

GW - 76

GENERAL CORRESPONDENCE

YEAR(S):

2006-1991

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 1/25/07

or cash received on in the amount of \$ 100⁰⁰

from Smith International Inc

for GW-076

Submitted by: Lawrence Romero Date: 2/2/07

Submitted to ASD by: Lawrence Romero Date: 2/2/07

Received in ASD by: Date:

Filing Fee New Facility Renewal ✓

Modification Other

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment

SMITH INTERNATIONAL, INC.

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

Tel: 281/443-3370

2007 JAN 31 PM 2 49

January 26, 2007

GWO76

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

**CERTIFIED MAIL 7005 1820 0001 4447 1862
RETURN RECEIPT REQUESTED**

Subject: Smith Services, 1000 West County Road, Hobbs, NM 88340

Dear Mr. VanGonten:

Thank you for your January 3, 2007 letter. Enclosed with this letter is the reissued application fee check for the December 29, 2006 Discharge Plan Renewal Application for the subject facility. Please call me at (281) 233-5715 if I can provide any additional information relative to the renewal application.

Sincerely,



Bernice Petersen
Principal Environmental Coordinator

Enclosure

cc: Facility file

SMITH INTERNATIONAL, INC.

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

Tel: 281/443-3370

QW 0076

RECEIVED

JAN 02 2007

Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

December 29, 2006

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

Subject: Smith Services, 1000 West County Road, Hobbs, NM 88340

Dear Mr. VanGonten:

Please find the following items enclosed with this letter:

- Discharge Plan Application (renewal) for the subject Smith International, Inc. oil field service facility and
- Filing fee - Check No. 1175796 in the amount of \$100.00
- Proposed Public Notice Information

Please call me at (281) 233-5715 if I can provide any additional information relative to this renewal application.

Sincerely,

Bernice Petersen

Bernice Petersen
Smith International, Inc.

Enclosure

cc: X. Hinojos / Smith Services – Hobbs, NM
State of New Mexico Natural Resources-Oil Conservation Division, District I
Facility file

PROPOSED PUBLIC NOTICE INFORMATION

**Smith Services
1000 West County Road, Hobbs, NM 88240
Discharge Plan Application**

Subsection F - 20.6.2.3108 NMAC

- (1) Name and address of the proposed discharger:
Smith Services
1000 West County Rd.
Hobbs, NM 88240
- (2) The location of the discharge, including a street address, if available, and sufficient information to locate the facility with respect to surrounding landmarks: See (1)
- (3) A brief description of the activities that produce the discharge described in the application: The facility rents and services certain oil field tools. Rental tools are dismantled, repaired, inspected, reassembled, and painted and returned to the inventory. Tool refurbishment work areas are indoors with the exception one outdoor cleaning area, one inspection area and the wash water treatment unit. Tools may be staged outdoors between the various stages of refurbishment.
- (4) A brief description of the expected quality and volume of the discharge: Although a discharge is not expected to occur due to the Best Management Practices used by facility personnel, should a discharge occur, water may contain petroleum hydrocarbons or metals. Expected volume unknown.
- (5) The depth to and total dissolved solids concentration of the ground water most likely to be affected by the discharge:

Depth to ground water: \geq 45 feet below ground surface (bgs) per facility well construction summary (1966)

Total Dissolved Solids (TDS): average 657.75 milligrams per liter (mg/L) per the City of Hobbs Municipal Well System 2006 Water Quality Laboratory Report.

Proposed location and newspaper per Subsection B 20.6.2.3108 NMAC paragraphs (1) through (4) or Subsection C 20.6.2.3108 paragraph (2)

Proposed Newspaper: Hobbs News-Sun

Proposed Location: Facility perimeter fence at the intersection of West County and Sanger Roads.

5715



SMITH INTERNATIONAL, INC.
P.O. BOX 60068, Houston, Texas 77205

To: NEW MEXICO ENVIRONMENT DEPARTMENT
WATER QUALITY MANAGEMENT FUND
1220 S. ST.FRANCIS DR.
SANTA FE, NM 87505



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

JANUARY 3, 2007

Ms. Bernice Petersen
Smith International, Inc.
P.O. Box 60068
Houston, TX 77205-0068

**RE: DISCHARGE PLAN RENEWAL APPLICATION (GW076)
SMITH SERVICES, 1000 WEST COUNTY ROAD
HOBBS, NM 88340
SECTION 32, TOWNSHIP 18 SOUTH, RANGE 38 EAST
LEA COUNTY, NEW MEXICIO**

Dear Ms. Petersen:

The New Mexico Oil Conservation Division (OCD) is returning Check No. 1175796 to Smith International because the check was made out to the wrong account. OCD will hold Smith's Discharge Plan Application until you resubmit a new check. Please make the check payable to "*New Mexico Environment Department – Water Quality Management Fund*" and send the check and any future correspondence to my attention.

If you have any questions, please call me at 505-476-3488.

Sincerely,

Glenn von Gonten
Senior Hydrologist



SMITH INTERNATIONAL, INC.
P.O. BOX 60068, Houston, Texas 77205

WACHOVIA BANK, N.A.
Greenville, South Carolina, In cooperation with Wells Fargo Bank, NA 4759-403231

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532

CHECK: [REDACTED]

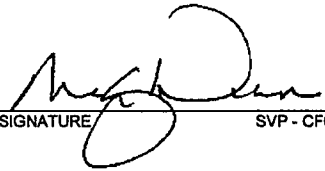
CHECK DATE	CHECK NUMBER
28-DEC-06	[REDACTED]

\$*****100.00

Pay: One Hundred Dollars And 00
Cents.....

To The Order Of: NMED WATER MANAGEMENT DIVISION
C/O OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
SANTA FE, NM 87505

VOID


AUTHORIZED SIGNATURE SVP - CFO

[REDACTED]

GW 0076

SMITH INTERNATIONAL, INC.

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

Tel: 281/443-3370

RECEIVED

December 29, 2006

COPY

JAN 02 2007

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

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

Subject: Smith Services, 1000 West County Road, Hobbs, NM 88340

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- Proposed Public Notice Information

Please call me at (281) 233-5715 if I can provide any additional information relative to this renewal application.

Sincerely,

Bernice Petersen

Bernice Petersen
Smith International, Inc.

Enclosure

cc: X. Hinojos / Smith Services – Hobbs, NM
State of New Mexico Natural Resources-Oil Conservation Division, District I
Facility file

PROPOSED PUBLIC NOTICE INFORMATION

Smith Services
1000 West County Road, Hobbs, NM 88240
Discharge Plan Application

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Proposed Newspaper: Hobbs News-Sun

Proposed Location: Facility perimeter fence at the intersection of West County and Sanger Roads.



SMITH INTERNATIONAL, INC.
P.O. BOX 60068, Houston, Texas 77205

WACHOVIA BANK, N.A.

Greenville, South Carolina, In cooperation with Wells Fargo Bank, NA 4759-403231

67-1
532

CHECK: [REDACTED]

CHECK DATE	CHECK NUMBER
28-DEC-06	[REDACTED]

\$*****100.00

Pay: One Hundred Dollars And 00
Cents.....

To The Order Of: NMED WATER MANAGEMENT QUALITY
C/O OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
SANTA FE, NM 87505

VOID

AUTHORIZED SIGNATURE

SVP - CFO

[Handwritten Signature]

[REDACTED]

VonGonten, Glenn, EMNRD

From: VonGonten, Glenn, EMNRD
Sent: Wednesday, December 20, 2006 11:36 AM
To: 'bpetersen@smith.com'
Subject: Smith Intl Hobbs Facility (Discharge Permit GW076)
Attachments: Renewal WQCC Notice Regs.pdf; Discharge Plan App Form.pdf; Guidelines For Discharge Plans.pdf; PN Flow Chart.20.6.2renewal.pdf

Bernice,

The Oil Conservation Division's (OCD) records indicate that your discharge plan has expired. New Mexico Water Quality Control Commission regulations (WQCC) Section 3106.F (20.6.2.3106.F NMAC) specifies that if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. You may be operating without a permit. Please submit a permit renewal application with a filing fee (20.6.2.3114 NMAC) of \$100.00 by December 31, 2006. Please make all checks payable to the **Water Quality Management Fund** and addressed to the OCD Santa Fe Office. There is also a discharge plan permit fee, based on the type of facility, which OCD will assess after processing your application. An application form and guidance document is attached in order to assist in expediting this process.

In accordance with the public notice requirements (Subsection A of 20.6.2.3108 NMAC) of the newly revised (July 2006) WQCC regulations, "...to be deemed administratively complete, an application shall provide all of the information required by Paragraphs (1) through (5) of Subsection F of 20.6.2.3108 NMAC and shall indicate, for department approval, the proposed locations and newspaper for providing notice required by Paragraphs (1) through (4) of Subsection B or Paragraph (2) of Subsection C of 20.6.2.3108 NMAC." You are required to provide the information specified above in your permit renewal application submittal. Attached are a flow chart and the regulatory language pertaining to the new WQCC public notice requirements for your convenience. After the application is deemed administratively complete, the revised public notice requirements of 20.6.2.3108 NMAC must be satisfactory demonstrated to OCD. OCD will provide public notice pursuant to the revised WQCC notice requirements of 20.6.2.3108 NMAC to determine if there is any public interest.

Please contact me by phone at 505-476-3488 or email glenn.vongonten@state.nm.us if you have any questions regarding this matter.

GW 0076

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Revised June 10, 2003

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

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

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

☐ New ☒ Renewal ☐ Modification

1. Type: OIL FIELD SERVICE COMPANY
2. Operator: SMITH SERVICES (A BUSINESS UNIT OF SMITH INTERNATIONAL, INC.)
Address: 1000 WEST COUNTY ROAD HOBBS, NM 88240
Contact Person: BRYAN BROWN Phone: (505) 397-1533
3. Location: NW /4 NW /4 Section 32 Township 18S Range 38E
Submit large scale topographic map showing exact location.

ATTACHMENT 1

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

ATTACHMENT 2

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

ATTACHMENT 3 - SWPPP SECTION 2.1 AND FIGURE 1

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

ATTACHMENT 3 - SWPPP SECTIONS 3.1, 3.2 AND 3.3

7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.

ATTACHMENT 3 - SWPPP SECTIONS 3.1, 3.2 AND 3.3

8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.

ATTACHMENT 3 - SWPPP SECTIONS 3.1 AND 3.2

9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.

NONE PLANNED

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

ATTACHMENT 3 - SWPPP SECTIONS 4.2 AND 4.3

11. Attach a contingency plan for reporting and clean-up of spills or releases.

ATTACHMENT 3 - SWPPP SECTION 4.4

12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.

ATTACHMENT 4

13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

ATTACHMENT 5

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

Name: MAURICE STICKER

Title: DIRECTOR OF ENVIRONMENTAL AFFAIRS

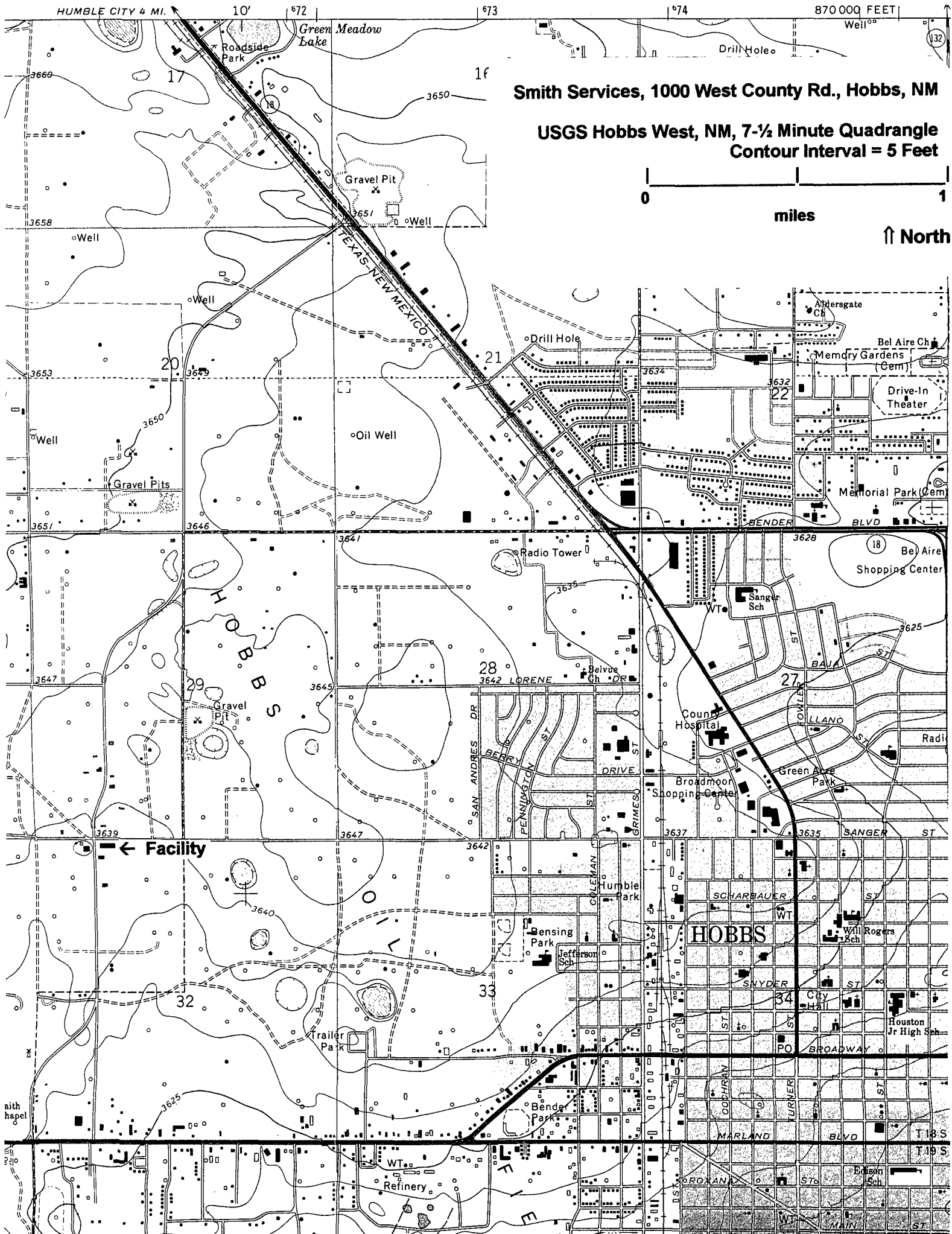
Signature: [Signature]

Date: 12/21/06

E-mail Address: msticker@smith.com

**ATTACHMENT 1
TOPOGRAPHIC MAP**

**Smith Services
1000 West County Road, Hobbs, NM 88240
Discharge Plan Application**



Smith Services, 1000 West County Rd., Hobbs, NM

USGS Hobbs West, NM, 7-1/2 Minute Quadrangle
Contour Interval = 5 Feet

0 1
miles

↑ North

**ATTACHMENT 2
LANDOWNER INFORMATION**

**Smith Services
1000 West County Road, Hobbs, NM 88240
Discharge Plan Application**

**ATTACHMENT 2
LANDOWNER INFORMATION**

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

Smith International, Inc. (281) 443-3370
P.O. Box 60068
Houston, TX 77205-0068

ATTACHMENT 3
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Smith Services
1000 West County Road, Hobbs, NM 88240
Discharge Plan Application



Storm Water Pollution Prevention Plan

**Smith Services
100 West County Road
Hobbs, NM 88241**

Prepared By:

**Sii Environmental Affairs
Houston, TX**

**March 2002
(Revised December 2006)**

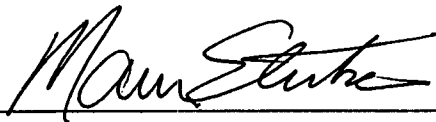
STORM WATER POLLUTION PLAN CERTIFICATION¹

SMITH SERVICES, 1000 WEST COUNTY ROAD, HOBBS, NM 88240

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Maurice Sticker
Director, Environmental Affairs
Name and Official Title (Type or Print)

Signature



Date Signed

10/13/04

Signed and certified per Part 9.7 of the National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit (MSGP) for Industrial Activities (65 FR 64746 to 64880).

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Figures

- | | <u>Description</u> |
|---|--|
| 1 | Topographic Map of Facility and Surrounding Area |
| 2 | Site Map |

Attachments

- | | <u>Description</u> |
|---|---|
| 1 | Quarterly Outfall Monitoring Form |
| 2 | Quarterly Inspection Checklist |
| 3 | Comprehensive Site Compliance Checklist |
| 4 | Annual Employee Training Form |
| 5 | Non-Storm Water Discharge Certification |

Appendixes

- | | <u>Description</u> |
|---|--|
| A | Notice of Intent for Industrial Activities |
| B | Quarterly Outfall Monitoring Records |
| C | Quarterly Inspection Records |
| D | Comprehensive Site Compliance Evaluation Records |
| E | Annual Employee Training Records |

Section 1 – Introduction

1.1 Background

On September 29, 1995, the National Pollutant Discharge Elimination System Storm Water Multi-Sector General Permit (Permit) for Industrial Activities (60 Federal Register 50804 – 51319, September 29, 1995) was promulgated. The Permit was reissued October 30, 2000 (65 Federal Register 64746 – 64880) and is administered by the United States Environmental Protection Agency (EPA) Region VI in the State of New Mexico. The Permit expired in October 2005 but is administratively continued until a new permit is issued. As of December 21, 2006, the new permit had not been issued. The following Permit eligibility requirements were evaluated relative to the storm water discharges from Smith Services at 1000 West County Road in Hobbs, NM:

- **Part 1.2.1** Industrial Sector
- **Part 1.2.2** Discharges Covered
- **Part 1.2.3.6** Endangered and Threatened Species or Critical Habitat Protection
- **Part 1.2.3.7** Storm Water Discharges and Storm Water Discharge-Related Activities with Unconsidered Adverse Effects on Historic Properties
- **Part 13.6.2** NMR05*###: The State of New Mexico, except Indian Country lands

Storm water discharges from Smith Services in Hobbs, NM were determined to be eligible, thus a "Notice of Intent for Storm Water Discharges Associated with Industrial Activity Under a NPDES General Permit" (NOI)" was filed with the EPA and site-specific Storm Water Pollution Prevention Plan (SWPPP) was prepared. Copies of the NOI and eligibility review documentation are included in Appendix A of this SWPPP

1.2 Responsibilities

Pollution Prevention Team and Other Facility Employees:

- Perform the Quarterly and Annual Inspections
- Keep all inspection records onsite with the SWPPP (Appendixes B through E)
- Advise Sii Environmental Affairs when any of the conditions occurs:
 - Change in design, construction, operation or maintenance which has a significant effect on the potential for a discharge of pollutants to the waters of the United States, or
 - SWPPP proves to be ineffective in eliminating or significantly minimizing pollutants from sources including those listed in Section 3.1 and 3.2 of the SWPPP, or
 - SWPPP proves to be ineffective in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity.

Sii Environmental Affairs:

- Provide annual employee training course.
- Revise the SWPPP as needed.

Section 2 - General Facility Information

2.1 Facility Description

Smith Services is located at 1000 West County Road, Hobbs, NM, 88240 on the southeast corner of the intersection of West County Road and Sanger (Figure 1). The facility's phone number is (505) 397-1533. The primary activity at this facility is oil field tool rental and service. The Standard Industry Classification (SIC) is 1389; the North American Industrial Classification System (NAICS) code is 213112. The facility generally operates from 7:00 AM to 5:00 PM Monday through Friday, but can operate outside of these hours to meet customer requirements. Up to 50 people may be employed at the facility.

The facility is located on approximately 9.6 acres. The percentage of the facility covered with impervious surfaces, such as concrete or asphalt paving or buildings, is approximately 61%.

The facility Emergency Contact is:

District Manager (505) 397-1533

The facility Alternate Emergency Contact is the Facility Environmental Coordinator:

Xavier Hinojos, Dispatcher (505) 397-1533

2.2 Facility Maps

Figure 1 is a topographic map of the facility. The topographic map extends a minimum of one-half mile beyond the property boundaries of the site and shows the facility, surface water bodies and major transportation routes.

Figure 2 is a detailed facility map. The location of the following items are shown:

- Storm water discharge point(s), drainage area(s), and structural controls
- Paved areas and buildings
- Areas of actual or potential pollutant contact
- Location of any waste-generating areas and activities, if any

Section 3 - Potential for Significant Materials in Storm Water

3.1 Narrative Description of Industrial Activities and Potential Pollutant Sources

A narrative description of industrial activities and potential pollutant sources follows:

Activity	Description
Tool Refurbishment	Rental tools are dismantled, repaired, inspected, reassembled, and painted and returned to the inventory. Tool refurbishment work areas are indoors with the exception one outdoor cleaning area. Tools may be staged outdoors between the various stages of refurbishment.
Tool and Truck Washing	Tools are steam cleaned with soapy water prior to refurbishment at one of the tool-wash areas (one inside and one outside). Trucks are periodically steam cleaned with soapy water at the indoor truck wash station. In each wash area, water and solids collect in subgrade sumps where the majority of solids are removed via gravity separation. The water fraction is routed to an onsite treatment system for processing.
Wash Water Treatment	The aboveground water treatment system is located on the east side of the facility yard. Incoming wash water is routed to an oil-water separator. The oil fraction is removed to a waste oil collection tank for proper disposal and the water fraction to a multi-chambered tank for treatment via aeration/chlorination. Processed water is stored in the last chamber of the treatment tank and an adjacent tank for reuse. Solids are periodically removed and properly disposed.
Inspection	The inspection shop is located east of the BOP shop. The inspector uses a petroleum distillate solution to clean the tool connections prior to inspection. An additional area for drill collar inspection area is located in the southeast portion of the facility.
Painting	Tools are painted indoors in the BOP shop. Paint is applied by brush or aerosol can. Empty paint cans are dried completely prior to disposal.
Material storage	Oil field tools, pipe, BOP units, drilling fluid tanks (empty) are stored outdoors. Small containers of chemicals are stored indoors and outdoors. A bulk material storage area is located outdoors.
Loading/ Unloading	Material loading and unloading occurs both indoors and outdoors using a gasoline or diesel powered forklift trucks or overhead cranes. Forklift fuel is obtained from the onsite bulk material storage area. Forklift maintenance is performed indoors in the mechanic shop.
Waste storage	Waste materials are stored both indoors and outdoors. The special waste (oily materials) and the municipal waste dumpsters are equipped with lids and are located outdoors. Waste materials other than scrap metal are stored in labeled, closed 55-gallon drums or closed tanks.
Weed control	Facility personnel may apply a residential grade herbicide as needed to the pipe yard and the areas adjacent to the building and fence. Manual weed removal is also performed.
Vehicle maintenance	Truck maintenance is performed indoors. Fleet vehicles are maintained offsite.

BOP = Blowout Preventer

December 21, 2006

The location of these activities and potential pollutant sources, the direction of flow and outfall locations are shown in Figure 2. Activities conducted indoors or in sheltered (roofed) areas are not expected to allow exposure to precipitation or runoff.

3.2 Inventory of Potentially Exposed Material and Potential Pollutants

The following is an inventory of potentially exposed materials, potential pollutants and Best Management Practices (BMPs) to prevent storm water pollution for facility activities that may allow exposure to precipitation or runoff:

Tool Refurbishment

This activity is conducted indoors.

Potentially exposed materials: Not applicable

Potential pollutants: Not applicable

BMP: Continue to conduct this activity indoors.

Tool and Truck Washing

Tool washing occurs indoors and outdoors. Storm water is not expected to be exposed to activities conducted in the indoor tool wash area. The outdoor wash area is located on a concrete slab curbed on the north side and sloped toward a collection pan. Storm water may be exposed to wash water generated in this area. Truck washing may occur indoors or outdoors.

Potentially exposed materials: Steel, thread compound, oil, grease, oily water, oily sludge, soap

Potential pollutants: Metals, oil and grease, TPH, TSS, pH

BMP #1: Wash trucks and the tools primarily indoors.

BMP #2: In the outdoor wash area, periodically inspect the curb and water collection basin to ensure integrity and proper operation.

BMP #3: Evacuate solids evacuation from the sump regularly.

BMP #3: Use biodegradable soap, if practical.

BMP #4: Cleanup drips and spills prior to washing tools, keeping work areas clean and clear of residual materials. Practice good housekeeping.

