The Sample N
WL-02, that were co
By: Wallace O'Rear | #: R <sub>2</sub> P <sub>1</sub>
Lucky Service
on Facing: South | | | By: Wallace O'Rear | n: Clos
2-WL-0]
1. | 4: R <sub>1</sub> P <sub>25</sub>
Lucky Service:
on Facing: Down |
| Sample
t were c
c O'Rea | R <sub>2</sub> P <sub>1</sub>
Lucky Services, Inc.
F acing: South | | | e O'Rea | e-up of t
 with tl | R1P25
Lucky Services, Inc.
F acing: Down |
| los. L | | | | | the sam
ne filled | |
| S-03-W
 from tl
Date: | City:
Time: | | | Date: | pling po
sample | City:
Time: |
| stion: The Sample Nos. LS-03-WL-01 and WL-02, that were collected from the sump. By: Wallace O'Rear Date: 11/19/96 | Hobbs, NM
1655 | | | 11/19/96 | tion: Close-up of the sampling point for Sample
5-02-WL-01 with the filled sample bottles in the
und. | Hobbs, NM
1652 |
| 99 - d | NM | | | <u>6</u> | Sample
in the | NM |

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Hobbs, NM City: R_2P_2 Photo #: Lucky Services, Inc. Time: 1715 Site: **Direction Facing:** East

Description: Collection of the Field Blank, Sample No. LS-01-FB-01 that was collected next to the sump.

11/19/96 Date: Photo By: Wallace O'Rear

> Site: Direction Facing: Down Photo #: R_2P_3 Lucky Services, Inc. Time: City: 1200 Hobbs, NM

sample cooler prior to shipment. Description: Documentation of the condition of the

Photo By: Dan Irvin Date: 11/20/96