Wash Water Treatment

Wash water is transmitted to the wash water treatment system via underground piping therefore is not expected to be exposed to storm water during transit. Wash water may be exposed to storm water during the various stages of treatment.

Potentially exposed materials: Oily water, chlorine tablets, soap

Potential pollutants: TPH, VOCs, pH

BMP #1: Maintain sufficient freeboard in the treatment vessel accommodate precipitation.

BMP #2: Perform regular maintenance.

BMP #3: Keep work areas clean and clear of residual materials.

BMP #4: Practice good housekeeping.

Inspection

Storm water is not expected to be exposed to activities in the tool inspection shop. Inspections performed outdoors may be exposed to storm water.

Potentially exposed materials: Petroleum distillate

Potential pollutants: VOCs, TPH

BMP #1: Use drip trays and absorbent materials to contain materials during application.

BMP #2: Place collected material in properly labeled containers that are closed except during active material transfer.

BMP #3: Cover or otherwise prevent precipitation accumulation when trays not in use.

BMP #4: Promptly clean up any drips that may occur. Practice good housekeeping.

Painting

This activity is conducted indoors.

Potentially exposed materials: Not applicable.

Potential pollutants: Not applicable.

BMP #1: Continue to conduct this activity indoors.

Bulk Material Storage, Loading and Unloading

Storm water may be exposed to chemicals managed in this area.

Potentially exposed materials: Diesel, hydraulic oil, automatic transmission fluid (ATF), oily sludge

Potential pollutants: TPH, VOCs, oil and grease

BMP #1: Follow the procedures given in Sections 3.3 of this SWPPP.

BMP #2: Inspect storage areas regularly and address issues identified during inspections promptly.

BMP #3: Ensure containers are closed/capped and labeled.

BMP #4: Promptly clean up any drips that may occur.

BMP #5: Practice good housekeeping.

General Material Storage

Material storage locations are shown in Figure 2.

Potentially exposed materials: Steel, thread compound, grease, soap

Potential pollutants: Metals, oil and grease, TPH, VOCs, pH

BMP #1: Inspect storage areas regularly and address issues identified during inspections promptly.

BMP #2: Promptly clean up any drips that may occur.

BMP #3: Plainly label all containers as to the contents.

BMP #4: Practice good housekeeping.

General Loading/Unloading

Loading/unloading may occur site-wide both indoors or outdoors.

Potentially exposed materials: Steel, oil, paint, thread compound, grease

Potential pollutants: Metals, oil and grease, TPH, VOCs

BMP #1: Inspect outdoor loading/unloading areas regularly.

BMP #2: Ensure facility personnel receive instruction or training in proper equipment use and loading/unloading procedures.

Waste Storage

Outdoor waste storage locations are shown in Figure 2.

Potentially exposed materials: Municipal waste, special waste, wash water solids, used petroleum distillate, used oil, scrap metal

Potential pollutants: Municipal waste: BOD, Nitrite, Nitrate; Special Waste: oil and grease, TPH, VOCs; Wash water solids: oil and grease, TPH, VOCs, pH; Used petroleum Distillate: TPH, VOCs; Used oil: oil and grease, TPH, VOCs; Scrap metal: metals.

BMP #1: Inspect outdoor storage areas regularly.

BMP #2: Close containers except during the active transfer of material.

BMP #3: Use containment (portable or permanent) if feasible.

BMP #4: Schedule regular material pickup.

BMP #5: Plainly label all containers as to the contents.

Weed Control

In addition to manual weed removal, facility personnel may apply a residential grade herbicide as needed in the pipe yard and the areas adjacent to the fence and building.

Potentially exposed materials: Herbicide

Potential pollutants: Herbicide

BMP #1: Facility personnel will follow the manufacturer's direction when preparing and applying the residential grade herbicide.

BMP #2: Employ manual weed removal when practical.

BOD – Biochemical Oxygen Demand
VOCs – Volatile Organic Compounds

TPH – Total Petroleum Hydrocarbon

3.3 Bulk Material Storage Area

The Bulk Material Storage Area is a 40 feet by 40 feet, concrete slab surrounded by a cinder block containment berm. Two fuel dispensers are located outside of the containment, a diesel dispenser on the south side and a former gasoline dispenser on the north side. Located within the containment berm are the following:

- One 10,000-gallon above ground storage tank (AST) – off-road diesel
- One 5,000-gallon AST – empty
- One 250-gallon AST – automatic transmission fluid (ATF)
- Two 200-gallon ASTs – one hydraulic oil and one empty
- Delivery port with spill containment box– diesel
- Dispensers with spill containment box– diesel, ATF and hydraulic oil

In order to prevent spills during unloading activities, the following procedures will be followed:

- Caution staff to ensure that all hoses are disconnected and all valves and connections are secure prior to vehicle departure.
- Engage vehicle emergency brake during loading/unloading operations.
- Place drip pans or buckets under valves and hose connections.
- Ensure qualified personnel load/unload fuel. The vehicle operator or a facility representative should be present for the duration of the transfer.
- Should a spill occur, immediately shut off all pumps and valves in order to stop the spill. Implement the procedures outlined in Section 4.4 of this SWPPP.

3.4 Spills and Leaks

There have been no reportable quantity spills (per 40 CFR 110, 40 CFR 117 or 40 CFR 302) at this facility in the past three years.

The Bulk Material Storage Area and the Wash Water Treatment System Area are susceptible to spills. Both of these areas are equipped with containment berms. Should the containment be breached or otherwise compromised, flow would follow the surface gradient to the east-southeast. Spill Prevention and Response procedures are given in Section 4.4 of this SWPPP.

3.5 Sampling Data

Quarterly visual monitoring will be performed and documented using the form provided in Attachment 1. Records will be filed in Appendix B and retained onsite for a minimum of three years.

Section 4 - Storm Water Measures and Controls

4.1 Pollution Prevention Team

The Pollution Prevention Team is composed of a Team Leader and an Alternate Team Leader designated by the Facility Environmental Coordinator. These individuals and their respective responsibilities are as follows:

Position	Name	Responsibilities
Team Leader	District Manager	<ul style="list-style-type: none">• SWPPP implementation and compliance• Preventive maintenance, periodic inspections and annual evaluation• Recommend SWPPP amendments and new management practices
Alternate Team Leader	Xavier Hinojos, Dispatcher	<ul style="list-style-type: none">• As assigned by Team Leader• Recommend SWPPP amendments and new management practices

Both the Team Leader and Alternate Team Leader can be reached at (505) 397-1533.

4.2 Preventive Maintenance and Periodic Inspections

The Pollution Prevention Team Leader or his designee will perform quarterly inspections using the checklist is provided in Attachment 2. If areas that need repair, or clean up are identified during the inspection, the District Manager will be notified and the appropriate corrective action will be determined and implemented. Inspection records will be filed in Appendix C of this SWPPP and will be retained at least 3 years.

4.3 Good Housekeeping

Good housekeeping is the responsibility of all employees. Indoor and outdoor storage areas will be maintained in a neat and orderly condition. Whenever possible, equipment staged in the outside storage areas will be maintained free of oil and grease coatings and will be stored on racks or pallets. Materials and waste will be stored indoors whenever possible. The municipal and special waste dumpsters will be emptied regularly.

4.4 Spill Prevention and Response

Spill Prevention

Materials will be handled and stored in accordance with the BMPs outlined in the Section 3.2. Spill supplies are available in the various work areas/shops that comprise the facility and in the oil storage areas.

Response and Remediation

In the event of a spill or release of hazardous material, only those preliminary actions that **do not compromise the personal safety** of the person making the discovery will be taken. These actions include:

- **Safely removing any injured persons** from the danger resulting from the spill or release to an area where they may be properly treated.
- **Closing any emergency shut off switches and valves;** deactivating pumps.

Following the preliminary actions, the following steps will be taken:

- **Notify the Emergency Coordinator** identified in Section 2.1 of the SWPPP with the following "Rule 1" information:
 - Name and telephone number of the person reporting.
 - Name and address of the facility where the incident occurred.
 - Time of incident and type of incident (e.g. spill, fire, explosion)
 - Name and quantity of material(s) involved, to the extent known.
 - Extent of injuries, if any.
 - Possible on and off site hazards to human health or the environment.

The Emergency Coordinator will use the following criteria to formulate the appropriate response action:

- Ensure that all measures have been taken to protect human health and the environment in the local area.
 - Use observation, facility records, and if necessary, chemical analysis to identify the character, exact source, amount and extent of any spilled or released material.
 - Assess possible hazards and direct or indirect effects to human health or the environment.
 - Notify Sii Environmental Affairs with all of the pertinent information including Rule 1 information.
 - Notify emergency response contractors if any equipment is needed to contain or remove spilled or released material.
- The Emergency Coordinator will make any required notification to local, state or federal agencies.
 - As needed, the Emergency Coordinator will direct on site personnel to:
 - Request assistance from co-workers.
 - Alert other facility personnel in the area if the entire facility must be evacuated.
 - Don appropriate safety equipment and attempt to stop the release by:
 - o Stop any process that is causing or contributing to the spill or release.
 - o Plug any holes or openings from which spilled or released material may be escaping.

- Contain the spilled or released material using sand, floor sweep or other absorbent and containment materials to minimize the size of the affected area.
- Transfer material from the leaking container or tank to alternate storage container or tank, if necessary, taking care not to spill any additional material during the transfer.
- Once the emergency situation has been resolved, the Emergency Coordinator will:
 - Prevent spilled or released hazardous material from entering uncontaminated areas.
 - Collect spilled or released materials and contaminated soil.
 - Classify any waste materials generated in the cleanup and properly dispose.
 - Decontaminate workers and equipment, as needed.

4.5 Sediment and Erosion Control

Approximately 61% of the facility is covered with impervious material (paving or building). The remaining area is covered with gravel. There were no evident flow paths with high potential for significant soil erosion or problems associated with significant sediment or soil erosion occurring onsite at the time the SWPPP was prepared. Any problems that may develop will be addressed in the quarterly inspection or comprehensive site compliance evaluation.

4.6 Management of Runoff

Potential storm water pollutants are given in Section 3.1. Flow paths with high potential for significant erosion are addressed in Section 4.5. The site is graded such that storm water drains via sheet flow east-southeast to a field. During periods of extended heavy precipitation, water storm water may flow overland from the field to a drainage basin managed by the City of Hobbs. Should the capacity of this basin be exceeded, water could be released to Monument Draw. The facility does not currently utilize any management practices for the treatment of or structures (e.g. culverts, weirs) for the diversion of storm water prior to discharge.

4.7 Inspections

Quarterly Inspections Routine facility inspections required by Part 4.2.7.2.1.5 will be completed quarterly and will be documented using Attachment 2. File completed forms in Appendix C of the SWPPP and retain for at least 3 years.

Annual Comprehensive Site Compliance Evaluation The Annual Comprehensive Site Compliance Evaluation and Compliance Evaluation Report required by Part 4.9 of the Permit will be documented using Attachment 3. Resolving any problems identified during the evaluation in a timely manner is the responsibility of the Pollution Prevention Team Leader, the Facility Environmental Coordinator and the District Manager. File completed forms in Appendix D of the SWPPP and retain for at least 3 years.

4.8 Annual Employee Training

Sii Environmental Affairs will provide an annual employee training course that addresses the elements of storm water pollution prevention. Training will include topics such as spill response, good housekeeping and material management. Training will be documented electronically for computer-based courses or with the training documentation form provided in Attachment 4 for presentation-based courses. Training records will be retained in Appendix E of this SWPPP for a minimum of three years.

4.9 Non-Storm Water Certification

The Non-Storm Water Discharge Certification and evaluation are provided in Attachment 5.

4.10 Plan Certification

The SWPPP Certification is provided on Page i of this SWPPP.

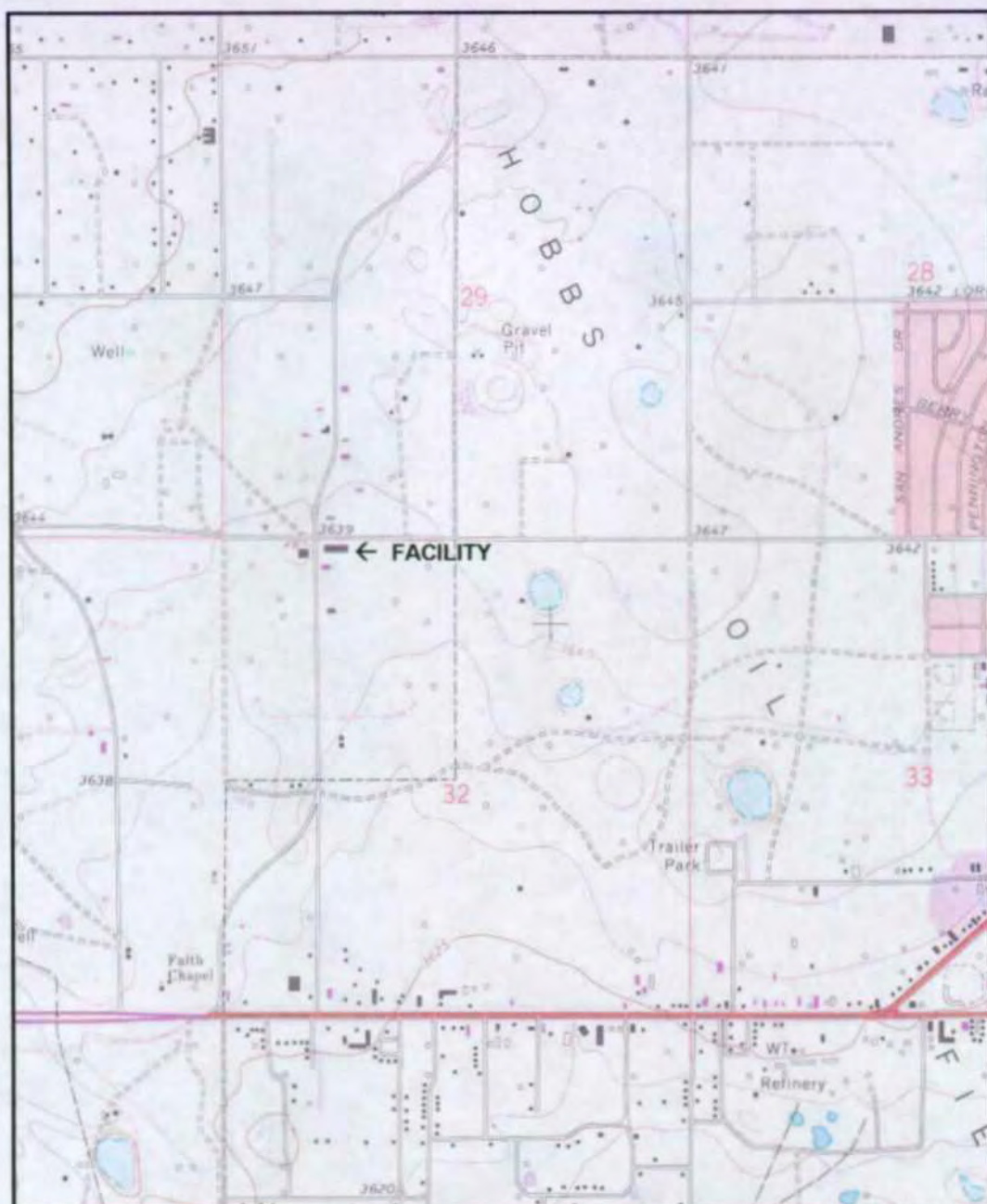
4.11 Revisions

This SWPPP was revised in October 2004. Administrative changes to the SWPPP do not require recertification. The SWPPP will be recertified when through the comprehensive site compliance evaluation or through the facility personnel it is determined that:

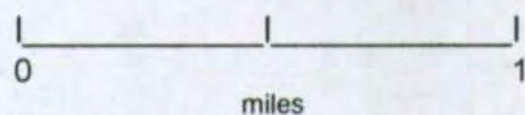
- there is a change in design, construction, operation or maintenance which has a significant effect on the potential for a discharge of pollutants to the waters of the United States, or
- the SWPPP proves to be ineffective in eliminating or significantly minimizing pollutants from sources including those listed in Section 3.1 and 3.2 of the SWPPP, or
- the SWPPP proves to be ineffective in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with this industrial activity.

Revisions will be added to this section of the plan and noted on the title page of the plan as necessary. The date of the revision will be included.

Date	Section	Revision
10/12/2004	N/A	Recertify (original plan March 2002)
	2.1	Emergency contacts: District Manager and Environmental Coordinator (Xavier Hinojos, Dispatcher)
		Spelling correction – name of Backup Emergency Contact
	3.1	Inspection: add outdoor inspection area
		Painting: delete paint gun and exhaust fan - no longer used
		Waste Storage: add scrap metal reference
	3.2	Tool and Truck Washing: correct typographical errors
		Inspection: add outdoor inspection area and BMPs for drip tray use
		Painting: conducted indoors. No exposure.
		General Material Storage: delete NaOH. No longer used or stored.
		Waste storage: add scrap metal; Nitrite and Nitrate substituted for chemical formulas in the potential pollutant description
	3.3	Delete 5,000 gallon empty aboveground storage tank (AST)
	4.1	Revise Pollution Prevention Team per Section 2.1.
	Figure 2	Delete 5,000 gallon empty AST from the Bulk Material Storage Area; change "Caustic Tank" to "Empty Tank"; add scrap metal storage area; add outdoor inspection area; delete petroleum distillate storage from inspection shop area.
	Attachment 2	Add drill collar inspection area; revise inspection shop; revise painting
	Attachment 3	Add drill collar inspection area; revise inspection shop; revise painting
	Attachment 5	Recertify Non-Storm Water Discharge
12/21/2006	1.1	Added text related to Permit expiration (October 2005)
	Cover, 2.1, Fig. 1 and 2	Corrected zip code
	3.2 and 3.2	Truck washing may occur outdoors. Revise BMP to wash tools and trucks primarily indoors.
	3.3	5,000 gallon tank is empty; delete 55 gallon drums



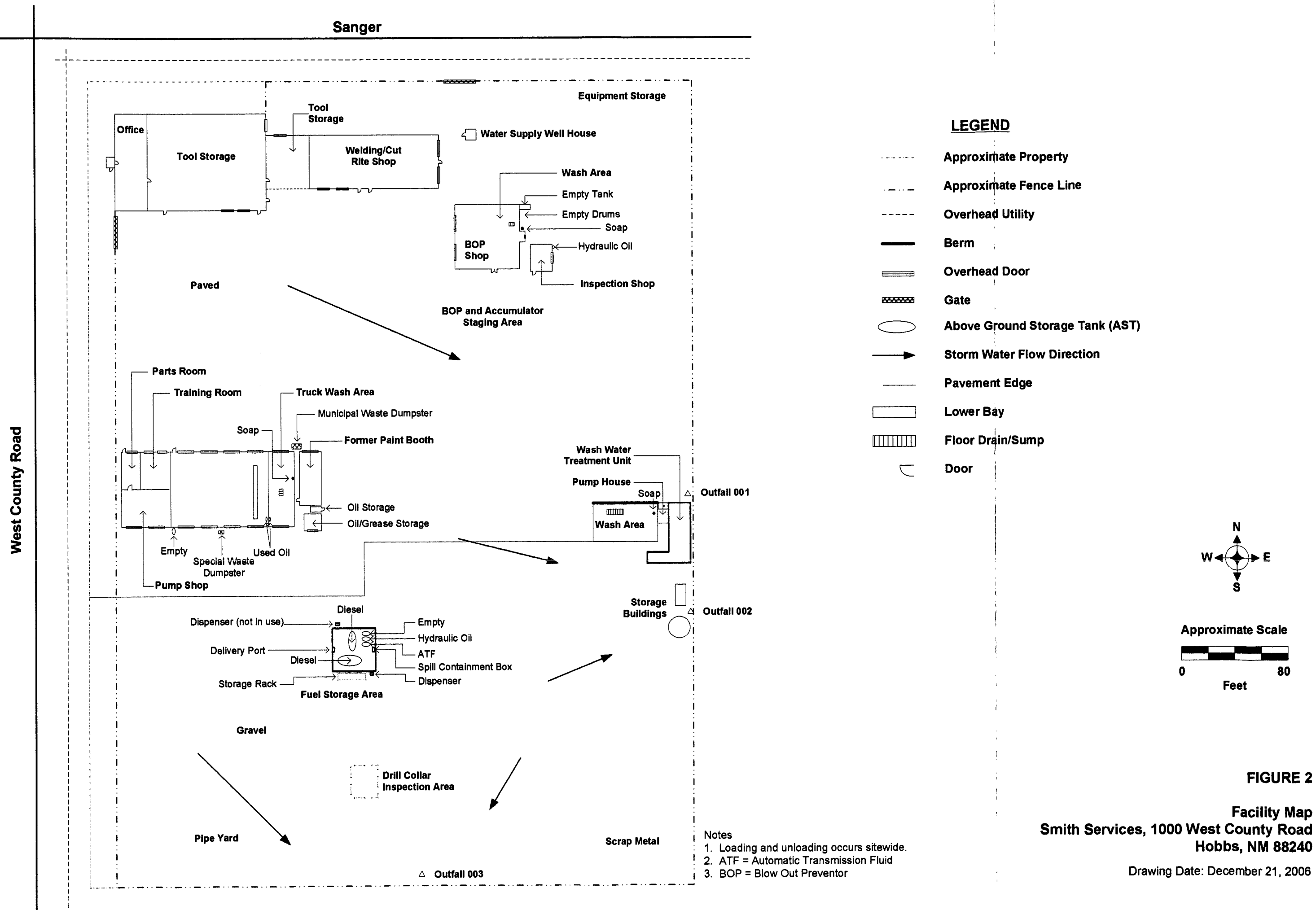
USGS Hobbs West, NM, 7½ Minute Quadrangle (1969, Photorevised 1979)



↑ North
Contour Interval = 5 feet

FIGURE 1

TOPOGRAPHIC MAP OF FACILITY AND SURROUNDING AREA
Smith Services
1000 West County Road, Hobbs, NM 88240



**ATTACHMENT 1
QUARTERLY OUTFALL MONITORING REPORT**

Date: _____

Time: _____ AM or PM (circle one)

Name and Title: _____

Signature: _____

Directions: Collect a storm water sample from each outfall once during a qualifying runoff event during each of the following calendar quarters, complete Sections 1 through 3 and file the completed form in Appendix B:

January 1 through March 31
April 1 through June 30

July 1 through September 30
October 1 through December 31

Section 1. Assess the event (check the event type):

- _____ Snow melt - proceed to Section 2.
_____ No measurable rainfall during monitoring period – proceed to Section 3
_____ Rainfall measurement from rain gauge: _____

☐ Yes ☐ No

Is this rainfall event ≥ 0.1 inch and has it been more than 72 hours since last rainfall event ≥ 0.1 inch?

☐ Yes ☐ No

Is the rainfall occurring during daylight hours?

If "no" to either of the rainfall questions, proceed to Section 3.

Section 2. Sample Collection:

Collect a sample at each outfall within 30 minutes but no later than 1 hour of when the runoff or snowmelt begins discharging at the outfall. Describe the visual quality of the sample.

Outfall Number	001	002	003
No Discharge			
Odor			
Color			
Clarity			
Floatables			
Stain			
Biological			
Other			

Section 3. Signature per Part 9.7 of the National Pollutant Discharge Elimination System Storm Water Multi-Sector General permit for Industrial Activities

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and Title

Date

Smith Services Red Baron Group – Hobbs, NM

**ATTACHMENT 2 -
QUARTERLY INSPECTION CHECKLIST
Page 1 of 2**

Quarterly Inspection Items	Yes	No
Drill Collar Inspection Area		
• Drip trays are empty and collected material is removed and properly contained.		
• Used absorbent is properly contained pending disposal.		
• Good housekeeping is practiced.		
• Spill cleanup materials are available.		
Painting		
• Painting performed indoors.		
• Paint is applied by brush or aerosol can only.		
Bulk Material Storage, Loading and Unloading		
• Following procedures in SWPPP Section 3.3.		
• Spill cleanup materials available.		
• Containers are properly labeled and closed.		
• Good housekeeping (residual drips/spills promptly addressed) is practiced.		
General Material Storage		
• Good housekeeping (residual drips/spills promptly addressed) is practiced.		
• Spill cleanup materials available.		
• Containers are properly labeled and closed.		
General Loading/Unloading		
• Spill cleanup materials available.		
• Good housekeeping (residual drips/spills promptly addressed) is practiced.		
• Personnel performing this task are properly trained.		
Waste Storage		
• Spill cleanup materials available.		
• Good housekeeping (residual drips/spills promptly addressed) is practiced.		
• Containers are properly labeled and closed.		
Weed Control		
• Removing weeds manually when practical.		
• Using herbicide according to the manufacturer's directions when needed.		

Summarize deficiencies. Must be corrected within **14 days**. Note date corrected.

**ATTACHMENT 2 -
QUARTERLY INSPECTION CHECKLIST
Page 1 of 2**

Directions: Complete a Quarterly Inspection Checklist once during each of the following calendar quarters: January 1 through March 31, July 1 through September 30, April 1 through June 30, October 1 through December 31 and file the completed form in Appendix C.

Date _____ Inspector's Name/Title and Signature _____

Quarterly Inspection Items	Yes	No
Tool Refurbishment		
• Activity performed indoors.		
• Spill cleanup materials available.		
Wash Area – BOP Shop		
• Solids are removed as needed.		
• Spill cleanup materials available.		
• Good housekeeping (residual drips/spills promptly addressed) practiced.		
• Soap container is properly connected – no drips or spills.		
Wash Area – Truck Wash		
• Solids are removed as needed.		
• Spill cleanup materials available.		
• Good housekeeping (residual drips/spills promptly addressed) is practiced.		
• Soap container is properly connected – no drips or spills.		
Wash Area – Outdoor		
• Spill cleanup materials available.		
• Solids are removed as needed.		
• Good housekeeping (residual drips/spills promptly addressed) is practiced.		
• Containment curb is intact.		
• Soap container is properly connected.		
Wash Water Treatment Unit		
• There is sufficient freeboard in tanks and vessels.		
• Spill cleanup materials available.		
• Treatment unit is properly maintained.		
• Water in containment, if any, is sheen-free (if not applicable, write "N/A" in "Yes" column)		
• The containment berm is intact.		
• Good housekeeping (residual drips/spills promptly addressed) is practiced?		
Inspection Shop		
• If present, containers are properly labeled and closed.		
• Spill cleanup materials available.		
• Good housekeeping (residual drips/spills promptly addressed) is practiced.		
• Inspections performed indoors.		

ATTACHMENT 3 - ANNUAL COMPLIANCE EVALUATION REPORT (Page 1 of 6)

Provide the evaluation date and the name(s) of the person(s) conducting the evaluation:

Date: _____

Name: _____

Purpose: This report documents the annual comprehensive site compliance evaluation required in Part 4.9 of the National Pollutant Discharge Elimination System Storm Water Multi-Sector General Permit for Industrial Activities (Permit). File completed reports in Appendix D.

Scope: Conduct a facility walkthrough observing the practices, procedures and/or structures described in the Storm Water Pollution Prevention Plan (SWPPP). Review each section of the SWPPP for accuracy, note any changes, and evaluate the affect of these changes (structural or procedural) on storm water management.

SWPPP Section	Yes	No	Comments
Section 2.1, Facility Description			
• Description is accurate			
Section 2.2, Facility Maps			
• Figures 1 and 2 are accurate and complete			
Section 3.1, Narrative Description of Industrial Activities and Potential Pollutant Sources			
• List of industrial activities/potential pollutant sources is complete.			
• Industrial activities/potential pollutant source descriptions are accurate.			
• Industrial activity/potential pollutant source locations are accurate.			
Section 3.2, Inventory of Potentially Exposed Material and Potential Pollutants			
Tool Refurbishment			
• Activity performed indoors.			
• Potential pollutant/potentially exposed material list accurate.			
• Good housekeeping (residual drips/spills promptly addressed) practiced.			
Wash Area – BOP Shop			
• Solids are removed as needed.			
• Potential pollutant/potentially exposed material list accurate.			
• Good housekeeping (residual drips/spills promptly addressed) practiced?			
• Soap container is properly connected – no drips or spills?			

**ATTACHMENT 3 -
ANNUAL COMPLIANCE EVALUATION REPORT
(Page 2 of 6)**

SWPPP Section	Yes	No	Comments
Section 3.2, Inventory of Potentially Exposed Material and Potential Pollutants			
Wash Area – Truck Wash			
• Solids are removed as needed.			
• Potential pollutant/potentially exposed material list accurate.			
• Good housekeeping (residual drips/spills promptly addressed) is practiced.			
• Soap container is properly connected.			
Wash Area – Outdoor			
• Potential pollutant/potentially exposed material list accurate.			
• Solids are removed as needed.			
• Good housekeeping (residual drips/spills promptly addressed) is practiced.			
• Containment curb is intact.			
• Soap container is properly connected.			
Wash Water Treatment Unit			
• There is sufficient freeboard in tanks and vessels.			
• Potential pollutant/potentially exposed material list accurate.			
• Treatment unit is properly maintained.			
• Water in containment, if any, is sheen-free? (if not applicable, write "N/A" in "Yes" column).			
• The containment berm is intact.			
• Good housekeeping (residual drips/spills promptly addressed) is practiced.			
Inspection Shop			
• If present, containers are properly labeled and closed.			
• Potential pollutant/potentially exposed material list accurate.			
• Good housekeeping (residual drips/spills promptly addressed) is practiced.			
• Spill supplies are available.			
Drill Collar Inspection Area			
• Drip trays are empty & removed material is removed & properly contained.			
• Used absorbent is properly contained pending disposal.			
• Good housekeeping is practiced.			
• Spill supplies are available.			

**ATTACHMENT 3 -
ANNUAL COMPLIANCE EVALUATION REPORT
(Page 3 of 6)**

SWPPP Section	Yes	No	Comments
Section 3.2, Inventory of Potentially Exposed Material and Potential Pollutants			
Painting			
• Painting performed indoors.			
• Potential pollutant/potentially exposed material list accurate.			
• Paint applied by brush/aerosol can only.			
Bulk Material Storage, Loading and Unloading			
• Following procedures in SWPPP Section 3.3?			
• Potential pollutant/potentially exposed material list accurate.			
• Containers are properly labeled and closed?			
• Good housekeeping (residual drips/spills promptly addressed) is practiced?			
General Material Storage			
• Good housekeeping (residual drips/spills promptly addressed) is practiced?			
• Potential pollutant/potentially exposed material list accurate.			
• Containers are properly labeled and closed?			
General Loading/Unloading			
• Potential pollutant/potentially exposed material list accurate.			
• Good housekeeping (residual drips/spills promptly addressed) is practiced?			
• Personnel performing this task are properly trained?			
Waste Storage			
• Potential pollutant/potentially exposed material list accurate.			
• Waste disposed regularly.			
• Good housekeeping (residual drips/spills promptly addressed) is practiced?			
• Containers are properly labeled and closed?			
Weed Control			
• Removing weeds manually when practical?			
• Using herbicide according to the manufacturer's directions when needed?			

**ATTACHMENT 3 -
ANNUAL COMPLIANCE EVALUATION REPORT
(Page 4 of 6)**

SWPPP Section	Yes	No	Comments
Section 3.3, Bulk Material Storage Area			
• Storage tank usage accurate.			
• Hoses disconnected and valves secure prior to delivery vehicle departure.			
• Vehicle brake engaged during loading/unloading operations.			
• Drip pans used under all connections during loading/unloading.			
• Qualified personnel perform load/unload and present for the duration of transfer.			
• Personnel know to shut off valves and pumps immediately in the event of a spill and to implement the procedures in Section 4.4.			
Section 3.4, Spills and Leaks			
• There were no spills or leaks with the potential to impact storm water since the last revision to the SWPPP			
Section 3.5, Sampling Data			
• Quarterly visual monitoring has been conducted and documented			
• Sampling requirements listed in the Permit have not changed			
• Storm water flow patterns are accurate			
• Storm water outfall locations are accurate			
Section 4.1, Pollution Prevention Team			
• Team member list is correct			
Sections 4.2 – 4.6, Pollution Prevention Measures and Controls			
Good Housekeeping			
• Municipal and Special waste dumpsters emptied regularly.			
• Outdoor storage areas generally clean and equipment generally free of oil/grease coating and stored on pallets.			
Spill Prevention and Response			
• Any RQ spills with the potential to pollute storm water this year.			
• Spill supplies available.			
• Containers clearly marked.			
• New procedures added.			
Sediment and Erosion Control			
• New flow paths with significant sediment or soil erosion.			

**ATTACHMENT 3 -
ANNUAL COMPLIANCE EVALUATION REPORT
(Page 5 of 6)**

SWPPP Section	Yes	No	Comments
Sections 4.2 – 4.6, Pollution Prevention Measures and Controls			
Management of Runoff			
• New management practices or storm water control structures.			
• Storm water drainage direction changed from east-southeast.			
Section 4.7, Inspections			
Quarterly Inspections			
• Inspections documented.			
• Problems discovered in the quarterly inspections promptly addressed.			
Annual Comprehensive Site Compliance Evaluation			
• Reports for the past three (3) years are filed onsite			
• Problems identified in the reports addressed according to the permit requirements			
Section 4.8, Annual Employee Training			
• The training program includes information pertinent to storm water pollution prevention.			
• Training documentation for the past three years are filed onsite			
Section 4.9, Non-Storm Water Certification			
• Non-storm water discharge certification present and no changes observed.			
Section 4.10, Storm Water Pollution Prevention Plan Certification			
• The facility in compliance with the SWPPP			
Section 4.11, Amendments			
• Revision summary table is present, if applicable			

**ATTACHMENT 3 -
ANNUAL COMPLIANCE EVALUATION REPORT
(Page 6 of 6)**

Findings: Complete the appropriate section below

_____ Based on the comprehensive site evaluation, it has been determined that this facility is implementing the elements of the SWPPP and meeting the conditions of the Permit, therefore the facility is in compliance with the SWPPP.

This finding is certified in accordance with Part 9.7.4 of the Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and Title

Date

_____ Based on the comprehensive site evaluation, it has been determined that this facility is **not** implementing the elements of the SWPPP and is **not** meeting the specific conditions of the Permit, therefore the facility is **not** in compliance with the SWPPP.

Notification was provided to the Pollution Prevention Team on _____ by the undersigned.

- **Modifications to the SWPPP must be within 14 days** of the inspection.
- **Implementation of additional BMPs and modifications to existing BMPs should be made prior to the next anticipated storm event but must be made no later than 12 weeks** after completion of the comprehensive site evaluation per Part 4.9.3 of the Permit.

Notification was provided to Sii Environmental Affairs on on _____ by the undersigned.

Name of Person Conducting the Evaluation

Date

**ATTACHMENT 4 -
ANNUAL EMPLOYEE STORM WATER TRAINING**

Directions: The training program addresses the following elements of the SWPPP, as applicable: Good Housekeeping, Spill Prevention and Response, Erosion Control, Maintenance Program for Structural Controls, Best Management Practices (BMPs), and Training. The program is offered on the Sii Intranet. Attendance is tracked electronically. A copy of the print out must be filed with this SWPPP.

Sii Environmental Affairs can provide presentation-based or videotape training to locations with limited access to the Intranet. Use this sign-in sheet to document onsite training. File the completed sheet in Appendix E of the SWPPP.

Training Topics:	Description of Training Program/Materials (e.g. film, newsletter, course, field observation)

Trainer:	Date of Training:
Title:	

Facility Name: Smith Services

Facility Address: 1000 West County Road, Hobbs, NM 88241

ATTENDEES

[illegible]

ATTACHMENT 5 - NON-STORM WATER DISCHARGE CERTIFICATION	Completed by: <u>Bernice Petersen</u> Title: <u>Senior Environmental Coordinator</u> Date: <u>10/07/2004</u>		
Outfalls Directly Observed (Figure 2)	001	002	003
Discharge Evaluation Method	Visual inspection	Visual inspection	Visual inspection
Non-Storm Water Discharge Evaluation Results	No Discharge	No Discharge	No Discharge
Non-Storm Water Discharge Potential Significant Source(s)	Not Applicable	Not Applicable	Not Applicable
CERTIFICATION¹			
<p>"I certify under penalty of law that this document and all attachments were prepared under my supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."</p>			
Maurice Sticker Director, Environmental Affairs	(281) 233-5092 Area Code and Business Phone Number		
 Signature	10/13/04 Date Signed		

Prepared in accordance with Part 4.4 of the National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit for Industrial Activities.

**Non-Storm Water Discharge Assessment
Field Notes**

Location: Smith Services
1000 West County Road
Hobbs, NM 88241

Inspection Date: October 07, 2004

Completed by: Bernice Petersen

Time: 10:00

Last Precipitation: October 5, 2004

Approximate outfall locations are shown on Figure 2 of the Storm Water Pollution Prevention Plan. Storm water drains via sheet flow following the surface gradient to each of the three outfalls.

Outfall 001
Visual inspection. No discharge observed.

Outfall 002
Visual inspection. No discharge observed.

Outfall 003
Visual inspection. No discharge observed.

Signature:



Bernice Petersen

Petersen, Bernice

From: Larsen.Brent@epamail.epa.gov
Sent: Thursday, December 21, 2006 11:16 AM
To: Petersen, Bernice
Subject: Re: Status of Industrial MSGP?

Bernice:

Sorry, MSGP is still not out. We have hit a snag and do not know exactly how much more it will be delayed.

Brent Larsen
Storm Water Coordinator
NPDES Permits Branch
EPA Region 6

"Petersen,
Bernice"
<BPetersen@smith
.com>

Brent Larsen/R6/USEPA/US@EPA

To

cc

12/21/2006 10:12
AM

Subject

Status of Industrial MSGP?

Brent - Has the proposed MSGP for SW discharges from industrial facilities been finalized? The sources I can find on the internet indicate no, but I just want to be sure I am not missing something. Thank you in advance for your response to this inquiry. - Regards, Bernice Petersen

Bernice Petersen, P.G.
Principal Environmental Coordinator
Smith International, Inc.
281.233.5715 (Phone)
281.233.5620 (Fax)

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[021216]



U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
STORM WATER NOTICE OF INTENT CENTER

OPERATOR:

SMITH INTERNATIONAL INC
PO BOX 60068
HOUSTON, TX
77205-0068

FACILITY

SMITH SERVICES
1000 WEST COUNTY ROAD
HOBBS, NM
88241

Dear Operator:

12/30/2002

This letter acknowledges that you have submitted a complete Notice of Intent form to be covered under the *NPDES Storm Water Multi-Sector General Permit for Industrial Activities* issued by EPA on October 30, 2000 (Federal Register – 65 FR 64746). Please note that this letter is not the permit. The permit provides for authorization to discharge based on submission of a *valid* and *complete* Notice of Intent. **If you met the eligibility requirements, coverage begins 48 hours after the postmark date of your Notice of Intent.** Your Notice of Intent was postmarked on 3/22/2002

As stated above, this letter acknowledges receipt of a *complete* Notice of Intent. However, it is not an EPA determination of the *validity* of the information you provided. Your eligibility for coverage under the Permit is based on the validity of the certification you provided. Your signature on the Notice of Intent certifies that you have read, understood, and are implementing all of the applicable requirements. An important aspect of this certification requires that you correctly determine whether you are eligible for coverage under this permit.

As you know, the Multi-Sector General Permit requires you to have developed and begun implementing a Storm Water Pollution Prevention Plan (SWPPP) and outlines important inspection and recordkeeping requirements. You must also comply with any additional location-specific requirements applicable to your state or tribal area. A copy of the Multi-Sector General Permit must be kept with your SWPPP. An electronic copy of the Permit and additional guidance materials can be viewed and downloaded at www.epa.gov/npdes/stormwater.

For tracking purposes, the following number has been assigned to your Notice of Intent Form:

NMR05B143

If you have general questions regarding the storm water program or your responsibilities under the Multi-Sector General Permit, please call Brent Larsen, the Region 06 Storm Water Program contact, at (214) 665-7523. If you have questions about your Notice of Intent form, please call the EPA NOI Processing Center at 1 (866) 352-7755 (toll free) or send an inquiry via the online form at <http://www.epa.gov/npdes/noicontact>.

Sincerely,

EPA NOI Processing Center
Operated by CTGi
1200 Pennsylvania Ave. NW
Mail Code: 4203M
Washington, DC 20460
1-866-352-7755

**Notice of Intent for Storm Water Discharges Associated with
INDUSTRIAL ACTIVITY Under the Multi-sector NPDES General Permit**

Submission of this completed Notice of Intent (NOI) constitutes notice that the entity in Section B intends to be authorized to discharge pollutants to waters of the United States, from the facility or site identified in Section C, under EPA's Storm Water Multi-sector General Permit (MSGP). Submission of the NOI also constitutes notice that the party identified in Section B of this form has read, understands, and meets the eligibility conditions of Part I of the MSGP; agrees to comply with all applicable terms and conditions of the MSGP; understands that continued authorization under the MSGP is contingent on maintaining eligibility for coverage, and that implementation of the permittee's pollution prevention plan is required two days after a complete NOI is mailed. In order to be granted coverage, all information required on this form must be completed. Please read and make sure you comply with all permit requirements, including the requirement to prepare and implement a storm water pollution prevention plan.

A. Permit Selection

If new, enter generic permit, otherwise enter previous permit: NMR05A805

New Permit Number(EPA Use Only)

R05L

B. Facility Operator Information

1. Name: Smith International, Inc 2. Phone: 2814433370

3. Mailing Address: a. Street or P.O. Box: P.O. Box 60068

b. City: Houston c. State: TX d. Zip Code: 77205-0068

C. Facility/Site Information

1.Facility/Site Name: Smith Services

2. Location Address: a. Street: 11010 West County Road

b. City: Hobbs c. County: Lea

d. State: NM e. Zip Code: 88241 f. Latitude: 32 36 34 g. Longitude: 103 07 24

3. If you are filing as a co-permittee, enter storm water general permit number:

4.a. Permit Applicant: ☐ Federal ☐ State ☐ Tribal ☒ Private ☐ Other public entity

b. Is the facility located on Indian Country Lands? ☐ Yes ☒ No

5. Does the facility discharge storm water into:

a. Receiving water(s)? ☐ Yes ☒ No If yes, name(s) of receiving water(s): _____

b. A municipal separate storm sewer system (MS4)? ☒ Yes ☐ No

If yes, name of the MS4 operator: City of Hobbs | | | | |

6. The 4-digit Standard Industrial Classification (SIC) codes or the 2-letter Activity Codes that best represent the principal products produced or services rendered by your facility and major co-located activities:

Primary: 1389 Secondary (if applicable):

7. Applicable sector(s) of industrial activity, as designated in Part 1.2.1 of the MSGP, that include associated discharges that you seek to have covered under this permit (choose up to three):

<input type="checkbox"/> Sector A	<input type="checkbox"/> Sector F	<input type="checkbox"/> Sector K	<input type="checkbox"/> Sector P	<input type="checkbox"/> Sector U	<input type="checkbox"/> Sector Z
<input type="checkbox"/> Sector B	<input type="checkbox"/> Sector G	<input type="checkbox"/> Sector L	<input type="checkbox"/> Sector Q	<input type="checkbox"/> Sector V	<input type="checkbox"/> Sector AA
<input type="checkbox"/> Sector C	<input type="checkbox"/> Sector H	<input type="checkbox"/> Sector M	<input type="checkbox"/> Sector R	<input type="checkbox"/> Sector W	<input type="checkbox"/> Sector AB
<input type="checkbox"/> Sector D	<input checked="" type="checkbox"/> Sector I	<input type="checkbox"/> Sector N	<input type="checkbox"/> Sector S	<input type="checkbox"/> Sector X	<input type="checkbox"/> Sector AC
<input type="checkbox"/> Sector E	<input type="checkbox"/> Sector J	<input type="checkbox"/> Sector O	<input type="checkbox"/> Sector T	<input type="checkbox"/> Sector Y	<input type="checkbox"/> Sector AD

8. Additional Facility/Site Requirements:

a. Based on the instructions provided in Addendum A of the MSGP, have the eligibility criteria for "listed species" and critical habitat been met? ☒ Yes ☐ No

b. Based on the instructions provided in Addendum B of the MSGP, have the eligibility criteria for protection of historic properties been met? ☒ Yes ☐ No

D. Certification

Do you certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted? Based on your inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, do you certify that the information submitted is, to the best of your knowledge and belief, true, accurate, and complete? Do you certify that you are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations?

Print Name: Maurice Sticker

Signature: William E. Stone

Date: 032202

Instructions for Completing the Notice of Intent for Storm Water Discharges Associated with INDUSTRIAL ACTIVITY Under the Multi-sector General Permit

Who Must File a Notice of Intent?

Under the provisions of section 402(p) of the Clean Water Act (CWA) and regulations at 40 CFR Part 122, Federal law prohibits "point source" discharges of storm water associated with industrial activity to waters of the U.S. without a National Pollutant Discharge Elimination System (NPDES) permit. If you operate a facility which is described in Part 1.2.1. of the Multi-sector General Permit (MSGP) or if you have been designated as needing permit coverage for your storm water discharges by your NPDES permitting authority, and you meet the eligibility requirements in Part 1 of the permit, you may satisfy your CWA obligation for permit coverage by submitting a completed NOI to obtain coverage under the MSGP. If you have questions about whether you need a permit under the NPDES Storm Water Program, contact your NPDES permitting authority (i.e., your EPA Regional storm water coordinator or your State water pollution control agency).

One NOI must be submitted for each facility or site for which you are seeking permit coverage. Only one NOI need be submitted to apply for coverage for all of your activities at each facility (e.g., you do not need to submit a separate NOI for each type of industrial activity located at a facility or industrial complex, provided your storm water pollution prevention plan covers each area for which you are an operator). Finally, the NOI must be submitted in accordance with the deadlines established in Part 2.1 of the MSGP.

When to File the NOI Form

DO NOT FILE THE NOI UNTIL YOU HAVE OBTAINED A COPY OF THE MULTI-SECTOR GENERAL PERMIT. You will need it to determine your eligibility, prepare your storm water pollution prevention plan, and correctly answer all questions on the NOI form — all of which must be done before you can sign the certification statement on the NOI in good faith (and without risk of committing perjury).

If you have a new facility or are the new operator of an existing facility, this form must be postmarked at least 48 hours before you need permit coverage. If your facility was covered under the 1995 Multi-sector General Permit or if you are currently operating without a permit, see Part 2.1 of the MSGP for your deadlines. CAUTION: You must allow enough lead time to gather the information necessary to complete the NOI (especially that related to determining eligibility with regards to endangered species and historic properties) and prepare the pollution prevention plan required by Part 4 of the MSGP prior to submitting your NOI.

Where to File the NOI Form

NOIs must be sent to the following address (do not send Storm Water Pollution Prevention Plans (SWPPPs) to this address):

Storm Water Notice of Intent (4203M)
USEPA
1201 Constitution Avenue
Washington, DC 20460

(For overnight/express delivery of NOIs, add the phone number (202) 564-9537)

NOTE: While not currently available, EPA is exploring the possibility of offering the option to complete the NOI form electronically online via the Internet. If this option does become available, directions will be posted on EPA's web site. To check on the availability of the alternative Online NOI, please visit <http://www.epa.gov/owm/sw/>. If the Online NOI is not available, you must file the NOI at the above address.

If your facility discharges through a municipal separate storm sewer system (MS4) that is permitted as a medium or large MS4 under the NPDES Storm Water Program, you must also submit a signed copy of the NOI to the operator of that MS4, in accordance with the deadlines established in Part 2.1 of the permit.

Completing the NOI Form

To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks (abbreviate if necessary to stay within the number of characters allowed for each item). Use one space for breaks between words. Please make sure you have addressed all applicable questions and have made a photocopy for your records before sending the completed form to the address above.

Section A. Permit Selection

If your facility was previously covered by the MSGP 1995 Permit, and you are transferring to the October 29, 2000 version of the MSGP (MSGP 2000), then you must indicate the MSGP 1995 permit number assigned to you by the Storm Water Notice of Intent Center.

If your facility was not previously covered by the MSGP 1995 Permit, and you are applying for new coverage under the MSGP 2000 Permit, you must indicate the "generic" permit number covering your facility area. You will find your generic permit number in the MSGP 2000 Permit, Federal Register, Vol. 65, No. 210, Monday, October 30, 2000, on pages 64802-64803. (As an example, the generic permit number for an industrial site in Puerto Rico would be PR005***.) The MSGP 2000 Permit is available online at <http://www.epa.gov/owm/sw/industry/msgp/msgp2000.pdf>.

Section B. Facility Operator Information

1. Provide the legal name of the person, partnership, co-partnership, firm, company, corporation, association, joint stock company, trust, estate, governmental entity, or other legal entity that operates the facility or site described in this application. The name of the operator may or may not be the same as the name of the facility. The responsible party is the legal entity that controls the facility's operation, rather than the plant or site manager.
2. Provide the telephone number of the facility operator.
3. Provide the mailing address of the facility operator. Include the street address or P.O. Box, city, state, and zip code. All correspondence regarding the permit will be sent to this address, not the facility address in Section C.
4. Indicate the legal status of the facility operator as a Federal, State, Tribal private, or other public entity (other than Federal or State). This refers only to the operator, not the owner or the

land the facility or site is located upon.

Section C. Facility/Site Information

1. Enter the official or legal name of the facility or site.
2. Enter the complete street address (if no street address exists, provide a geographic description (e.g., intersection of Routes 9 and 55)), city, county, state, and zip code. Do not use a P.O. Box. Enter the latitude and longitude of the approximate center of the facility or site in degrees/minutes/seconds. Latitude and longitude can be obtained from U.S. Geological Survey (USGS) quadrangle or topographic maps, by using a GPS unit, by calling 1-(888) ASK-USGS, by searching for your facility's address on several commercial "map" sites on the Internet, or by accessing EPA's web site at <http://www.epa.gov/owm/sw/industry/index.htm> and selecting Latitude and Longitude Finders under the Resources/Permit section.
3. If you are filing as a co-permittee and a storm water general permit number has been issued to the co-permittee, enter the number in the space provided.
4. Indicate whether the facility is located on Indian Country lands (e.g., a federally recognized reservation, etc.).
5. Indicate whether the facility or site discharges storm water into a receiving water(s) and/or a municipal separate storm sewer system (MS4). Enter the name(s) of the closest receiving water(s) and/or the MS4 (An MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that is owned or operated by a state, city, town, borough, county, parish, district, association, or other public body and is designed or used for collecting or conveying storm water.)
6. List your primary and secondary four 4-digit Standard Industrial Classification (SIC) codes or 2-character Activity Codes that best describe the principal products or services provided at the facility or site identified in Section C of this application. For industrial activities defined in 40 CFR 122.26(b)(1)(i)-(ix) and (x) that do not have SIC codes that accurately describe the principal products produced or services provided, use the following 2-character Activity Codes: HZ = Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under subtitle C of RCRA (40 CFR 122.26(b)(1)(vi)); LF = Landfills, land application sites, and open dumps that receive or have received any industrial wastes, including those that are subject to regulation under subtitle D of RCRA (40 CFR 122.26(b)(1)(v)); SE = Steam electric power generating facilities, including coal handling sites (40 CFR 122.26(b)(1)(iv)); TW = Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage (40 CFR 122.26(b)(1)(x)); or Alternatively, if your facility or site was specifically designated by your NPDES permitting authority (EPA), enter "AD."

Section D. Certification

Certification statement and signature. (CAUTION: An unsigned or undated NOI form will prevent the granting of permit coverage.) Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means:

- (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or
- (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor; or

For a municipal, State, Federal, or other public facility: by either a principal executive or ranking elected official.

Paperwork Reduction Act Notice

Public reporting burden for this certification is estimated to average 3.7 hours per certification, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose to provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Office of Environmental Information Services, Collection Services Division (2823), USEPA, 1200 Pennsylvania Avenue, NW, Washington, DC 20460. Include the OMB control number of this form on any correspondence. Do not send the completed NOI form to this address.

INTEROFFICE MEMORANDUM

March 1, 2002

To: File

From: Bernice Petersen

Reference: Notice of Intent (NOI) for Storm Water Discharges Associated with Industrial Activity Under a NPDES General Permit
Endangered Species Determination – Smith Services, 1000 West County Road, Hobbs, NM

In accordance with Addendum H of the NPDES Multi-Sector General Permit, the following Endangered Species evaluation was performed:

Step 1. Are there any endangered species or critical habitat in your county (or other area) and if so, are they in proximity to your facility or discharge locations?

The facility is located in Lea County, New Mexico. A copy of the species list for this county is attached. Three species were identified:

- Bald Eagle (*Haliaeetus leucocephalus*) - Threatened
- Northern Aplomado Falcon (*Falco femoralis*) - Endangered
- Black-Footed Ferret (*Mustela nigripes*) - Endangered

The following species are listed pursuant to the U.S. Fish and Wildlife Service Endangered Species Act and New Mexico Wildlife Conservation Act:

- American Peregrine Falcon (*Falco peregrinus anatum*) - Threatened
- Bell's Vireo (*Vireo bellii*) - Threatened
- Baird's Sparrow (*Ammodramus bairdii*) – Threatened

No critical habitats were listed in 50 CFR 17.95, 50 CFR 17.96 or 50 CFR 226 for Lea County, NM.

Step 2. Determine if any species may be found "in proximity" to the facility. For this evaluation, a species will be considered "in proximity" to a facility's storm water discharge when the species is:

- Located in the path or immediate area through which or over which contaminated point source water flows from industrial activities to the point of discharge into the receiving water.

- Located in the immediate vicinity of, or nearby, the point of discharge into receiving waters.
- Located in the area of the site into which BMPs are planned or are to be constructed."

Endangered species occurrence and habitat information was obtained from the New Mexico Department of Fish and Game web page. Reference material is attached. A summary of findings follows:

Bald Eagle (*Haliaeetus leucocephalus*) Habitat: primarily water oriented, some "dry land" communities between the Pecos Valley and the Sandia/Manzano/Capitan/Sacramento Mountains and on the Mongollon Plateau. These birds require large trees or cliffs near water with a good supply of fish.

Aplomado Falcon (*falco femoralis*) Typically associated with yucca grasslands and adjacent shrubby habitats at lower elevations.

Black-Footed Ferret (*Mustela nigripes*) Habitat: mixed shrub; closely associated with prairie dogs.

American Peregrine Falcon (*Falco peregrinus anatum*) Habitat: wide variety including urban. Preferred hunting in croplands, meadows, river bottoms, marshes and lakes. Breeding locations center on cliffs that are in wooded/forested habitats though they have nested successfully on skyscrapers.

Bell's Vireo (*Vireo bellii*) Habitat: Characteristically occurs in dense shrub land or woodland along lowland stream courses. Insectivore.

Baird's Sparrow (*Ammodramus bairdii*) Habitat: Desert grasslands, prairies, and mountain meadows. Feeds on seeds (grasses in particular) and insects.

The facility is located in an industrial/commercial area. The identified habitats for these species are not located on or adjacent to the site, therefore these species are not expected to be found "in proximity" to the site.

**Endangered Species Evaluation
Smith Services
1000 West County Road, Hobbs, NM 88241**

Reference Material

IV. COUNTY/SPECIES LIST-CONTINUED

[The following list identifies federally listed or proposed U.S. species by State and County. It has been updated through December 31, 1999.]

State/County	Group name	Inverse name	Scientific name	Action/ Status
GRANT	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
		FALCON, NORTHERN APLOMADO	Falco femoralis septentrionalis	E
		FLYCATCHER, SOUTHWESTERN WILLOW	Empidonax traillii extimus	E
		OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T
	FISHES	CHUB, CHIHUAHUA	Gila nigrescens	T
		MINNOW, LOACH	Rhinichthys (=Tiaroga) cobitis	T,CH
		SHINER, BEAUTIFUL	Notropis formosus	T,CH
		SPIKEDACE	Meda fulgida	T,CH
	MAMMALS	TOPMINNOW, GILA (YAQUI)	Poeciliopsis occidentalis	E
		TROUT, GILA	Salmo gila	E
		FERRET, BLACK-FOOTED	Mustela nigripes	E
		WOLF, GRAY	Canis lupus	E,T,CH
GUADALUPE	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
		PLOVER, MOUNTAIN	Charadrius montanus	T
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E
	PLANTS	SUNFLOWER, PECOS	Helianthus paradoxus	T
HARDING	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
		PLOVER, MOUNTAIN	Charadrius montanus	T
HIDALGO	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E
	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
		FALCON, NORTHERN APLOMADO	Falco femoralis septentrionalis	E
		FLYCATCHER, SOUTHWESTERN WILLOW	Empidonax traillii extimus	E
		OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T
	FISHES	PLOVER, MOUNTAIN	Charadrius montanus	T
		MINNOW, LOACH	Rhinichthys (=Tiaroga) cobitis	T,CH
		SPIKEDACE	Meda fulgida	T,CH
	MAMMALS	BAT, LESSER (=SANBORN'S) LONG-NOSED	Leptonycteris sanborni	E
		BAT, MEXICAN LONG-NOSED	Leptonycteris nivalis	E
		FERRET, BLACK-FOOTED	Mustela nigripes	E
		WOLF, GRAY	Canis lupus	E,T,CH
	REPTILES	RATTLESNAKE, NEW MEXICAN RIDGE-NOSED	Crotalus willardi obscurus	T,CH
LEA	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
		FALCON, NORTHERN APLOMADO	Falco femoralis septentrionalis	E
LINCOLN	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E
	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
		FALCON, NORTHERN APLOMADO	Falco femoralis septentrionalis	E
		OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T
		PLOVER, MOUNTAIN	Charadrius montanus	T
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E
LOS ALAMOS	PLANTS	CACTUS, KUENZLER HEDGEHOG	Echinocereus fendleri var. kuenzleri	E
	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
LUNA	MAMMALS	OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T
		FERRET, BLACK-FOOTED	Mustela nigripes	E
	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
		FALCON, NORTHERN APLOMADO	Falco femoralis septentrionalis	E
	FISHES	SHINER, BEAUTIFUL	Notropis formosus	T,CH
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E
MCKINLEY	BIRDS	WOLF, GRAY	Canis lupus	E,T,CH
		EAGLE, BALD	Haliaeetus leucocephalus	T
		OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T
		PLOVER, MOUNTAIN	Charadrius montanus	T
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E
	PLANTS	FLEABANE, ZUNI	Erigeron rhizomatus	T
MORA	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
		OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T
		PLOVER, MOUNTAIN	Charadrius montanus	T

Key: E - Endangered, T - Threatened, CH - Critical Habitat

printed from EPA web page 3/1/02

IV. COUNTY/SPECIES LIST-CONTINUED

[The following list identifies federally listed or proposed U.S. species by State and County. It has been updated through December 31, 1999.]

State/County	Group name	Inverse name	Scientific name	Action/ Status
OTERO	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		FALCON, NORTHERN APLOMADO	<i>Falco femoralis septentrionalis</i>	E
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
		PLOVER, MOUNTAIN	<i>Charadrius montanus</i>	T
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	PLANTS	CACTUS, KUENZLER HEDGEHOG	<i>Echinocereus fendleri</i> var. <i>kuenzleri</i>	E
		PENNYROYAL, TODSEN'S	<i>Hedeoma todsenii</i>	E,CH
		POPPY, SACRAMENTO PRICKLY	<i>Argemone pleiacantha</i> asp. <i>pinnatisecta</i>	E
		THISTLE, SACRAMENTO MOUNTAINS	<i>Cirsium vinaceum</i>	T
QUAY	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
	FISHES	SHINER, ARKANSAS RIVER	<i>Notropis girardi</i>	T
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
RIO ARRIBA	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
		FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
ROOSEVELT	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
SAN JUAN		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
	FISHES	SQUAWFISH, COLORADO	<i>Ptychocheilus lucius</i>	E,CH
		SUCKER, RAZORBACK	<i>Xyrauchen texanus</i>	E,CH
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	PLANTS	CACTUS, KNOWLTON	<i>Pediocactus knowltonii</i>	E
		CACTUS, MESA VERDE	<i>Sclerocactus mesae-verdae</i> (= <i>Pediocactus</i> m.)	T
		MILK-VETCH, MANCOS	<i>Astragalus humillimus</i>	E
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
		PLOVER, MOUNTAIN	<i>Charadrius montanus</i>	T
SAN MIGUEL	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	PLANTS	DOCK, CHIRICAHUA	<i>Rumex orthoneurus</i>	T
		IPOMOPSIS, HOLY GHOST	<i>Ipomopsis sancti-spiritus</i>	E
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
	FISHES	MINNOW, RIO GRANDE SILVERY	<i>Hybognathus amarus</i>	E,CH
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
SANDOVAL	PLANTS	DOCK, CHIRICAHUA	<i>Rumex orthoneurus</i>	T
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
	FISHES	MINNOW, RIO GRANDE SILVERY	<i>Hybognathus amarus</i>	E,CH
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	PLANTS	DOCK, CHIRICAHUA	<i>Rumex orthoneurus</i>	T
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
SANTA FE		FALCON, NORTHERN APLOMADO	<i>Falco femoralis septentrionalis</i>	E
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
	FISHES	TROUT, GILA	<i>Salmo gila</i>	E
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	PLANTS	PENNYROYAL, TODSEN'S	<i>Hedeoma todsenii</i>	E,CH
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		FALCON, NORTHERN APLOMADO	<i>Falco femoralis septentrionalis</i>	E
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
		PLOVER, MOUNTAIN	<i>Charadrius montanus</i>	T
		TERN, INTERIOR (POP) LEAST	<i>Sterna antillarum</i>	E
SIERRA	CRUSTACEAN	ISPOD, SOCORRO	<i>Thermosphaeroma thermophilus</i> (= <i>Exosphaeroma</i>)	E
	FISHES	MINNOW, RIO GRANDE SILVERY	<i>Hybognathus amarus</i>	E,CH
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	SNAILS	SPRINGSNAIL, ALAMOSA	<i>Tryonia alamosae</i>	E
		SPRINGSNAIL, SOCORRO	<i>Pyrgulopsis neomexicana</i>	E
SOCORRO		FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	PLANTS	PENNYROYAL, TODSEN'S	<i>Hedeoma todsenii</i>	E,CH
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		FALCON, NORTHERN APLOMADO	<i>Falco femoralis septentrionalis</i>	E
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
		PLOVER, MOUNTAIN	<i>Charadrius montanus</i>	T
		TERN, INTERIOR (POP) LEAST	<i>Sterna antillarum</i>	E
	CRUSTACEAN	ISPOD, SOCORRO	<i>Thermosphaeroma thermophilus</i> (= <i>Exosphaeroma</i>)	E
	FISHES	MINNOW, RIO GRANDE SILVERY	<i>Hybognathus amarus</i>	E,CH
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E

Key: E - Endangered, T - Threatened, CH - Critical Habitat

IV. COUNTY/SPECIES LIST-CONTINUED

[The following list identifies federally listed or proposed U.S. species by State and County. It has been updated through December 31, 1999.]

State/County	Group name	Inverse name	Scientific name	Action/ Status
TAOS	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
		PLOVER, MOUNTAIN	<i>Charadrius montanus</i>	T
TORRANCE	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
		EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
UNION	BIRDS	PLOVER, MOUNTAIN	<i>Charadrius montanus</i>	T
		FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
		EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
VALENCIA	MAMMALS	PLOVER, MOUNTAIN	<i>Charadrius montanus</i>	T
		FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		OWL, MEXICAN SPOTTED	<i>Strix occidentalis lucida</i>	T
	FISHES	MINNOW, RIO GRANDE SILVERY	<i>Hybognathus amarus</i>	E,CH
	MAMMALS	FERRET, BLACK-FOOTED	<i>Mustela nigripes</i>	E
	PLANTS	SUNFLOWER, PECOS	<i>Helianthus, paradoxus</i>	T

Key: E - Endangered, T - Threatened, CH - Critical Habitat

IV. COUNTY/SPECIES LIST

The following list identifies federally listed or proposed U.S. species by State and County. It has been updated through December 31, 1999. Species listed below with a status of both E and T are generally either endangered or threatened within the specified county. Designation of critical habitat (CH) does not mean that the county constitutes critical habitat, only that critical habitat has been designated for that species (see Addendum A Instructions).

State/County	Group name	Inverse name	Scientific name	Action/Status	
NEW MEXICO					
BERNALILLO	BIRDS	FLYCATCHER, SOUTHWESTERN WILLOW	Empidonax traillii extimus	E	
		EAGLE, BALD	Haliaeetus leucocephalus	T	
		OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T	
	FISHES	MINNOW, RIO GRANDE SILVERY	Hybognathus amarus	E,CH	
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E	
CATRON	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T	
		FLYCATCHER, SOUTHWESTERN WILLOW	Empidonax traillii extimus	E	
		OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T	
	FISHES	MINNOW, LOACH	Rhinichthys (=Tiaroga) cobitis	T,CH	
		SPIKEDACE	Meda fulgida	T,CH	
		TROUT, GILA	Salmo gilae	E	
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E	
	PLANTS	FLEABANE, ZUNI	Erigeron rhizomatus	T	
		DOCK, CHIRICAHUA	Rumex orthoneurus	T	
	CHAVES	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
FALCON, NORTHERN APLOMADO			Falco femoralis septentrionalis	E	
OWL, MEXICAN SPOTTED			Strix occidentalis lucida	T	
TERN, INTERIOR (POP) LEAST			Sterna antillarum	E	
FISHES		GAMBUSIA, PECOS	Gambusia nobilis	E	
		SHINER, PECOS BLUNTNOSE	Notropis simus peconsensis	T,CH	
MAMMALS		FERRET, BLACK-FOOTED	Mustela nigripes	E	
PLANTS		CACTUS, KUENZLER HEDGEHOG	Echinocereus fendleri var. kuenzleri	E	
		SUNFLOWER, PECOS	Helianthus, paradoxus	T	
CIBOLA		BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
	OWL, MEXICAN SPOTTED		Strix occidentalis lucida	T	
	PLOVER, MOUNTAIN		Charadrius montanus	T	
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E	
	PLANTS	SUNFLOWER, PECOS	Helianthus, paradoxus	T	
COLFAX	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T	
		OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T	
		PLOVER, MOUNTAIN	Charadrius montanus	T	
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E	
	CURRY	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
SALMON, COHO (SOUTHERN OREGON/NORTHERN CALIFORNIA COASTS ESU)			Oncorhynchus kisutch	CH	
FERRET, BLACK-FOOTED			Mustela nigripes	E	
MAMMALS		FERRET, BLACK-FOOTED	Mustela nigripes	E	
DE BACA		BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
	SHINER, PECOS BLUNTNOSE		Notropis simus peconsensis	T,CH	
	FERRET, BLACK-FOOTED		Mustela nigripes	E	
	MAMMALS	FERRET, BLACK-FOOTED	Mustela nigripes	E	
	DONA ANA	BIRDS	EAGLE, BALD	Haliaeetus leucocephalus	T
FALCON, NORTHERN APLOMADO			Falco femoralis septentrionalis	E	
OWL, MEXICAN SPOTTED			Strix occidentalis lucida	T	
TERN, INTERIOR (POP) LEAST			Sterna antillarum	E	
MAMMALS		FERRET, BLACK-FOOTED	Mustela nigripes	E	
PLANTS		CACTUS, SNEED PINCUSHION	Coryphantha sneedii var. sneedii	E	
		EAGLE, BALD	Haliaeetus leucocephalus	T	
EDDY		BIRDS	FALCON, NORTHERN APLOMADO	Falco femoralis septentrionalis	E
			OWL, MEXICAN SPOTTED	Strix occidentalis lucida	T
			TERN, INTERIOR (POP) LEAST	Sterna antillarum	E
	FISHES		GAMBUSIA, PECOS	Gambusia nobilis	E
	FISHES	SHINER, PECOS BLUNTNOSE	Notropis simus peconsensis	T,CH	
		FERRET, BLACK-FOOTED	Mustela nigripes	E	
	PLANTS	CACTUS, LEE PINCUSHION	Coryphantha sneedii var. leei	T	
		WILD-BUCKWHEAT, GYPSUM	Eriogonum gypsophilum	T,CH	

Key: E - Endangered, T - Threatened, CH - Critical Habitat

New Mexican Wildlife of Concern - Lea County

Common Name.....	SCIENTIFIC NAME.....	FWS..	NM...	FS.	BLM..	NM...
FWS.		ESA	WCA	E3	EM	Sen
SOC						
Texas Horned Lizard	Phrynosoma cornutum	-	-	S	S	-
Sand Dune Lizard	Sceloporus arenicolus	C	T	-	S	-
Desert Kingsnake	Lampropeltis getula splendida	-	-	S	-	-
Texas Longnose Snake	Rhinocellus lecontei	-	-	S	-	-
Desert Massasauga	Sistrurus catenatus edwardsii	-	-	S	-	-
Mississippi Kite	Ictinia mississippiensis	-	-	S	-	-
Bald Eagle	Haliaeetus leucocephalus	(T) mg	(T)	S	-	-
Swainson's Hawk	Buteo swainsoni	-	-	S	-	-
Ferruginous Hawk	Buteo regalis	-	-	S	S	-
Aplomado Falcon	Falco femoralis septentrionalis	(E) mg	(E)	S	-	-
American Peregrine Falcon	Falco peregrinus anatum	m	(T)	S	-	-
Lesser Prairie-chicken	Tympanuchus pallidicinctus	CW	-	-	S	-
Upland Sandpiper (no data)	Bartramia longicauda	-	-	S	-	-
Western Snowy Plover	Charadrius alexandrinus nivosus	-	-	S	-	-
Mountain Plover	Charadrius montanus	PT	-	S	-	-
Yellow-billed Cuckoo	Coccyzus americanus occidentalis	-	-	S	-	-
Flammulated Owl	Otus flammeolus	-	-	S	-	-
Burrowing Owl	Athene cunicularia hypugaea	-	-	-	S	-
Belted Kingfisher	Ceryle alcyon	-	-	-	S	-
Loggerhead Shrike	Lanius ludovicianus	-	-	-	S	-
Bell's Vireo	Vireo bellii	-	(T)	S	-	-
Gray Catbird	Dumetella carolinensis ruficrissa	-	-	S	-	-
Sprague's Pipit	Anthus spragueii	-	-	S	-	-
American Redstart	Setophaga ruticilla tricolora	-	-	S	-	-
Baird's Sparrow	Ammodramus bairdii	-	(T)	S	S	-
McCown's Longspur	Calcarius mccownii	-	-	S	-	-
Cave Myotis Bat	Myotis velifer	-	-	S	S	S
Black-tailed Prairie Dog	Cynomys ludovicianus ludovicianus	CW m	-	-	S	-
Swift Fox	Vulpes velox velox	-	-	S	-	-
Western Spotted Skunk	Spilogale gracilis	-	-	-	S	-
Sandhill White-tailed Deer	Odocoileus virginianus texana	-	-	-	-	S m

NATIVE WILDLIFE APPARENTLY NO LONGER OCCURRING IN LEA COUNTY

Mexican Gray Wolf
Black-footed Ferret
Merriam's Elk
American Bison

Canis lupus baileyi
Mustela nigripes
Cervus elaphus merriami
Bos bison

(extirpated from NM)
(extinct)

3/1/2002

Critical Habitat

50 CFR 17.95 Critical Habitat - Fish none listed in Lea County NM
50 CFR 17.96 Critical Habitat - Plants none listed in Lea County, NM
50 CFR 226 Chapter II - National Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce
Part 226 designated Critical Habitat
see Table of Contents. None listed in Lea County, NM

ADDITIONAL INFORMATION

This report can be accessed electronically at the New Mexico Department of Game and Fish's website at <http://www.gmfsh.state.nm.us> under "Non Game".

COMPLETE SPECIES ACCOUNTS: Information pertaining to taxonomy, status, distribution, habitat, environmental association, food habits, management practices and references for all vertebrates and selected invertebrates in New Mexico is in a database, the Biota Information System Of New Mexico (BISON), maintained by the New Mexico Department of Game and Fish, Conservation Services Division.

Accounts on the Web at: <http://151.199.74.229/states/nm.htm>

Searches & account links: <http://nmnhp.unm.edu/bisonm/BISONM.CFM>

USFWS accounts: <http://ifw2es.fws.gov/endangeredspecies/lists/ListSpecies.cfm>

or contact Jim Hirsch
Conservation Services Division
New Mexico Department of Game & Fish
P.O. Box 25112
Santa Fe, New Mexico 87504

voice:505-476-8036 fax:505-476-8128
e-mail: jhirsch@state.nm.us

Or NM Department of Game and Fish, Endangered Species Program in Santa Fe at (505) 476-8101.

Information on federal status species is provided as a courtesy only. We suggest you contact the indicated federal agency for specifics regarding the status of these species. Offices: USFWS, Ecological Services Office, Albuquerque; US Forest Service Region 3 Office, Albuquerque; and US Bureau of Land Management State Office, Santa Fe.

Bald Eagle

Comments on General Habitat Associations

The species is primarily water-oriented, and the majority of the populations occurring in New Mexico are found near streams and lakes. On the other hand, there are some "dry land" areas where these eagles occur regularly -- most notably in the region between the Pecos Valley and the Sandia, Manzano, Capitan, and Sacramento mountains, plus on the Mogollon Plateau. The birds typically night-roost in groups in trees, usually in protected sites such as canyons *24*. Bald Eagles were seen in association with open expanses of water. Other than this one requirement, however, the sp. probably occurs in virtually all associated habitats. Birds were most often seen soaring, but on occasion they were also found perched in trees or on snags *45*. Desert Riparian Deciduous Woodland, Marsh. Woodlands, especially of cottonwoods, that occur where desert streams provide sufficient moisture for a narrow band of trees and shrubs along the margins *55*. Annual Grassland, Farms. Grasslands dominated by wild oat (*Avena* spp.), ripgut brome (*Bromus rigidus*), soft chess (*Bromus mollis*), bur clover (*Medicago hispida*), and filaree (*Erodium* spp.) with less than 5 percent wood cover *55*. River, Riparian Woodland, Subalpine Marsh. Occurs at elevations where stream conditions provide sufficient permanent moisture for emergent plants, or for a narrow band of deciduous trees and shrubs; at low elevation characterized by cottonwood and sycamore, at mid-elevation by white alder (*Alnus rhombifolia*) and bigleaf maple (*Acer macrophyllum*), and at high elevation by willow *55*. Mountain and Alpine Meadows. Sedges (*Carex*) and grasslike plants (*Heleocharis*, *Scirpus*) above treeline *55*. Great Basin Shrubsteppe. Open to dense stands of shrubs and low trees, including big sagebrush (*Artemisia tridentata*), saltbush (*atriplex confertifolia*), greasewood (*Sarcobatus vermiculatus*), or creosote bush (*Larrea divaricata*) *55*. They are found in various forest types. Within Douglas fir common associates are western hemlock, western redcedar, true firs, redwood, ponderosa pine, and larch. Within Hemlock-Sitka Spruce common associates are Douglas-fir, silver fir, and western redcedar. In Redwood forests common associates are Douglas-fir, grand fir, and tanoak. This type extends inland and to the reaches of coastal fogs. Ponderosa Pine is associated with white fir. It is usually distributed to the west, north, and east of the Great Basin and the deserts of the Southwest. Western white pine-larch is associated with western redcedar, larch, white fir, Douglas-fir, lodgepole pine, and Englemann spruce. Such admixtures produces the mixed conifer type. The Lodgepole pine is best developed on moist, sandy or gravelly loam. Common associates are subalpine fir, western white pine, Engelmann spruce, aspen, and larch. The fir-spruce forests are the true firs, Engelmann spruce, or Colorado blue spruce. Common associates are lodgepole pine, and at high elevations mountain hemlock. Aspen(hardwoods) or red alder is most common at middle elevations in the Rocky Mountain cordillera, where it is usually succeeded by interior Douglas-fir. Aspen is usually the first to dominate burns and other disturbed areas, where it produces even-aged stands. It has a herbaceous understory, commonly forbs, but sometimes grasses, and sedges. Snowberry, chokeberry, and western serviceberry are common understory shrubs. Chaparral consists of heavily branched dwarfed trees or shrubs, commonly evergreens, whose canopy at maturity covers at least 50 percent of the ground. Common consituent plants include oaks, mountain-mahogany, silktassel, ceanothus, manzanita, and chamise. Pinyon-juniper forests are widely distributed throughout the semiarid West, usually on dry, shallow, rocky, soils of mesas, benches, and canyon walls *55*. These birds require large trees or cliffs near water with a good supply of fish. They winter beside oceans, rivers, lakes, or where carrion is available *58*. Bald eagles are known to use Mixed Shrub and Reservoir habitats on the Zuni Reservation, McKinley County, NM (USFWS, 1980) *54*. ARIZONA 1997: Bald Eagles prefer areas with high amounts of water-to-land edge and where prey is concentrated or generally available; in AZ, they are often associated with open waters, such as lakes and perennial streams. Breeding habitat primarily consists of lakes and rivers within the Sonoran desert; winter habitat is usually lakes within coniferous forests (Haynes and Schuetze, 1997) *106*.

1995: In Gila, Maricopa, and Yavapai counties of central Arizona, there were Bald eagle nests sites on

elevations between 500-1500 m located on 50-100 m cliffs. The trees found at those higher elevation sites are Pinyon-Juniper (*Pinus edulis*-*Juniperus* spp.), Ponderosa Pine (*P. ponderosa*), Cottonwood-Willow series, and mixed broadleaf series (Grubb, 1995) *123*. 1995: Foraging perch use appeared related to position of the sun, with a selection for those sites or times that placed the sun behind the eagle as it viewed the foraging area. Such relative positioning improved visibility above as well as into bodies of water; it also hindered potential prey from detecting the approaching predator. Benefits of shade for thermoregulation at cliff sites may have been a factor in midday perch selection (Grubb, 1995) *123*. 1995: Generally, foraging perches were in southerly directions from forage sites (51% SE-S-SW and 78% E-SE-S-SW-W, N=351). Perches east (NE-E-SE) of foraging sites were used more often before 13:00 h MST (59.3%) and west (SW-W-NW) were used more often after 13:00 (58.4%). Foraging perches averaged 22 m in horizontal distance from the foraging site (range 6-73 m) and 47 m in vertical height above them (range 9-87 m). Most foraging perches (60%) were on cliffs, the dominant habitat feature. Perches in trees (28%; 15% live and 13% dead) and on the ground (12%) were less frequent (Grubb, 1995) *123*. 1995: Of 317 water-oriented foraging attempts or captures 20% were along the shoreline, 43% were between shore and the middle third of the water body, and 37% were in the middle. Sixty-one percent of this foraging occurred at approximately depths of <1.2 m; 20% between 1.2-2.4 m; and 19% deeper than 2.4 m. River foraging predominated (78%), supplemented by 8% reservoir and 14% upland foraging (Grubb, 1995) *123*. Because forest structure (density and height class) determines avian community composition, changes in forest structure lead to changes in avian communities. A stand-replacing fire will, therefore, likely change bald eagle use of a forest. Fires that destroy old-growth forest can reduce eagle populations. If low-intensity, litter-reducing fires are not allowed to burn in old-growth forests, stand-replacing, high intensity crown fires can result. Fires create snags, which are important perches and nesting sites for bald eagles. Snags can possibly increase potential for lightning-caused fire when standing, and when fallen, they increase fuel loading. These increased potentials may be hazardous in areas where fire control for maintaining bald eagle populations is necessary. Catastrophic fires in mature and old-forests can create even aged conditions which may stop continuous snag recruitment (Prescribed Fire and Fire Effects Research Work Unit, 1996) *127*.

Comments on General Habitat Associations

The species has been little observed by recent workers in the U.S., but past records indicate that in New Mexico it has been typically associated with yucca grasslands and adjacent shrubby habitats at lower elevations. The bird is reported to be a rapid and graceful flyer, but it also spends much time perched -- including on the ground. The nest is placed in a tree or shrub, and 2-4 white eggs are laid; these average 44.4 x 35.5 mm in size. The few nests known from New Mexico were in areas of yucca grassland (NMDGF, 1979) *14*. The aplomado falcon is typically a species of open habitats in North and Central America, ranging from coastal prairie and other grasslands through tropical savanna to open woodlands containing oaks (*Quercus*) and pines (*Pinus*). The species has also been reported in desert grasslands (NMDGF, 1991) *15*. A study in northern Mexico found that woody plant density ranged from 11.2-139.5/ha and ground cover ranged from 28.9-69.5% in territories. Six of seven nests were found in yuccas (*Yucca elata*; *Y. torreyi*) the other in honey mesquite (*Prosopis glandulosa*). Nests heights averaged 2.0m (Montoya, 1995) *36*. A study in Texas found the range of post released aplomado falcons varied in size from 36 to 281 sq.km. (Perez, 1995) *37*. In a study in northern Chihuahua, Mexico, aplomado falcon territories were located in desert grassland/savanna. Blue grama (*Bouteloua gracilis*) and tobosa grass (*Hilaria mutica*) were the most abundant grasses at nesting sites in this study (Montoya, et al., 1997) *44*.

Black footed ferret.

Comments on General Habitat Associations

Black-footed Ferrets, *Mustela nigripes*, occur in Mixed Shrub habitat type *27*. Closely associated with the prairie dog whose burrows provide excellent retreats for ferrets. The dependency of the black-footed ferret on this food item is so great that reduction in numbers of ferrets is directly related to reduction in prairie dogs *23*.

Comments on General Habitat Associations

The effect of fire on peregrine falcon habitats is best defined by how it affects their primary prey, other bird species. The California Department of Forestry concluded that peregrine falcons would benefit by chaparral burning if it resulted in an increase of other birds. Studies conducted on chaparral burning concluded that abundant food was available to raptors immediately following fire because of the vulnerability of prey species due to a cover reduction. Bird species richness and diversity increase in the first few years following fire in chaparral communities (Prescribed Fire and Fire Effects Research Work Unit, 1996) *135*. New Mexico: In New Mexico, the breeding territories of peregrine falcons center on cliffs that are in wooded/forested habitats, with large "gulfs" of air nearby in which these predators can forage (Hubbard 1985). The nest sites are typically ledges or potholes, with the 3-4 eggs being laid directly on the bare substrate. The eggs are creamy white, with moderate to very heavy reddish and chestnut speckles and splotches; average egg measurements are 52 x 39 mm (Reed 1965). Incubating birds are generally silent and unobtrusive, and they are easily overlooked. When the young are older or fledged, the adults may boldly react to intruders, including calling sharply with monosyllabic bursts--e.g., kak-kak-kak (Hubbard 1985). Under such conditions, humans should immediately vacate an area and leave the birds in peace *38*. Sporadic occurrence in Bernardo and La Joya refuges -- in association with open expanses of water *58*. They breed in open habitats from tundra, savanna, and seacoasts to high mountains, also open forest, tall buildings *66*. These birds have managed to successfully nest on skyscrapers in large cities where they feed mostly on pigeons *72*. COLORADO: NOW PERSIST MAINLY ON MOUNTAIN CLIFFS AND RIVER GORGES *23*. PREFERRED HUNTING HABITATS- CROPLANDS, MEADOWS, RIVERBOTTOMS, MARSHES AND LAKES *23,27*.

Comments on General Habitat Associations

Colorado: HYDRO: KNOWN TO BREED ALONG THE PLATTE (10190012, 10190018), ARIKAR (10250001), AND REPUBLICAN (10250002, 10250003); POSSIBLY THE ARKANSAS (11020009) *03,10*. FRONT RANGE RECORDS ALL VAGRANTS (1019002,3,4,5,7, AND (11020003) *02*. ALL OTHER HYDROUNITS FALL WITHIN THE KNOWN OR SUSPECTED SPRING/SUMMER RANGE *03,10*. PNV: DISTRIBUTION BY PNV TYPE BASED ON OCCURRENCE ALONG THE ENTIRE EASTERN BORDER OF THE STATE *03*. SAF FOREST COVER TYPES: OCCURS IN A WIDE RANGE OF COVER TYPES WITH COTTONWOOD WILLOW HABITATS, BUT IS DEPENDENT ON SHRUB OR VINE COVER BELOW 3 METERS FOR NESTING, SO GENERALLY IN OPEN CANOPY OR SECOND-GROWTH AREAS *07,08*. NWI HABITAT: DISTRIBUTION DURING THE BREEDING SEASON HIGHLY CORRELATED WITH RIPARIAN HABITATS *07*. New Mexico: In New Mexico this species characteristically occurs in dense shrubland or woodland along lowland stream courses, with willows (*Salix* spp), mesquite (*Prosopis* spp.), and seepwillows (*Baccharis glutinosa*) being characteristic plant species (Hubbard 1985). These vireos feed on insects, moving slowly about for the most part, gleaning food from branches and leaves. The bird itself is inconspicuous, but the song draws attention to its presence. The nest is a cup of grasses and other plant parts, slung between twigs or small stems not far above the ground. The 3-5 eggs are white, speckled with brown; those average 18 x 13 mm (Reed 1965). This is generally the only vireo breeding along lowland streamsides, although other species occur there in migration; gray vireos (*V. vicinior*) may breed on nearby slopes *13*. NONFOREST HABITATS Found in Mojave Desert Scrub; Desert Riparian Deciduous Woodlands, Marshes; Annual Grasslands, Farms: Mojave Desert Scrub -- Located between the Great Basin desert scrub and the Sonoran desert scrub, it is intermediate between them, sharing plant species of both but containing the endemic arboreal leaf succulent, Joshua tree (*Yucca brevifolia*) *29*. Desert Riparian Deciduous Woodland, Marsh -- Woodlands, especially of cottonwoods, that occur where desert streams provide sufficient moisture for a narrow band of deciduous trees and shrubs along the margins *29*. Annual Grasslands, Farms -- Grasslands dominated by wild oat (*Avena* spp.), ripgut brome (*Bromus rigidus*), soft chess (*Bromus mollis*), bur clover (*Medicago hispida*), and filaree (*Erodium* spp.) with less than 5 percent woody cover *29*.

Comments on General Habitat Associations

They breed in shorgrass prairies. *20* As indicated above, this is a retiring sparrow of grasslands. It is usually flushed before it is seen, only to fly a short distance and drop down to disappear again (Hubbard 1985). In New Mexico it has been found in a variety of habitats, ranging from desert grasslands in the south to prairies in the northeast and mountain meadows in the San Juan and Sangre de Cristo mountains--including to an elevation of 3600 m. Migrants arrive as early as the first week of August; this fact and the occurrence of birds in juvenal plumage led to the unfounded suspicion that the bird might breed in the state. By November most appear to have moved farther south, and in spring the species has been seldom detected in the state. Baird's sparrow apparently does not sing in New Mexico, although the short, low-pitched character of the song could cause it to go undetected. The call note is a high chip, perhaps not distinguishable from those of other grassland sparrows. The food consists of seeds and insects, and among the former, grasses may be the most important item (Lane 1968). *01*

Title 50--Wildlife and Fisheries

CHAPTER II--NATIONAL MARINE FISHERIES SERVICE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, DEPARTMENT OF COMMERCE

PART 226--DESIGNATED CRITICAL HABITAT

- 226.101 Purpose and scope.
- 226.201 Critical habitat for Hawaiian monk seals.
- 226.202 Critical habitat for Stellar sea lions.
- 226.203 Critical habitat for Northern right whales.
- 226.204 Critical habitat for Sacramento winter-run chinook salmon.
- 226.205 Critical habitat for Snake River sockeye salmon, Snake River fall chinook salmon, and Snake River spring/summer chinook salmon.
- 226.207 Critical habitat for leatherback turtle.
- 226.208 Critical habitat for green turtle.
- 226.209 Critical habitat for hawksbill turtle.
- 226.210 Central California Coast Coho Salmon (*Oncorhynchus kisutch*), Southern Oregon/Northern California Coasts Coho Salmon (*Oncorhynchus kisutch*).
Critical habitat designation for 19 evolutionary significant units of salmon and steelhead in Washington, Oregon, Idaho, and California.
- 226.212 Critical habitat for Johnson's seagrass.
- APP. Table 1 to Part 226 --Major Stellar Sea Lion Rookery Sites
- APP. Table 2 to Part 226 --Major Stellar Sea Lion Haulout Sites in Alaska
- APP. Table 3 to Part 226 --Hydrologic Units Containing Critical Habitat for Snake River Sockeye Salmon and Snake River Spring/Summer and Fall Chinook Salmon
- APP. Table 5 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Central California Coast Coho Salmon, Tribal Lands Within the Range of the ESU, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 6 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Southern Oregon/Northern California Coasts Coho Salmon, Tribal Lands Within the Range of the ESU, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat

- APP. Table 7 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Puget Sound Chinook Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 8 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Lower Columbia River Chinook Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 9 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Upper Willamette River Chinook Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 10 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Upper Columbia River Spring-run Chinook Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 11 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Central Valley California Spring-run Chinook Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 12 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for California Coastal Chinook Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 13 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Hood Canal Summer-run Chum Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 14 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Columbia River Chum Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 15 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Oregon Coast Coho Salmon, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 16 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Southern California Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 17 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for South-Central California Coast Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 18 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Central California Coast Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat

- APP. Table 19 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Central Valley Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 20 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Upper Columbia River Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 21 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Snake River Basin Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 22 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Lower Columbia River Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 23 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Upper Willamette River Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical Habitat
- APP. Table 24 to Part 226 --Hydrologic Units and Counties Containing Critical Habitat for Middle Columbia River Steelhead, and Dams/Reservoirs Representing the Upstream Extent of Critical

INTEROFFICE MEMORANDUM

March 20, 2002

To: File – Smith Services, 1000 West County Road, Hobbs, NM 88241

From: Bernice Petersen *Bernice*

Subject: National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector
General Permit (MSGP) for Industrial Activities (October 20, 2000)
Historic Properties Evaluation

Smith International, Inc. (Sii) evaluated the occurrence of historic properties or places potentially in the path of the storm water discharge from Smith Services located at 1000 West County Road in Hobbs, TX according to Addendum B of the NPDES MSGP (65 FR 210, October 20, 2000 pages 64746 to 64880). At this time, there are no historic properties or places in the path of the facility's storm water discharge listed in the National Register of Historic Places and New Mexico Office of Cultural Affairs, Historic Preservation Division databases (Attachment A) therefore the facility meets the Historic Properties Eligibility Criteria A under Part 1.2.3.7.1.1 of the NPDES MSGP. Criteria A states:

"Your storm water discharges, and discharge-related activities do not affect a property that is listed or is eligible for listing on the National Register of Historic Places as maintained by the Secretary of the Interior"

ATTACHMENT A

**Smith Services
1000 West County Road, Hobbs, NM**

**Historic Properties Evaluation
Reference Material**

Index By State County

National Register Information System

03/19/2002 09:11:40

No filter

Include filter in navigation ☐


Row	State	County	Resource Name	Address	City	Listed	Multiple
1	NM	Lea	Laguna Plata Archeological District	Address Restricted	Hobbs	1989-09-14	
2	NM	Lea	Lea County Courthouse	100 blk. Main St.	Lovington	1987-12-07	County Courthouses of New Mexico TR
3	NM	Lea	Pyburn House	203 Fourth St.	Lovington	1995-12-13	

Page 1



see
Lea Co.
sites

Lea County Registered Sites

TOWN	PROPERTY NAME	ADDRESS	
	HPD NUM	SR DATE	NR DATE DISTRICT MULTI
Buckeye	Rattlesnake Draw Site		
	167	3/20/70	
Carlsbad	Laguna Plata Archeological District	US 62/180	
	1520	2/9/90	9/14/89
Lovington	Lea County Courthouse	100 Block, Main St.	
	1275	5/9/86	12/7/87 1722
	Pyburn House and Associated Structures	203 N. Fourth St.	
	1593	7/7/94	12/13/95
Maljamar	Baish Oil Well Number One		
	542	1/20/78	
	Taylor Peak Site		
	171	3/20/70	
Monument	Monument Springs Site		
	162	3/20/70	

Thursday, October 19, 2000

Page 1 of 1

New Mexico Office of Cultural Affairs
Historic Preservation Division

<http://museums.state.nm.us/hpd/programs/register/counties/lea.pdf>

INTEROFFICE MEMORANDUM

March 20, 2002

To: File – Smith Services, 1000 West County Road, Hobbs, NM 88241

From: Bernice Petersen *Bernice*

Subject: National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector
General Permit (MSGP) for Industrial Activities (October 20, 2000)
Clean Water Act Section 401 Certification

Introduction

Part 13 of the NPDES MSGP provides modifications or additions to the permit to reflect additional conditions required by the State of New Mexico Clean Water Act Section 401. Additional requirements for storm water discharges from non-Indian lands in the State of New Mexico follow:

- **Part 13.6.2.1** Discharges to water quality impaired/water quality limited [303(d)] waters
- **Part 13.6.2.2** Permit eligibility regarding protection of water quality standards and compliance with state anti-degradation requirements, and
- **Part 13.6.2.3** Report requirements for data generated pursuant to 13.6.2.1.

Storm water from Smith Services at 1000 West County Road in Hobbs, NM flows east-southeast and discharges to an adjacent field. During periods of extended heavy precipitation, water storm water may flow overland from the field to a drainage basin managed by the City of Hobbs. Should the capacity of this basin be exceeded, water could be released to Monument Draw.

Evaluation

Based on the following evaluation, the storm water discharge from Smith Services at 1000 West County Road in Hobbs, NM is authorized by the NPDES MSGP and no additions, conditions or monitoring pursuant to CWA Section 401 are required.

Part 13.6.2.1

- 1. Receiving body watershed.** The Environmental Protection Agency (EPA) Surf You Watershed database was used to determine the watershed receiving the facility's storm water discharge based on the facility zip code. The database indicates the Landreth-Monument Draws Watershed receives the facility's storm water discharge. The Lower Pecos-Red Bluff Reservoir Watershed is downstream.

- 2. Is the receiving water identified on the current 303(d) List as water quality impaired/water quality limited?** A copy of the "2000-2002 State of New Mexico 303(d) List for Assessed Stream and River Reaches" was obtained from the New Mexico Environment Department, Surface Water Quality Bureau (SWQB) Internet site.
 - The Landreth-Monument Draws Watershed is not listed.
 - The Pecos River from the New Mexico-Texas border to Black River is listed for stream bottom deposits and biological criteria (NS at Pecos River near Red Bluff Station).

- 3. Is there a reasonable potential for storm water discharges from the facility to contain pollutants for which the receiving water is impaired?** There is not a reasonable potential for storm water discharges from the facility to contain stream bottom deposits or biological pollutants therefore the conditions cited in Parts 13.6.2.1.1 through 13.6.2.1.4 do not apply to the storm water discharge.

Part 13.6.2.2

Part 13.6.2.2 states:

"Storm water discharges associated with industrial activity to 303(d) waters as well as all other 'waters of the State' that SWQB has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard and/or that do not comply with the applicable anti-degradation provisions of the State's WQS are not authorized by this permit."

The SWQB has not notified this facility that it is contributing to a violation of a water quality standard and/or that does not comply with the applicable anti-degradation provisions of the State's WQS, therefore Part 13.6.2.2 does not apply.

ATTACHMENT A

**Smith Services
1000 West County Road, Hobbs, NM**

**Clean Water Act Section 401 Certification
Reference Material**

Surf Your Watershed



**Locate Your
Watershed**
JOIN DISCUSSIONS
ADD INFORMATION
SEARCH INFORMATION

Atlas

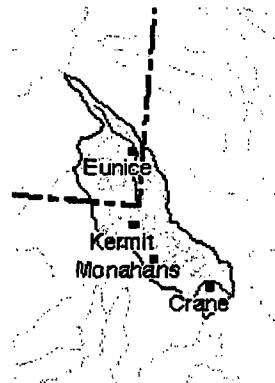
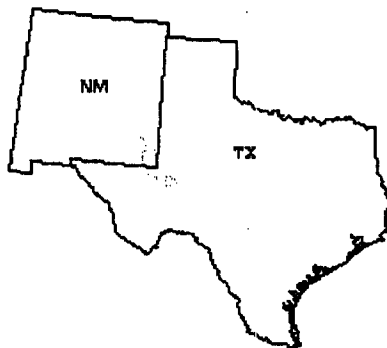
List of Huc Codes Produced by Search

(search for: 88241)

- 13070007 Landreth-Monument Draws; state(s): NM, TX

Landreth-Monument Draws

USGS Cataloging Unit: 13070007



Places Involving this Watershed

States:

- [New Mexico](#)
- [Texas](#)

Counties:

- [Ector](#)
- [Upton](#)
- [Chaves](#)
- [Crane](#)
- [Eddy](#)
- [Lea](#)
- [Loving](#)
- [Ward](#)
- [Andrews](#)
- [Winkler](#)

Metropolitan Areas:

Environmental Profile

Find environmental information integrated for this specific watershed.

Assessments of Watershed Health

[Index of Watershed Indicators](#) (provided by EPA)

[1998 Impaired Water](#) (provided by EPA / State partnership)

Environmental Information

[River Corridors and Wetlands Restoration Efforts](#)

[Environmental Web Sites](#): Facilities regulated by EPA (provided by Envirofacts)

- [Toxic releases](#) (Source: [TRI](#) - Toxic Release Inventory)
- [Hazardous Wastes](#) (Source: [RCRA](#) - Resource Conservation Recovery Act)
- [Superfund Sites](#) (Source: [CERCLA](#) - Comprehensive Environmental Response, Compensation, and Liability Act)

[EnviroMapper for Watersheds](#)- (interactive mapping tool)

Water

- Odessa--
Midland TX

**Nominated
American
Heritage
Rivers:**

- None

**Other
Watersheds:
upstream**

- None

downstream

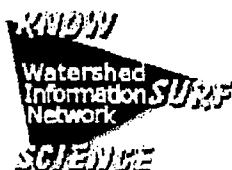
- Lower
Pecos-Red
Bluff
Reservoir

Tribes

- None
Known

**Large
Ecosystems:**

- Great
Plains
Program



Rivers and Streams in this Watershed: 2 (provided by EPA's first River Reach File)

Lakes in the watershed: 35 Total number of watershed acres: 240.2

River and stream miles:

- o No data available :total river miles
- o No data available :perennial river miles
- o No data available :% of total rivers and streams have been surveyed
- o No data available :miles meet all designated uses

The following aquifer's are in this huc:

(Source: USGS Principal Aquifers of the 48 Contiguous United States 1998)

Aquifer	Square Miles	Rock Type
Edwards-Trinity aquifer system	314	Sandstone and carbonate-rock aquifers
Pecos River Basin alluvial aquifer	2050	Unconsolidated sand and gravel aquifers
High Plains aquifer	575	Unconsolidated sand and gravel aquifers
No Principal Aquifer	1354	N/A

Facilities regulated by EPA (provided by Envirofacts)

- o Community Water Sources (Source: SDWIS Safe Drinking Water Information System)
- o Water Dischargers (Source: PCS - Permit Compliance System)

Information provided by the United States Geological Survey (USGS): EXT EPA

- o Stream Flow (Source: USGS)
- o Science in Your Watershed
- o Water use (1990): Information about the amount of water used and how it is used
- o Selected USGS Abstracts

Land

Find watershed information focused on land characteristics

Area: 4278.13 sq mi; perimeter: 392.27 mi

Habitat:

- Forest Riparian Habitat
- Agricultural/Urban Riparian Habitat

People

Find out about local actions in this watershed:

Citizen-based Groups at work in this Watershed (Provided by
Adopt Your Watershed -- Join now)
National Watershed Network (provided by Conservation
Technology Information Center) [EPA](#)

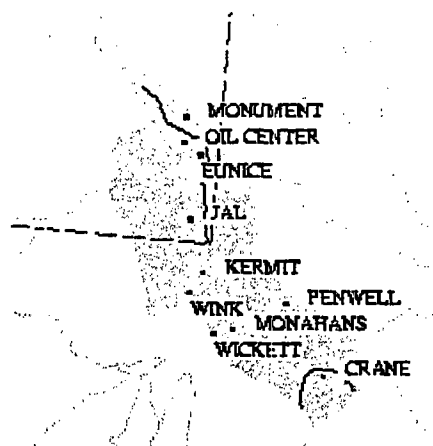
Air

Find information focused on air for this watershed:

Facilities regulated by EPA (provided by [Envirofacts](#))
o [Air](#) (Source: [AIRS](#))

[EPA HOME](#) | [CONTACTS](#) | [DISCLAIMER](#) | [ABOUT](#) | [HELP](#) | [COMMENTS](#)
[TEXT VERSION](#) | [SURF HOME](#)

Revised: Tuesday, March 19, 2002
URL: http://cfpub.epa.gov/surf/huc.cfm?huc_code=13070007



Total Maximum Daily Load (TMDL) Program

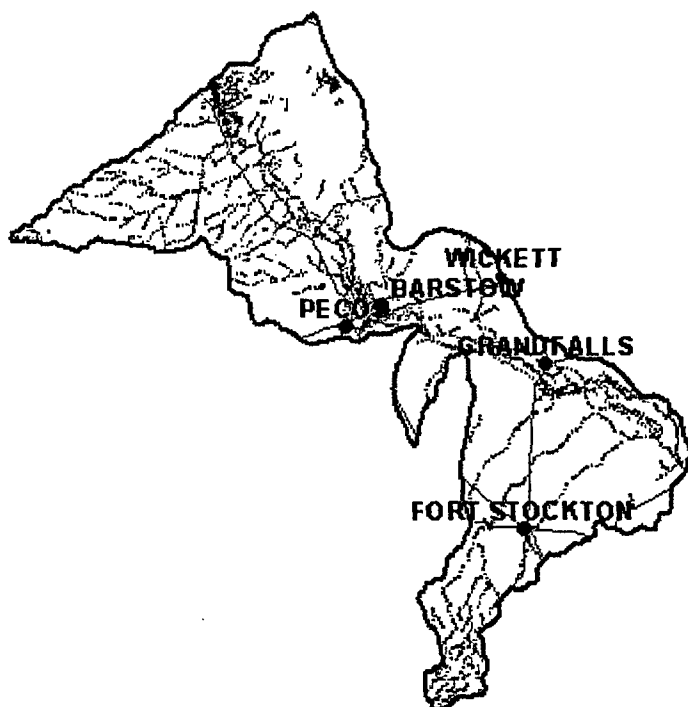
New Mexico TMDL Program

- 11020010 - Purgatoire
- 11040001 - Cimarron Headwaters
- 11080001 - Canadian Headwaters
- 11080002 - Cimarron
- 11080003 - Upper Canadian
- 11080004 - Mora
- 11080005 - Conchas
- 11080006 - Upper Canadian-Ute Reservoir
- 11100101 - Upper Beaver
- 13010005 - Conejos
- 13020101 - Upper Rio Grande
- 13020102 - Rio Chama
- 13020201 - Rio Grande-Santa Fe
- 13020202 - Jemez
- 13020203 - Rio Grande-Albuquerque
- 13020204 - Rio Puerco
- 13020207 - Rio San Jose
- 13020211 - Elephant Butte Reservoir
- 13030101 - Caballo
- 13030102 - El Paso-Las Cruces
- 13030202 - Mimbres
- 13050003 - Tularosa Valley
- 13060001 - Pecos Headwaters
- 13060008 - Rio Hondo
- 13060010 - Rio Penasco
- 13060011 - Upper Pecos-Black
- • 13070001 - Lower Pecos-Red Bluff Reservoir
- 14080101 - Upper San Juan
- 14080105 - Middle San Juan
- 15020004 - Zuni
- 15040001 - Upper Gila
- 15040002 - Upper Gila-Mangas
- 15040003 - Animas Valley
- 15040004 - San Francisco

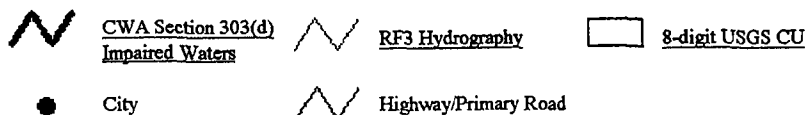
Lower Pecos-Red Bluff Reservoir

Locate Your Watershed
 JOIN DISCUSS
 ADD INFORMATION
 SEARCH INFORMATION

Atlas
 About TMDL
 303(d) List



Legend



Listing state	ID	Waterbody	Parameter of Concern	Priority for TMDL development	Is the Waterbody Targeted for TMDL development before the year April, 2000?	Potential sources of Impai
NM	NM-PR11-10000-1998	PECOS RIVER	STREAM BOTTOM DEPOSITS BIOLOGICAL CRITERIA	8	No	AGRICULTURE, IRRIGA CROP PRODUCTION AGRICULTURE, RANGEI OTHER, NATURAL HYDROMODIFICATION, FLOW REGULATION/MODIFIC/ HYDROMODIFICATION,

						REMOVAL OF RIPARIAN VEGETATION HYDROMODIFICATION, STREAMBANK MOD./DESTABILIZATION
--	--	--	--	--	--	---

2000-2002

State of New Mexico 303(d) List for Assessed Stream and River Reaches

WATER BODY NAME (Reach, segment) EVALUATED OR MONITORED (E/M), SUPPORT STATUS WBS NUMBER	TOTAL SIZE AFFECTED (MILES WITHIN STATE OF NM JURISDICTION)	PROBABLE SOURCE(s) OF POLLUTANT	TMDL SCHEDULE (DATE TMDL DUE)	# OF NPDES PERMITS ON THE REACH	USES NOT FULLY SUPPORTED	SPECIFIC POLLUTANT(s)	TOXICS AT ACUTE LEVELS	TOXICS AT CHRONIC LEVELS	AQUATIC T or E SPECIES ON THE REACH	ACUTE PUBLIC HEALTH CONCERN (YES/NO)	PRIORITY
Bluewater Creek from the mouth on the Rio San Jose to Bluewater Dam (Rio Grande, 2107), E Partially Supported (MRG7-20100)	9.6	Rangeland (1500), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700)	December 31, 2017	0	CWF	Plant nutrients			NO	NO	4
Rio San Jose from USGS gauge at Correo to Horrace Springs (Rio Grande, 2107), E Not Supported (MRG7-10000)	26.4	Rangeland (1500), Unknown (9000), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700)	December 31, 2017	0	DWS, CWF	Stream bottom deposits			NO	NO	4
Rio San Jose from USGS gauge at Correo to Horrace Springs (Rio Grande, 2107), E Not Supported (MRG7-10000)	26.4	Rangeland (1500), Unknown (9000), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700)	December 31, 2017	0	DWS, CWF	Temperature			NO	NO	4
Rio San Jose from USGS gauge at Correo to Horrace Springs ^d (Rio Grande, 2107), E Not Supported (MRG7-10000)	26.4	Rangeland (1500), Unknown (9000)	December 31, 2017	0	DWS, CWF	pH			NO	NO	4
Alamosa Creek, perennial portions above Monticello diversion ditch (Rio Grande, 2103), E Partially Supported (MRG1-10100)	12.2	Unknown (9000)	December 31, 2017	0	MCWF, WWF	Stream bottom deposits			YES Alamosa Spring Snail Endangered	NO	1
Percha Creek from perennial portions above Caballo Reservoir to confluence of Middle and South Forks (Rio Grande, 2103), E Partially Supported (LRG1-10100)	10.5	Unknown (9000)	December 31, 2017	0	MCWF, WWF	Stream bottom deposits			NO	NO	8
Pecos River from Alamosa Canyon to Willow Creek (Pecos River, 2214), M Partially Supported (UPR1-30000)	10.4	Construction (3100, 3200), Resource extraction (5600, 5700), Land disposal (6600), Road maintenance/runoff (8300), Recreation (8701, 8703), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700)	December 31, 2017	1 Libra Fish Hatchery (NM0030121)	HQCWF	Turbidity			NO	NO	2

2000-2002

State of New Mexico 303(d) List for Assessed Stream and River Reaches

WATER BODY NAME (Basin, segment) EVALUATED OR MONITORED (E/M), SUPPORT STATUS WBS NUMBER	TOTAL SIZE AFFECTED (MILES WITHIN STATE OF NM JURISDICTION)	PROBABLE SOURCE(s) OF POLLUTANT	TMDL SCHEDULE (DATE TMDL DUE)	# OF NPDES PERMITS ON THE REACH	USES NOT FULLY SUPPORTED	SPECIFIC POLLUTANT(s)	TOXICS AT ACUTE LEVELS	TOXICS AT CHRONIC LEVELS	AQUATIC T or E SPECIES ON THE REACH	ACUTE PUBLIC HEALTH CONCERN (YES/NO)	PRIORITY
Pecos River from Cañon del Oso to Alamitos Canyon (Pecos River, 2213), M Partially Supported (UPR1-20000)	71.6	Municipal point sources (0200), Rangeland (1500), Recreation (8700), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700)	December 31, 2017	2 Oklahoma Baptist Conference Center (NM0028068) Native American Frog School (NM0029289)	MCWF	Stream bottom deposits			NO	NO	6
Pecos River from the inflow to Sumner Reservoir to Cañon del Oso (Pecos River, 2211), M Partially Supported (UPR-10000)	102.1	Rangeland (1500), Hydromodification (7400)	December 31, 2017	2 Rock Lake Fish Hatchery (NM0030155) Santa Rosa WWTP (NM0024988)	LWWF	Metals		AI	NO	NO	5
Pecos River from Black River to Lower Tansil Dam (Pecos River, 2202), M Partially Supported (PR11-20000)	22.8	Municipal point sources (0200), Agriculture (1201,1500), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700), Unknown (9000)	December 31, 2017	1 Carlsbad (NM0016395)	WWF	Stream bottom deposits			NO	NO	6
Pecos River from the New Mexico-Texas border to Black River (Pecos River, 2201), M Not Supported (PR11-10000)	30.8	Agriculture (1200, 1500), Hydromodification (7400), Natural (8600), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700)	December 31, 2017	0	WWF, IRR, LW	Stream bottom deposits			NO	NO	8
Pecos River from the New Mexico-Texas border to Black River (Pecos River, 2201), M Not Supported (PR11-10000)	30.8	Agriculture (1200, 1500), Hydromodification (7400), Natural (8600), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700)	December 31, 2017	0	WWF, IRR, LW	Biological criteria (NS at Pecos River near Red Bluff Station)			NO	NO	8
Rio Mora from mouth on Pecos River to the headwaters (Pecos River, 2214), M Partially Supported (UPR1-30600)	0.25	Rangeland (1500), Recreation (8700), Removal of Riparian Vegetation (7600), Streambank Modification/Destabilization (7700)	December 31, 2017	0	HQCWF	Stream bottom deposits			NO	NO	4

ATTACHMENT 4
GEOLOGICAL/HYDROGEOLOGICAL INFORMATION

Smith Services
1000 West County Road, Hobbs, NM 88240
Discharge Plan Application

Attachment 4 – Geological/Hydrogeological Information

Surface Water

The facility is located in the Hobbs West, NM United States Geological Survey 7 ½ minute topographic quadrangle (Attachment 1). There are no perennial surface water bodies or streams, groundwater discharge sites (seeps, springs, marshes or swamps), arroyos or canals within one-mile of the facility. Should precipitation sufficient to produce runoff occur, storm water would flow east-southeast from the facility yard to an adjacent field. During periods of extended heavy precipitation, storm water may flow overland toward Marland Avenue thence be conveyed to a detention basin managed by the City of Hobbs. Should the capacity of the detention basin be exceeded, overflow would be discharged to Monument Draw.

Water Wells

Water well location data obtained from the New Mexico Office of the State Engineer (NM OSE) *iWaters* system (attached) showed 10 wells in the quarter-quarter section where the facility is located (NW, NW, 32, 18S, 38E): 1 domestic, 2 production, and 7 sanitary. One of the sanitary wells is located at the facility. Because the facility is situated near the section boundary, well data for the three adjacent quarter-quarter sections were also reviewed:

¼, ¼ Section	Total Wells	Well Type			
		Domestic	Sanitary	Production	Observation
NE, NE, 31	2	1	0	0	1
SW, SW, 29	5	2	2	1	0
SE, SE, 30	6	5	0	0	1

Hydrostratigraphy

The Ogallala Aquifer (Ogallala Formation) underlies the facility and is utilized by Lea County communities for domestic, industrial and agricultural water supplies. According to the NMOSE Lea County Regional Water Plan (Plan) the maximum saturated thickness of the Ogallala aquifer in the Lea County UWB is approximately 250 feet. Local well data gathered via the NMOSE *iWaters* system show well depths in the facility area range from 80 to 172 feet below ground surface (bgs). The depth to water ranges from 26 to 123 feet bgs, with an average depth of 53 ft. bgs. The Lea County Soil Survey (attached) shows the facility area is underlain by up to 5 feet of Portales-Gomez (PG) fine sandy loam – clay loam.

Water Quality

Water quality data from the City of Hobbs Water Utility (attached) show an average total dissolved solids (TDS) concentration of 657.75 milligrams per liter (mg/L). The City of Hobbs municipal well field draws from the Ogallala aquifer.

Flooding Potential

Base flood elevation of 1 to 2 feet is typical for the facility area. The facility maintains no onsite flood protection structures at this time.

**Discharge Monitoring Plan
Smith Services, 1000 West County Road, Hobbs, NM**

**Attachment 4
New Mexico Office of the State Engineer (NMOSE)
iWaters Well Summaries**

**New Mexico Office of the State Engineer
POD Reports and Downloads**

Township: 18S Range: 38E Sections: 32 *NW, NW*

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic ☒ All

POD / Surface Data Report

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POD / SURFACE DATA REPORT 12/21/2006

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest

X Y a:

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	Zone
L 01245	SAN	3	GULF OIL CORP.	L 01245		18S	38E	32	3	1	2	
L 01260	PRO	0	GULF OIL CORPORATION	L 01260		18S	38E	32	1	1	1	
L 01265	PRO	0	GULF OIL CORPORATION	L 01265		18S	38E	32	1	1	1	
L 01565	DOM	3	HARLAN AUSTIN	L 01565 APPRO	Shallow	18S	38E	32	3			
L 02112	DOM	3	JOHNNIE P. CRESS	L 02112	Shallow	18S	38E	32	3	3		
				L 02112 APPRO	Shallow	18S	38E	32	3	3		
L 02161	DOM	3	WELEX JET SERVICES, INC.	L 02161	Shallow	18S	38E	32	3	4		
L 02555	DOM	3	SKELLY OIL COMPANY	L 02555	Shallow	18S	38E	32	3	3	3	
				L 02555 APPRO	Shallow	18S	38E	32	3	3	3	
L 02964	DOM	3	INC. BAKER OIL TOOLS	L 02964	Shallow	18S	38E	32	3	3	4	
				L 02964 APPRO	Shallow	18S	38E	32	3	3	4	
L 03078	DOM	3	MRS. EFFIE LEE MONTGOMERY	L 03078		18S	38E	32	3	3	3	
				L 03078 APPRO EXP		18S	38E	32	3	3	3	
L 03623	MUL	3	CECIL VERNON	L 03623	Shallow	18S	38E	32	3	4	4	
				L 03623 APPRO	Shallow	18S	38E	32	3	4	4	
L 03849	DOM	3	INC. OF N.M. INCE OIL CO.	L 03849		18S	38E	32				
				L 03849 APPRO EXP		18S	38E	32				

New Mexico Office of the State Engineer

L 04187	DOM	3	R. S. WIGGINS	L 04187	Shallow	18S	38E	32	3	3	4
→ L 04321	DOM	3	M. Z. GARRETT	L 04187 APPRO	Shallow	18S	38E	32	3	3	4
L 05431	DOM	0	LEONARD COX	L 04321	Shallow	18S	38E	32	1	1	2
→ L 05736	SAN	3	RUST TRACTOR	L 04321 APPRO	Shallow	18S	38E	32	1	1	2
→ L 05874	SAN	3	STAR TOOL COMPANY	L 05431 EXP		18S	38E	32	3	1	1
→ L 06245	SAN	3	SONNY'S OIL FIELD SERVICE INC.	L 05736	Shallow	18S	38E	32	1		
L 07103	DOM	3	ROY E. SULLIVAN	L 05874	Shallow	18S	38E	32	1	1	
L 07204	DOM	3	JOHNNY BURGESS	L 06245	Shallow	18S	38E	32	1		
L 07461	SAN	3	DARRELL DEMING	L 07103		18S	38E	32	3	3	
L 07534	OBS	0	PHILLIPS PETROLEUM COMPANY	L 07204	Shallow	18S	38E	32	4	4	
				L 07461	Shallow	18S	38E	32	3	4	
L 07535	OBS	0	PHILLIPS PETROLEUM COMPANY	L 07534 EXP		18S	38E	32	4	1	1
				L 07534 EXP 2		18S	38E	32	4	1	1
L 07536	OBS	0	PHILLIPS PETROLEUM COMPANY	L 07535 EXP		18S	38E	32	4	4	1
				L 07535 EXP 2		18S	38E	32	4	4	1
L 07774	DOM	3	ROY LEE NEWMAN	L 07536 EXP		18S	38E	32	2	4	4
L 08050	DOM	3	JOHN COPE	L 07536 EXP 2		18S	38E	32	2	4	4
L 08128	SAN	3	INC NEW-MEX CONSTRUCTION CO.	L 07774	Shallow	18S	38E	32	3	1	1
L 08377	SAN	3	INC. LASCO CONSTRUCTION	L 08050	Shallow	18S	38E	32	3	1	
L 08870	DOM	0	CECIL PEACOCK	L 08128	Shallow	18S	38E	32	3	4	1
L 09390	SAN	3	SOUTHWEST TRAILER EQUIPMENT	L 08377	Shallow	18S	38E	32	3	3	
L 09989	SAN	3	FRANK'S FUELS	L 08870		18S	38E	32	4	1	2
→ L 10035	SAN	3	BALER SERVICE TOOLS	L 09390	Shallow	18S	38E	32	4	4	
→ L 10558	SAN	3	BULL DOG TOOL INC	L 09989	Shallow	18S	38E	32	3		
→ L 10620	SAN	3	BULL DOG TOOL	L 10035	Shallow	18S	38E	32	1		
→ L 11776	SAN	3	WAS, LLC	L 10558	Shallow	18S	38E	32	1	3	4
				L 10620	Shallow	18S	38E	32	1	3	4
				L 11776	Shallow	18S	38E	32	1	3	2

Record Count: 45

NW NW 32 18S 38E
Water Well Detail NM OSE Database (December 21, 2006)

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are biggest to smallest)

① POD Number Tws Rng Sec q q q Zone X Y
 L 01260 18S 38E 32 1 1 1

Driller Licence:	Source:
Driller Name:	Drill Finish Date:
Drill Start Date:	PCW Received Date:
Log File Date:	Pipe Discharge Size:
Pump Type:	Estimated Yield:
Casing Size:	Depth Water:
Depth Well:	

② POD Number Tws Rng Sec q q q Zone X Y
 L 01265 18S 38E 32 1 1 1

Driller Licence:	Source:
Driller Name:	Drill Finish Date:
Drill Start Date:	PCW Received Date:
Log File Date:	Pipe Discharge Size:
Pump Type:	Estimated Yield:
Casing Size:	Depth Water:
Depth Well:	

③ POD Number Tws Rng Sec q q q Zone X Y
 L 04321 18S 38E 32 1 1 2

Driller Licence: 208 VAN NOY, W.L.	Source: Shallow
Driller Name: VAN NOY, W.L.	Drill Finish Date: 04/20/1960
Drill Start Date: 04/18/1960	PCW Received Date:
Log File Date: 04/27/1960	Pipe Discharge Size:
Pump Type:	Estimated Yield:
Casing Size: 5	Depth Water: 45
Depth Well: 110	

Water Bearing Stratifications:	Top	Bottom	Description
	48	110	Shallow Alluvium/Basin Fill

POD Number Tws Rng Sec q q q Zone X Y
 L 04321 APPRO 18S 38E 32 1 1 2

Driller Licence: 208 VAN NOY, W.L.	Source: Shallow
Driller Name:	Drill Finish Date: 04/20/1960
Drill Start Date: 04/18/1960	PCW Received Date:
Log File Date: 04/27/1960	Pipe Discharge Size:
Pump Type:	Estimated Yield:
Casing Size:	Depth Water: 45
Depth Well: 110	

NW NW 32 18S 38E
Water Well Detail NM OSE Database (December 21, 2006)

④ **POD Number** **Tws Rng Sec q q q Zone X Y**
L 05736 18S 38E 32 1

Driller Licence: 281 PRUETT, OTIS H.

Driller Name:

Source: Shallow

Drill Start Date: 08/20/1965

Drill Finish Date: 08/25/1965

Log File Date: 09/23/1965

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 89

Depth Water: 70

⑤ **POD Number** **Tws Rng Sec q q q Zone X Y**
L 05874 18S 38E 32 1 1

Driller Licence: 46 ABBOTT BROTHERS COMPANY

Driller Name:

Source: Shallow

Drill Start Date: 03/02/1966

Drill Finish Date: 03/03/1966

Log File Date: 04/14/1966

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 125

Depth Water: 45

⑥ **POD Number** **Tws Rng Sec q q q Zone X Y**
L 06245 18S 38E 32 1

Driller Licence: 99 O.R. MUSSELWHITE WATER WELL SE

Driller Name:

Source: Shallow

Drill Start Date: 12/29/1967

Drill Finish Date: 12/30/1967

Log File Date: 01/02/1968

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 150

Depth Water: 34

⑦ **POD Number** **Tws Rng Sec q q q Zone X Y**
L 10035 18S 38E 32 1

Driller Licence: 982 EADES, GENE

Driller Name:

Source: Shallow

Drill Start Date: 10/20/1988

Drill Finish Date: 10/20/1988

Log File Date: 02/17/1989

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 150

Depth Water: 65

NW NW 32 18S 38E
Water Well Detail NM OSE Database (December 21, 2006)

⑧ **POD Number** **Tws** **Rng** **Sec** **q** **q** **q** **Zone** **X** **Y**
 L 10558 18S 38E 32 1 3 4

Driller Licence: 1292 BENTLE, BILLY L.
Driller Name: BILLY BENTLE
Drill Start Date: 05/05/1996
Log File Date: 06/09/1997
Pump Type:
Casing Size:
Depth Well: 120

Source: Shallow
Drill Finish Date: 05/15/1996
PCW Received Date:
Pipe Discharge Size:
Estimated Yield:
Depth Water: 80

Meter Number: 6843
Meter Serial Number: 38426949
Number of Dials: 6
Unit of Messure: GALS
Usage Multiplier:

Meter Make: ROCKWELL
Meter Multiplier: 10
Meter Type: Diversion
Return Flow Percent:

Meter Readings (in Acre-Feet)							
Read Date	Year	Mtr_Reading	Flag	Rdr	Comment	Mtr_Amount	YTD_Amount
04/19/2000	2000	231500	A	am	REPORTED READIN	0	
07/05/2000	2000	243710	A	am		0.375	
10/09/2000	2000	265600	A	am		0.672	1.047
04/02/2001	2001	299690	A	jw		1.046	
07/03/2001	2001	317350	A	jw		0.542	1.588
01/02/2002	2002	354300	A	jw		1.134	
04/03/2002	2002	373770	A	jw		0.598	
07/03/2002	2002	393730	A	jw		0.613	
10/01/2002	2002	413200	A	jw		0.598	
12/31/2002	2002	432410	A	jw		0.59	3.533
07/02/2003	2003	464820	A	jw		0.995	
10/31/2003	2003	490120	A	jw		0.776	
12/31/2003	2003	499365	A	jw		0.284	2.055
01/01/2005	2005	57638	A	jw		0	
04/01/2005	2005	59044	A	jw		0.043	
07/05/2005	2005	60573	A	jw		0.047	
10/08/2005	2005	62123	A	RPT		0.048	
01/10/2006	2005	63106	A	RPT		0.03	0.168
04/01/2006	2006	64211	A	RPT		0.034	
07/13/2006	2006	68511	A	RPT		0.132	0.166

NW NW 32 18S 38E
Water Well Detail NM OSE Database (December 21, 2006)

⑨

POD Number Tws Rng Sec q q q Zone X Y
L 10620 18S 38E 32 1 3 4

Driller Licence: 1044 EADES, ALAN G.

Driller Name:

Source: Shallow

Drill Start Date: 12/17/1996

Drill Finish Date: 12/17/1996

Log File Date: 01/30/1997

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 158

Depth Water: 43

Meter Number: 6844

Meter Serial Number: 2097367

Meter Make: MASTERMETER

Number of Dials: 6

Meter Multiplier: 10

Unit of Messure: GALs

Meter Type: Diversion

Usage Multiplier:

Return Flow Percent:

Meter Readings (in Acre-Feet)							
Read Date	Year	Mtr_Reading	Flag	Rdr	Comment	Mtr_Amount	YTD_Amount
04/19/2000	2000	22900	A	am		0	
07/05/2000	2000	22900	A	am		0	
10/09/2000	2000	22900	A	am		0	
01/05/2001	2000	22900	A	am		0	
04/02/2001	2001	22900	A	jw		0	
07/03/2001	2001	22900	A	jw		0	
01/02/2002	2002	23950	A	jw		0.032	
04/03/2002	2002	24200	A	jw		0.0080	
07/03/2002	2002	24200	A	jw		0	
10/01/2002	2002	24210	A	jw		0	
12/31/2002	2002	24220	A	jw		0	0.04
04/01/2003	2003	24900	A	jw		0.021	
07/01/2003	2003	25560	A	jw		0.02	
10/22/2003	2003	26615	R	jw	Meter Rollover	0.032	
12/31/2003	2003	27722	A	jw		0.034	0.107
01/01/2005	2005	35190	A	jw		0	
04/01/2005	2005	36385	A	jw		0.037	
07/05/2005	2005	37736	A	jw		0.041	
10/08/2005	2005	39499	A	RPT		0.054	
01/10/2006	2005	41099	A	RPT		0.049	0.181
04/03/2006	2006	42899	A	RPT		0.055	
07/13/2006	2006	44790	A	RPT		0.058	0.113

NW NW 32 18S 38E
Water Well Detail NM OSE Database (December 21, 2006)

(10) **POD Number** **Tws** **Rng** **Sec** **q** **q** **q** **Zone** **X** **Y**
 L 11776 18S 38E 32 1 3 2

Driller Licence: 1477 M & W WATER WELL SERVICE

Driller Name: MAUCK, ROBERT

Source: Shallow

Drill Start Date: 06/19/2005

Drill Finish Date: 06/20/2005

Log File Date: 06/27/2005

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size: 5.5

Estimated Yield: 30

Depth Well: 120

Depth Water: 58

Water Bearing Stratifications:	Top	Bottom	Description
	38	78	Sandstone/Gravel/Conglomerate
	81	120	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	70	120

Meter Number: 8849

Meter Serial Number: 3599376

Meter Make: MASTER

Number of Dials: 5

Meter Multiplier: 1

Unit of Messure: GALs

Meter Type: Diversion

Usage Multiplier:

Return Flow Percent:

Meter Readings (in Acre-Feet)							
Read Date	Year	Mtr_Reading	Flag	Rdr	Comment	Mtr_Amount	YTD_Amount
07/20/2005	2005	0	A	jw		0	
10/04/2005	2005	914	A	jw		0.0030	
12/31/2005	2005	4327	A	RPT		0.01	0.013
03/31/2006	2006	7560	A	RPT		0.01	
07/20/2006	2006	11325	A	RPT		0.012	
09/29/2006	2006	15176	A	RPT		0.012	0.034

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 18S Range: 38E Sections: 31

NE, NE

NAD27 X: Y: Zone: Search Radius:

County: LE

Basin:

Number:

Suffix:

Owner Name: (First)

(Last)

☐ Non-Domestic ☐ Domestic ☒ All

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POD / SURFACE DATA REPORT 12/21/2006

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)

X Y are in Feet

UTM are 1

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM Zone
L 02564	DOM	3	CLARA FOWLER	L 02564	Shallow	18S	38E	31	1	2	2				13
				L 02564 APPRO	Shallow	18S	38E	31	1	2	2				13
L 04121	DOM	3	EARL E. FOR AIR BASE C MORRIS	L 04121	Shallow	18S	38E	31	4	4	3				13
				L 04121 APPRO		18S	38E	31	4	4	3				13
L 05400	DOM	0	G.D. PARKER	L 05400 EXP		18S	38E	31	3	3					13
L 06684	STK	0	CLARA FOWLER	L 06684 EXP		18S	38E	31	4	4					13
L 07447	DOM	3	EARL E. MORRIS	L 07447	Shallow	18S	38E	31	4	4	3				13
L 07533	OBS	0	PHILLIPS PETROLEUM COMPANY	L 07533 EXP		18S	38E	31	2	4	3				13
				L 07533 EXP 2		18S	38E	31	2	4	3				13
L 09350	DOM	3	KRESS JONES	L 09350	Shallow	18S	38E	31	2						13
L 10327	DOM	3	GREENLEE BENNY	L 10327		18S	38E	31	4	4					13
L 10825	DOM	3	KENNY PLY	L 10825	Shallow	18S	38E	31	3	3	3				13

Record Count: 12

New Mexico Office of the State Engineer
Point of Diversion Summary

Back

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
L 09350	18S	38E	31	2					

Driller Licence: 882 LARRY'S DRILLING & PUMP CO.

Driller Name:

Source: Shallow

Drill Start Date: 10/12/1983

Drill Finish Date: 10/12/1983

Log File Date: 10/25/1983

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 150

Depth Water: 41

New Mexico Office of the State Engineer
Point of Diversion Summary

Back

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
L 07533 EXP	18S	38E	31	2	4	3			

Driller Licence:

Driller Name:

Drill Start Date:

Log File Date:

Pump Type:

Casing Size:

Depth Well:

Source:

Drill Finish Date:

PCW Received Date:

Pipe Discharge Size:

Estimated Yield:

Depth Water:

New Mexico Office of the State Engineer
Point of Diversion Summary

Back

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
L 07533 EXP 2	18S	38E	31	2	4	3			

Driller Licence:		Source:
Driller Name:		
Drill Start Date:		Drill Finish Date:
Log File Date:		PCW Received Date:
Pump Type:		Pipe Discharge Size:
Casing Size:		Estimated Yield:
Depth Well:		Depth Water:

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 18S Range: 38E Sections: 30 *SE, SE*

NAD27 X: Y: Zone: Search Radius:

County: LE

Basin:

Number:

Suffix:

Owner Name: (First)

(Last)

☐ Non-Domestic ☐ Domestic ☒ All

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DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	X Y are in Feet Zone X Y	UTM are i UTM Zone
<u>L 01433</u>	STK	3	ROBERT L. BENSING	<u>L 01433 APPRO</u>		18S	38E	30	2	1	2		13
<u>L 01836</u>	DOM	3	G.W. GOINS	<u>L 01836</u>		18S	38E	30	2	2	1		13
<u>L 02167</u>	DOM	3	AMERADA PETROLEUM CORPORATION	<u>L 02167 DCL</u>		18S	38E	30	1	2	3		13
<u>L 02230</u>	DOM	3	W. H. ELLISON	<u>L 02230</u>	Shallow	18S	38E	30	2	3	3		13
				<u>L 02230 APPRO</u>	Shallow	18S	38E	30	2	3	3		13
<u>L 02244</u>	DOM	3	WILLIAM E. MOON	<u>L 02244</u>	Shallow	18S	38E	30	2	2	1		13
				<u>L 02244 APPRO</u>	Shallow	18S	38E	30	2	2	1		13
<u>L 02261</u>	DOM	3	P. J. BURNETT	<u>L 02261</u>	Shallow	18S	38E	30	2	4	1		13
				<u>L 02261 APPRO</u>	Shallow	18S	38E	30	2	4	1		13
<u>L 02271</u>	DOM	3	G.W. GOINS	<u>L 02271</u>	Shallow	18S	38E	30	2	2	3		13
				<u>L 02271 APPRO</u>	Shallow	18S	38E	30	2	2	3		13
<u>L 02395</u>	PRO	3	AMERADA PETROLEUM CORPORATION	<u>L 02395</u>	Shallow	18S	38E	30	1	2	3		13
				<u>L 02395 APPRO</u>	Shallow	18S	38E	30	1	2	3		13
<u>L 02577</u>	DOM	3	ROBERT E. OWINGS	<u>L 02577</u>	Shallow	18S	38E	30	2	2	2		13
				<u>L 02577 APPRO</u>	Shallow	18S	38E	30	2	2	2		13
				<u>L 02577 REPAR</u>	Shallow	18S	38E	30	1				13
				<u>L 02577 REPAR-EXP</u>		18S	38E	30	2	2	2		13

→ L 02629	DOM	3	L. D. DEVERS	L 02629	Shallow	18S	38E	30	4 4 4	13
L 02660	DOM	3	ONIS KING	L 02660	Shallow	18S	38E	30	2 4 4	13
L 02777	DOM	3	RICARDO GUZMAN	L 02660 APPRO	Shallow	18S	38E	30	2 4 4	13
L 02780	DOM	3	JOHN R. BROWN	L 02777	Shallow	18S	38E	30	2 2 4	13
L 02858	DOM	3	DOUGLAS TEAGUE	L 02777 APPRO	Shallow	18S	38E	30	2 2 4	13
L 02873	DOM	3	PAUL L. RIEVE	L 02780	Shallow	18S	38E	30	2 4 4	13
L 03130	DOM	3	EDWARD R. AND ROSE L MEYER	L 02780 APPRO	Shallow	18S	38E	30	2 4 4	13
L 03136	DOM	3	EVERETT W. BENSING	L 02858	Shallow	18S	38E	30		13
L 03259	DOM	3	JACK E. MERTAUGH	L 02858 APPRO	Shallow	18S	38E	30		13
L 03352	DOM	3	ROBERT D. MOON	L 02873	Shallow	18S	38E	30	2 4 3	13
L 03526	DOM	3	MAX BLAKELEY	L 02873 APPRO	Shallow	18S	38E	30	2 4 4	13
L 03545	EXP	0	W.H. ELLISON	L 03130	Shallow	18S	38E	30	2 2 4	13
				L 03130 APPRO	Shallow	18S	38E	30	2 2 2	13
				L 03136	Shallow	18S	38E	30	1 2 2	13
				L 03136 APPRO	Shallow	18S	38E	30	1 2 2	13
				L 03259	Shallow	18S	38E	30	2 2 1	13
				L 03259 APPRO	Shallow	18S	38E	30	2 2 1	13
				L 03352	Shallow	18S	38E	30	2 2 1	13
				L 03352 APPRO	Shallow	18S	38E	30	2 2 1	13
				L 03526	Shallow	18S	38E	30	2 2 2	13
				L 03526 APPRO	Shallow	18S	38E	30	2 2 2	13
				L 03545 EXP 1	Shallow	18S	38E	30	2	13
				L 03545 EXP 10	Shallow	18S	38E	30	2	13
				L 03545 EXP 11	Shallow	18S	38E	30	2	13
				L 03545 EXP 12	Shallow	18S	38E	30	2	13
				L 03545 EXP 13	Shallow	18S	38E	30	2	13
				L 03545 EXP 2	Shallow	18S	38E	30	2	13
				L 03545 EXP 3	Shallow	18S	38E	30	2	13
				L 03545 EXP 4	Shallow	18S	38E	30	2	13
				L 03545 EXP 5	Shallow	18S	38E	30	2	13
				L 03545 EXP 6	Shallow	18S	38E	30	2	13
				L 03545 EXP 7	Shallow	18S	38E	30	2	13
				L 03545 EXP 8	Shallow	18S	38E	30	2	13
				L 03545 EXP 9	Shallow	18S	38E	30	2	13
L 03650	DOM	3	C. C. THORNBEY	L 03650	Shallow	18S	38E	30	1 1	13
L 03659	DOM	3	G. W. GOINS	L 03650 APPRO	Shallow	18S	38E	30	1 1	13
L 03690	DOM	3	ROBERT L. BENSING	L 03659	Shallow	18S	38E	30	2 2 2	13
L 03737	DOM	3	T. C. BENNETT	L 03690	Shallow	18S	38E	30	2 2 3	13
L 03802	DOM	3	W.H. ELLISON	L 03690 APPRO	Shallow	18S	38E	30	2 2	13
L 03903	DOM	3	R. R. SCOTT	L 03737	Shallow	18S	38E	30	1	13
				L 03737 APPRO	Shallow	18S	38E	30	1	13
				L 03802	Shallow	18S	38E	30	2	13
				L 03802 APPRO	Shallow	18S	38E	30	2	13
				L 03903	Shallow	18S	38E	30	1 2 2	13

L 03904	DOM	3	HAROLD SMITH	L 03903 APPRO	Shallow	18S	38E	30	1	2	2	13
L 03979	DOM	3	W. H. ELLISON	L 03904	Shallow	18S	38E	30	1	1		13
L 03996	DOM	3	THOMAS W. LEUCHIE	L 03904 APPRO	Shallow	18S	38E	30	1	1		13
L 04224	DOM	3	E. C. OLIVER	L 03979	Shallow	18S	38E	30	2	4		13
L 04397	DOM	3	CHURCH OF THE FIRSBORN	L 03979 APPRO	Shallow	18S	38E	30	2	4		13
L 04428	DOM	3	FRANK B. WHITLOCK	L 03996	Shallow	18S	38E	30	2	4		13
L 04438	DOM	3	JOE CONAWAY	L 03996 APPRO	Shallow	18S	38E	30	2	4		13
L 04483	DOM	0	ROBERT BENSING	L 04224	Shallow	18S	38E	30				13
L 04484	DOM	0	HUGH L. DAVIS	L 04397	Shallow	18S	38E	30	2	1	3	13
L 04511	DOM	3	BELL. G. W.	L 04397 APPRO	Shallow	18S	38E	30	2	1	3	13
L 04519	DOM	3	JACK E. MERTAUGH	L 04428	Shallow	18S	38E	30	4	4	1	13
L 04561	DOM	3	GAIL O. BOMAN	L 04428 APPRO	Shallow	18S	38E	30	4	4	1	13
L 04617	DOM	3	B. J. BATES	L 04438	Shallow	18S	38E	30	2	1	2	13
L 04645 AAA	IRR	24	AMADOR AND LETICIA RODRIGUEZ	L 04438 APPRO EXP		18S	38E	30	2	1	2	13
L 04864	DOM	3	ARCHIE SCARBROUGH	L 04483 APPRO EXP		18S	38E	30	2	3	3	13
L 04941	DOM	0	G.W. GOINS	L 04484 APPRO EXP		18S	38E	30	2	3	3	13
L 04962	DOM	3	CLINT MIXON	L 04511	Shallow	18S	38E	30	2	4	3	13
L 05027	DOM	0	JOSEPH O. WALTON	L 04511 APPRO	Shallow	18S	38E	30	2	4	3	13
L 05047	DOM	3	OTHELL GILES	L 04519	Shallow	18S	38E	30	2	2	2	13
L 05084	DOM	3	R.D. VICKERS	L 04519 APPRO	Shallow	18S	38E	30	2	2	2	13
L 05148	SAN	0	N.E. WILLIAMS	L 04561		18S	38E	30	2	1	4	13
L 05162	DOM	0	BILLY J. BATES	L 04561 APPRO EXP		18S	38E	30	2	1	4	13
L 05213	DOM	3	GLENN NANCE	L 04617		18S	38E	30	2	2	2	13
L 05216	DOM	0	A.W. RASH	L 04617 APPRO EXP		18S	38E	30	2	2	2	13
L 05405	DOM	3	WILLIAM FLOYD AYERS	L 04645 AAA		18S	38E	30	2	3	1	13
L 05406	DOM	0	RALPH MESENGER	L 04864		18S	38E	30	2	1	2	13
L 05473	DOM	3	FLOYD AYERS	L 04864 APPRO EXP		18S	38E	30	2	1	2	13
L 05593	DOM	3	TOMMY D. LEHMAN	L 04941 EXP		18S	38E	30	2	4	1	13
L 05596 X E12	PRO	ERROR	MINDMILL OIL COMPANY	L 04962	Shallow	18S	38E	30	1			13
L 05596 X E13	PRO	ERROR	MINDMILL OIL COMPANY	L 05027 APPRO EXP		18S	38E	30	2	3	3	13
L 05596 X E15	PRO	ERROR	MINDMILL OIL COMPANY	L 05047	Shallow	18S	38E	30	2	2		13
L 05596 X E18	PRO	ERROR	MINDMILL OIL COMPANY	L 05084	Shallow	18S	38E	30	4	4	1	13
				L 05148 EXP		18S	38E	30	2	2	4	13
				L 05162 EXP		18S	38E	30	2	2	2	13
				L 05213	Shallow	18S	38E	30	1			13
				L 05216 EXP		18S	38E	30	2	4		13
				L 05405		18S	38E	30				13
				L 05406 EXP		18S	38E	30	1	4	4	13
				L 05473	Shallow	18S	38E	30	3	2	2	13
				L 05593	Shallow	18S	38E	30	2	3	4	13
				L 05596 X E-12		18S	38E	30	2	3	3	13
				L 05596 X E-13		18S	38E	30	2	3	1	13
				L 05596 X E-15		18S	38E	30	2	3	3	13
				L 05596 X E-18		18S	38E	30	2	3	3	13

L 05596 X E20	PRO	ERROR	MINDMILL OIL COMPANY	L 05596 X E-20	18S	38E	30	2	3	3	13
L 05596 X E21	PRO	ERROR	MINDMILL OIL COMPANY	L 05596 X E-21	18S	38E	30	2	3	3	13
L 05596 X E22	PRO	ERROR	WIMILL OIL COMPANY	L 05596 X E-22	18S	38E	30	2	3	3	13
L 05596 X E23	PRO	ERROR	WIMILL OIL COMPANY	L 05596 X E-23	18S	38E	30	2	3	3	13
L 05596 X2E12	PRO	0	MINDMILL OIL COMPANY	L 05596 X-2 E-12	18S	38E	30	2	3	3	13
L 05596 X2E13	PRO	0	MINDMILL OIL COMPANY	L 05596 X-2 E-13	18S	38E	30	2	3	3	13
L 05596 X2E15	PRO	0	MINDMILL OIL COMPANY	L 05596 X-2 E-15	18S	38E	30	2	3	3	13
L 05596 X2E18	PRO	0	MINDMILL OIL COMPANY	L 05596 X-2 E-18	18S	38E	30	2	3	3	13
L 05596 X2E20	PRO	0	MINDMILL OIL COMPANY	L 05596 X-2 E-20	18S	38E	30	2	3	3	13
L 05596 X2E21	PRO	0	MINDMILL OIL COMPANY	L 05596 X-2 E-21	18S	38E	30	2	3	3	13
L 05596 X2E22	PRO	0	WIMILL OIL COMPANY	L 05596 X-2 E-22	18S	38E	30	2	3	3	13
L 05596 X2E23	PRO	0	WIMILL OIL COMPANY	L 05596 X-2 E-23	18S	38E	30	2	3	3	13
L 05624	PRO	0	WINDMILL OIL CO.	L 05624	18S	38E	30	2	3	4	13
L 05624 (E22)	PRO	0	WINDMILL OIL COMPANY	L 05624 (E22)	18S	38E	30	2	3	4	13
L 05624 (E23)	PRO	0	WINDMILL OIL COMPANY	L 05624 (E23)	18S	38E	30	2	3	4	13
L 05628 (E23)	PRO	0	WINDMILL OIL COMPANY	L 05628 (E23)	18S	38E	30	4	1	1	13
L 05628 (E24)	PRO	0	WINDMILL OIL COMPANY	L 05628 (E24)	18S	38E	30	4	1	1	13
L 05629	PRO	0	WINDMILL OIL COMPANY	L 05629	18S	38E	30	4	1	2	13
				L 05629 (35)	18S	38E	30	4	1	2	13
				L 05629 E-33	18S	38E	30	4	1	2	13
L 05629 (E24)	PRO	0	WINDMILL OIL COMPANY	L 05629 (E24)	18S	38E	30	4	1	2	13
L 05629 (E25)	PRO	0	WINDMILL OIL COMPANY	L 05629 (E25)	18S	38E	30	4	1	2	13
L 05630	PRO	0	WINDMILL OIL CO.	L 05630	18S	38E	30	4	1	2	13
L 05630 (E24)	PRO	0	WINDMILL OIL COMPANY	L 05630 (E24)	18S	38E	30	4	1	2	13
L 05657	PRO	0	WINDMILL OIL CO.	L 05657	18S	38E	30	4	1	2	13
L 05657 (E21)	PRO	0	WINDMILL OIL COMPANY	L 05657 (E21)	18S	38E	30	4	1	2	13
L 05657 (E24)	PRO	0	WINDMILL OIL COMPANY	L 05657 (E24)	18S	38E	30	1	0	2	13
L 05657 (E25)	PRO	0	WINDMILL OIL COMPANY	L 05657 (E25)	18S	38E	30	4	1	2	13
L 05666	DOM	3	ALBERT A. WILKS	L 05666	Shallow	18S	38E	30	2		13
L 05678	DOM	3	TOMMY D. LEHMAN	L 05678	Shallow	18S	38E	30	2	3	4
L 05818	PRO	0	AMERADA PETROLEUM CORPORATION	L 05818	Shallow	18S	38E	30	1	4	4
L 05818 (1)	PRO	0	TOM SCHNEIDER	L 05818 (1) EXP	18S	38E	30	1	4	4	13
L 05840	DOM	0	RALPH W. BOARD	L 05840 EXP	18S	38E	30	2	1	4	13
L 05841	DOM	0	FREDDIE Q. MITCHELL	L 05841 EXP	18S	38E	30	3	4	3	13
L 05846	DOM	0	MONTE E. MAYFIELD	L 05846 EXP	18S	38E	30	2	4	1	13
L 05847	DOM	0	D.G. HOFFMAN	L 05847 EXP	18S	38E	30	2	3	2	13
L 05849	PRO	0	AMERADA PETROLEUM CORPORATION	L 05849	Shallow	18S	38E	30	1	4	4
L 05849 (1)	PRO	0	TOM SCHNEIDER	L 05849 (1) EXP	18S	38E	30	1	4	4	13
L 05865 E-12	PRO	ERROR	WINDMILL OIL COMPANY	L 05865 E-12 EXP	18S	38E	30	2	3	3	13
L 05865 E-13	SAN	ERROR	WINDMILL OIL COMPANY	L 05865 E-13 EXP	18S	38E	30	2	3	3	13
L 05865 E-15	PRO	ERROR	WINDMILL OIL COMPANY	L 05865 E-15 EXP	18S	38E	30	2	3	3	13
L 05868 E-12	PRO	ERROR	WINDMILL OIL COMPANY	L 05868 E-12 EXP	18S	38E	30	2	3	3	13
L 05868 E-13	PRO	ERROR	WINDMILL OIL COMPANY	L 05868 E-13 EXP	18S	38E	30	2	3	3	13
L 05868 E-15	PRO	ERROR	WINDMILL OIL COMPANY	L 05868 E-15 EXP	18S	38E	30	2	3	3	13

<u>L 05869 E-12</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05869 E-12 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05869 E-13</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05869 E-13 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05869 E-15</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05869 E-15 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05870</u>	PRO	0	WINDMILL OIL CO.	<u>L 05870</u>	18S	38E	30	2	3	3	13
<u>L 05870 E-12</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05870 E-12 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05870 E-13</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05870 E-13 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05870 E-15</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05870 E-15 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05870 E-18</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05870 E-18 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05870 E-19</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05870 E-19 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05870 E-20</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05870 E-20 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05870 E-22</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05870 E-22 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05870 E-23</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05870 E-23 EXP</u>	18S	38E	30	2	3	3	13
<u>L 05871 E-12</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05871 E-12 EXP</u>	18S	38E	30	4	1	1	13
<u>L 05871 E-13</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05871 E-13 EXP</u>	18S	38E	30	4	1	1	13
<u>L 05871 E-15</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05871 E-15 EXP</u>	18S	38E	30	4	1	1	13
<u>L 05871 E-18</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05871 E-18 EXP</u>	18S	38E	30	4	1	1	13
<u>L 05871 E-19</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05871 E-19 EXP</u>	18S	38E	30	4	1	1	13
<u>L 05871 E-20</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05871 E-20 EXP</u>	18S	38E	30	4	1	1	13
<u>L 05871 E-22</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05871 E-22 EXP</u>	18S	38E	30	4	1	1	13
<u>L 05871 E-23</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05871 E-23 EXP</u>	18S	38E	30	4	1	1	13
<u>L 05887</u>	PRO	0	WINDMILL OIL COMPANY	<u>L 05887</u>	18S	38E	30	2	3	4	13
<u>L 05887 E-12</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05887 E-12 EXP</u>	18S	38E	30	2	3	4	13
<u>L 05887 E-13</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05887 E-13 EXP</u>	18S	38E	30	2	3	4	13
<u>L 05887 E-15</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05887 E-15 EXP</u>	18S	38E	30	2	3	4	13
<u>L 05887 E-18</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05887 E-18 EXP</u>	18S	38E	30	2	3	4	13
<u>L 05887 E-19</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05887 E-19 EXP</u>	18S	38E	30	2	3	4	13
<u>L 05887 E-20</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05887 E-20</u>	18S	38E	30	2	3	4	13
<u>L 05887 E-22</u>	PRO	ERROR	WINMILL OIL COMPANY	<u>L 05887 E-22 EXP</u>	18S	38E	30	2	3	4	13
<u>L 05887 E-23</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 05887 E-23 EXP</u>	18S	38E	30	2	3	4	13
<u>L 05894 (17)</u>	PRO	0	GILBERT FILLMAN	<u>L 05894 (17) EXP</u>	18S	38E	30	2	3	1	13
<u>L 05895 (17)</u>	PRO	0	DAVID WALTON	<u>L 05895 (17)</u>	18S	38E	30	2	3	2	13
<u>L 05895 (18)</u>	PRO	0	DAVID WALTON	<u>L 05895 (18) EXP</u>	18S	38E	30	2	3	2	13
<u>L 05895 (19)</u>	PRO	0	DAVID WALTON	<u>L 05895 (19) EXP</u>	18S	38E	30	2	3	2	13
<u>L 05895 (20)</u>	PRO	0	DAVID WALTON	<u>L 05895 (20) EXP</u>	18S	38E	30	2	3	2	13
<u>L 05895 (21)</u>	PRO	0	DAVID WALTON	<u>L 05895 (21) EXP</u>	18S	38E	30	2	3	2	13
<u>L 05905</u>	DOM	0	LOREN D. BRYAN	<u>L 05905 EXP</u>	18S	38E	30	2			13
<u>L 05906</u>	DOM	0	D. G. HOFFMAN	<u>L 05906 EXP</u>	18S	38E	30	2	4	1	13
<u>L 05911</u>	DOM	0	HARRY M. MCADAMS	<u>L 05911 EXP</u>	18S	38E	30	2			13
<u>L 05925</u>	PRO	0	WINDMILL OIL CO.	<u>L 05925</u>	18S	38E	30	2	3	4	13
<u>L 05925 E-12</u>	PRO	ERROR	WIDMILL OIL COMPANY	<u>L 05925 E-12</u>	18S	38E	30	2	3	4	13
<u>L 05925 E-13</u>	PRO	ERROR	WIDMILL OIL COMPANY	<u>L 05925 E-13</u>	18S	38E	30	2	3	4	13
<u>L 05925 E-15</u>	PRO	ERROR	WIDMILL OIL COMPANY	<u>L 05925 E-15</u>	18S	38E	30	2	3	4	13
<u>L 05925 E-18</u>	PRO	ERROR	WIDMILL OIL COMPANY	<u>L 05925 E-18</u>	18S	38E	30	2	3	4	13
<u>L 05925 E-19</u>	PRO	ERROR	WIDMILL OIL COMPANY	<u>L 05925 E-19</u>	18S	38E	30	2	3	4	13

L 05925 E-20	PRO	ERROR	WIDMILL OIL COMPANY	L 05925 E-20	18S	38E	30	2	3	4	13
L 05925 E-22	PRO	ERROR	WIDMILL OIL COMPANY	L 05925 E-22	18S	38E	30	2	3	4	13
L 05925 E-23	PRO	ERROR	WIDMILL OIL COMPANY	L 05925 E-23	18S	38E	30	2	3	4	13
L 05927	DOM	0	JOYE DOBBS	L 05927 EXP	18S	38E	30	1	3	1	13
L 05928	DOM	0	LOREN D. BRYAN	L 05928 EXP	18S	38E	30	2	4	3	13
L 05929	PRO	0	HILLARD & MAYFIELD HILLARD	L 05929	18S	38E	30	2	4	1	13
L 05929 (1)	PRO	0	HILLARD & MAYFIELD HILLARD	L 05929 (1) EXP	18S	38E	30	2	4	1	13
L 05930	PRO	0	HILLARD & MAYFIELD HILLAR	L 05930	18S	38E	30	2	4	1	13
L 05930 (1)	PRO	0	HILLARD & MAYFIELD HILLAR	L 05930 (1) EXP	18S	38E	30	2	4	1	13
L 05931	PRO	0	HILLARD & MAYFIELD HILLARD	L 05931	18S	38E	30	2	4	1	13
L 05931 (1)	PRO	0	HILLARD & MAYFIELD HILLARD	L 05931 (1) EXP	18S	38E	30	2	4	1	13
L 05932	PRO	0	HILLARD & MAYFIELD HILLARD	L 05932	18S	38E	30	2	4	1	13
L 05932 (1)	PRO	0	HILLARD & MAYFIELD HILLARD	L 05932 (1) EXP	18S	38E	30	3	4	1	13
L 05933	PRO	0	HILLARD & MAYFIELD HILLARD	L 05933	18S	38E	30	2	4	1	13
L 05933 (1)	PRO	0	HILLARD & MAYFIELD HILLARD	L 05933 (1) EXP	18S	38E	30	2	4	1	13
L 05934	PRO	0	HILLARD & MAYFIELD HILLARD	L 05934	18S	38E	30	2	4	1	13
L 05934 (1)	PRO	0	HILLARD & MAYFIELD HILLARD	L 05934 (1) EXP	18S	38E	30	2	4	1	13
L 05935	DOM	0	W. A. COX	L 05935 EXP	18S	38E	30	2	4	1	13
L 05939	PRO	0	L. C. ODELL	L 05939 EXP	18S	38E	30	1	3	1	13
L 05940	DOM	0	HARRY M. MCADAMS	L 05940 EXP	18S	38E	30	2	3		13
L 05941	DOM	0	JOHN W. MONTGOMERY	L 05941 EXP	18S	38E	30	2			13
L 05946 (17)	PRO	0	GILBERT FILMAN	L 05946 (17) EXP	18S	38E	30	2	3	1	13
L 05947 (17)	PRO	0	DAVID WALTON	L 05947 (17) EXP	18S	38E	30	2	3	2	13
L 05947 (18)	PRO	0	DAVID WALTON	L 05947 (18) EXP	18S	38E	30	2	3	2	13
L 05947 (19)	PRO	0	DAVID WALTON	L 05947 (19) EXP	18S	38E	30	2	3	2	13
L 05947 (20)	PRO	0	DAVID WALTON	L 05947 (20) EXP	18S	38E	30	2	3	2	13
L 05948 (17)	PRO	0	DAVID WALTON	L 05948 (17) EXP	18S	38E	30	2	3	2	13
L 05948 (18)	PRO	0	DAVID WALTON	L 05948 (18) EXP	18S	38E	30	2	3	2	13
L 05948 (19)	PRO	0	DAVID WALTON	L 05948 (19) EXP	18S	38E	30	2	3	2	13
L 05948 (20)	PRO	0	DAVID WALTON	L 05948 (20) EXP	18S	38E	30	2	3	2	13
L 05949 (17)	PRO	0	DAVID WALTON	L 05949 (17) EXP	18S	38E	30	2	3	2	13
L 05949 (18)	PRO	0	DAVID WALTON	L 05949 (18) EXP	18S	38E	30	2	3	2	13
L 05949 (20)	PRO	0	DAVID WALTON	L 05949 (20) EXP	18S	38E	30	2	3	2	13
L 05950	DOM	0	W. E. AUM	L 05950 EXP	18S	38E	30	1	1	1	13
L 05960	DOM	0	ROBERT E. OWINGS	L 05960 EXP	18S	38E	30	2	1	2	13
L 05974	DOM	0	RALPH W. BOARD	L 05974 EXP	18S	38E	30	2	1	4	13
L 05993	STK	0	CHARLES E. SEED	L 05993 EXP	18S	38E	30	3	2		13
L 05996 X	PRO	0	WINDMILL OIL COMPANY	L 05996 X EXP	18S	38E	30	2	3	2	13
L 05996 X-2	PRO	ERROR	WINDMILL OIL COMPANY	L 05996 X-2 EXP	18S	38E	30	2	3	2	13
L 06000	PRO	0	WINDMILL OIL CO.	L 06000	18S	38E	30	2	3	4	13
L 06000 E-19	PRO	ERROR	WINDMILL OIL COMPANY	L 06000 E-19 EXP	18S	38E	30	2	3	4	13
L 06000 E-20	PRO	ERROR	WINDMILL OIL COMPANY	L 06000 E-20 EXP	18S	38E	30	2	3	4	13
L 06000 E-22	PRO	ERROR	WINDMILL OIL COMPANY	L 06000 E-22 EXP	18S	38E	30	2	3	4	13
L 06000 E-23	PRO	ERROR	WINDMILL OIL COMPANY	L 06000 E-23 EXP	18S	38E	30	2	3	4	13

<u>L 06014 E-22</u>	PRO	ERROR	WINDMILL	OIL	COMPANY
<u>L 06014 E-23</u>	PRO	ERROR	WINDMILL	OIL	COMPANY
<u>L 06014 E-24</u>	PRO	ERROR	WINDMILL	OIL	COMPANY
<u>L 06014 E-25</u>	PRO	ERROR	WINDMILL	OIL	COMPANY
<u>L 06014 E-26</u>	PRO	ERROR	WINDMILL	OIL	COMPANY
<u>L 06025</u>	PRO	0	WINDMILL	OIL	COMPANY

18S	38E	30	2	3	4
18S	38E	30	2	3	4
18S	38E	30	2	3	4
18S	38E	30	2	3	4
18S	38E	30	2	3	4
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	2
18S	38E	30	4	1	2
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	4	1	1
18S	38E	30	2	3	4
18S	38E	30	2	3	4

<u>L 06025 E-23</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06025 E-33</u>	18S	38E	30	2	3	4	13
<u>L 06025 E-22</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06025 E-23</u>	18S	38E	30	2	3	4	13
<u>L 06025 E-23</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06025 E-22 EXP</u>	18S	38E	30	2	3	4	13
<u>L 06025 E-24</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06025 E-23 EXP</u>	18S	38E	30	2	3	4	13
<u>L 06025 E-25</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 02025 E-24 EXP</u>	18S	38E	30	2	3	4	13
<u>L 06027</u>	PRO	0	WINDMILL OIL CO.	<u>L 06025 E-25 EXP</u>	18S	38E	30	2	3	4	13
<u>L 06027 E-14</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06027</u>	18S	38E	30	2	3	3	13
<u>L 06027 E-15</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06027 E-14 EXP</u>	18S	38E	30	2	3	3	13
<u>L 06027 E-17</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06027 E-15 EXP</u>	18S	38E	30	2	3	3	13
<u>L 06027 E-21</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06027 E-17 EXP</u>	18S	38E	30	2	3	3	13
<u>L 06027 E-22</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06027 E-21 EXP</u>	18S	38E	30	2	3	3	13
<u>L 06027 E-24</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06027 E-22 EXP</u>	18S	38E	30	2	3	3	13
<u>L 06027 E-25</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 06027 E-24 EXP</u>	18S	38E	30	2	3	3	13
<u>L 06032</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06027 E-25 EXP</u>	18S	38E	30	2	3	3	13
<u>L 06032 (1)</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06032 EXP</u>	18S	38E	30	2	4	1	13
<u>L 06033</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06032 (1)</u>	18S	38E	30	2	4		13
<u>L 06034 (1)</u>	PRO	0	HILLARD, MAYFIELD HILLARD	<u>L 06033 EXP</u>	18S	38E	30	2	4	1	13
<u>L 06035</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06034 (1) EXP</u>	18S	38E	30	2	4		13
<u>L 06035 (1)</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06035 EXP</u>	18S	38E	30	2	4	2	13
<u>L 06036</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06035 (1) EXP</u>	18S	38E	30	2	4		13
<u>L 06036 (1)</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06036 EXP</u>	18S	38E	30	2	4	1	13
<u>L 06037</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06036 (1) EXP</u>	18S	38E	30	2	4		13
<u>L 06037 (1)</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06037 EXP</u>	18S	38E	30	2	4	1	13
<u>L 06038</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06037 (1) EXP</u>	18S	38E	30	2	4		13
<u>L 06038 (1)</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06038 EXP</u>	18S	38E	30	2	4	1	13
<u>L 06040</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06038 (1) EXP</u>	18S	38E	30	2	4		13
<u>L 06041</u>	PRO	0	HILLARD & MAYFIELD HILLARD	<u>L 06040 EXP</u>	18S	38E	30	2	4	1	13
<u>L 06124</u>	PRO	3	JAMES W. SNOW	<u>L 06041 EXP</u>	18S	38E	30	2	4	1	13
<u>L 06150</u>	PRO	0	CHARLES E. SEED	<u>L 06124</u>	18S	38E	30	2	1		13
<u>L 06150 (1)</u>	PRO	0	CHARLES E. SEED	<u>L 06150 EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 -X</u>	PRO	0	CHARLES E. SEED	<u>L 06150 (1) EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 -X-2</u>	PRO	ERROR	CHARLES E. SEED	<u>L 06150 -X EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 -X-3</u>	PRO	ERROR	CHARLES E. SEED	<u>L 06150 -X-2 EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 -X-4</u>	PRO	ERROR	CHARLES E. SEED	<u>L 06150 -X-3 EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 X (1)</u>	PRO	ERROR	CHARLES E. SEED	<u>L 06150 -X-4 EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 X-5</u>	PRO	ERROR	CHARLES E. SEED	<u>L 06150 -X (1) EX</u>	18S	38E	30	3	2	2	13
<u>L 06150 X-6</u>	PRO	ERROR	CHARLES E. SEED	<u>L 06150 X-5 EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 X-7</u>	PRO	ERROR	CHARLES E. SEED	<u>L 06150 -X-6 EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 X-8</u>	PRO	ERROR	CHARLES E. SEED	<u>L 06150 -X-7 EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 X2 (1)</u>	PRO	0	CHARLES E. SEED	<u>L 06150 -X-8 EXP</u>	18S	38E	30	3	2	2	13
<u>L 06150 X3 (1)</u>	PRO	0	CHARLES E. SEED	<u>L 06150 -X-2 (1)</u>	18S	38E	30	3	2	2	13
<u>L 06150 X4 (1)</u>	PRO	0	CHARLES E. SEED	<u>L 06150 -X-3 (1)</u>	18S	38E	30	3	2	2	13
<u>L 06176 (16)</u>	PRO	0	GILBERT FILLMAN	<u>L 06150 -X-4 (1)</u>	18S	38E	30	3	2	4	13
				<u>L 06176 (16) EXP</u>	18S	38E	30	2	3	1	13

Shallow

L 06177 (16)	PRO	0	GILBERT FILLMAN	L 06177 (16) EXP	18S	38E	30	2	3	1	13
L 06178 (16)	PRO	0	GILBERT FILLMAN	L 06178 (16) EXP	18S	38E	30	2	3	2	13
L 06178 (17)	PRO	0	DAVID WALTON	L 06178 (17) EXP	18S	38E	30	2	3	2	13
L 06178 (18)	PRO	0	DAVID WALTON	L 06178 (18) EXP	18S	38E	30	2	3	2	13
L 06178 (19)	PRO	0	DAVID WALTON	L 06178 (19) EXP	18S	38E	30	2	3	2	13
L 06178 (20)	PRO	0	DAVID WALTON	L 06178 (20) EXP	18S	38E	30	2	3	2	13
L 06179 (16)	PRO	0	DAVID WALTON	L 06179 (16) EXP	18S	38E	30	2	3	2	13
L 06179 (17)	PRO	0	DAVID WALTON	L 06179 (17)	18S	38E	30	2	3	2	13
L 06179 (18)	PRO	0	DAVID WALTON	L 06179 (18) EXP	18S	38E	30	2	3	2	13
L 06179 (19)	PRO	0	DAVID WALTON	L 06179 (19) EXP	18S	38E	30	2	3	2	13
L 06179 (20)	PRO	0	DAVID WALTON	L 06179 (20) EXP	18S	38E	30	2	3	2	13
L 06200	PRO	0	WINDMILL OIL CO.	L 06200	18S	38E	30	2	3	3	13
L 06200 E-12	PRO	ERROR	WINDMILL OIL COMPANY	L 06200 E-12 EXP	18S	38E	30	1	3	3	13
L 06200 E-13	PRO	ERROR	WINDMILL OIL COMPANY	L 06200 E-13 EXP	18S	38E	30	2	3	3	13
L 06200 E-15	PRO	ERROR	WINDMILL OIL COMPANY	L 06200 E-15 EXP	18S	38E	30	2	3	3	13
L 06200 E-18	PRO	ERROR	WINDMILL OIL COMPANY	L 06200 E-18 EXP	18S	38E	30	2	3	3	13
L 06200 E-19	PRO	ERROR	WINDMILL OIL COMPANY	L 06200 E-19 EXP	18S	38E	30	2	3	3	13
L 06200 E-20	PRO	ERROR	WINDMILL OIL COMPANY	L 06200 E-20 EXP	18S	38E	30	2	3	3	13
L 06200 E-22	PRO	ERROR	WINDMILL OIL COMPANY	L 06200 E-22 EXP	18S	38E	30	2	3	3	13
L 06200 E-23	PRO	ERROR	WINDMILL OIL COMPANY	L 06200 E-23 EXP	18S	38E	30	2	3	3	13
L 06291	IRR	10.08	JODY POWERS	L 06291	18S	38E	30	2	3	2	13
L 06365 (15)	PRO	0	DAVID WALTON	L 06365 (15) EXP	18S	38E	30	2	3	2	13
L 06365 (16)	PRO	0	DAVID WALTON	L 06365 (16) EXP	18S	38E	30	2	3	2	13
L 06365 (17)	PRO	0	DAVID WALTON	L 06365 (17) EXP	18S	38E	30	2	3	2	13
L 06365 (18)	PRO	0	DAVID WALTON	L 06365 (18) EXP	18S	38E	30	2	3	2	13
L 06365 (19)	PRO	0	DAVID WALTON	L 06365 (19) EXP	18S	38E	30	2	3	2	13
L 06514	PRO	0	C/O OIL REPORTS & GAS SER WIND	L 06514	18S	38E	30	2	3	3	13
L 06514 X E18	PRO	ERROR	WINDMILL OIL COMPANY	L 06514 X E-18 EX	18S	38E	30	2	3	4	13
L 06514 X E19	PRO	ERROR	WINDMILL OIL COMPANY	L 06514 X E-19 EX	18S	38E	30	2	3	4	13
L 06514 X E20	PRO	ERROR	WINDMILL OIL COMPANY	L 06514 X E-20 EX	18S	38E	30	2	3	4	13
L 06514 X E21	PRO	ERROR	WINDMILL OIL COMPANY	L 06514 X E-21 EX	18S	38E	30	2	3	4	13
L 06514 X2E18	PRO	0	WINDMILL OIL COMPANY	L 06514 X-2 E-18	18S	38E	30	2	3	4	13
L 06514 X2E19	PRO	0	WINDMILL OIL COMPANY	L 06514 X2 E19 EX	18S	38E	30	2	3	4	13
L 06514 X2E20	PRO	0	WINDMILL OIL COMPANY	L 06514 X2 E20 EX	18S	38E	30	2	3	4	13
L 06514 X2E21	PRO	0	WINDMILL OIL COMPANY	L 06514 X2 E21 EX	18S	38E	30	2	3	4	13
L 06518	DOM	0	MRS. VIRGIL WITTMAN	L 06518 EXP	18S	38E	30	2	4		13
L 06527	PRO	0	CHARLES E. SEED	L 06527 EXP	18S	38E	30	3	2	1	13
L 06971	PRO	3	WINDMILL OIL COMPANY	L 06971	18S	38E	30	4	1	2	13
L 06971 E-17	PRO	ERROR	WINDMILL OIL COMPANY	L 06971 E-17 EXP	18S	38E	30	4	1	2	13
L 06971 E-18	PRO	ERROR	WINDMILL OIL COMPANY	L 06971 E-18 EXP	18S	38E	30	4	1	2	13
L 06972	PRO	3	WINDMILL OIL COMPANY	L 06972	18S	38E	30	4	1	2	13
				L 06972 2	18S	38E	30	4	1	1	13
L 06972 E-17	PRO	ERROR	WINDMILL OIL COMPANY	L 06972 E-17 EXP	18S	38E	30	4	1	2	13
L 06972 E-18	PRO	ERROR	WINDMILL OIL COMPANY	L 06972 E-18 EXP	18S	38E	30	4	1	2	13

L 06973 E-17	PRO	ERROR	WINDMILL OIL COMPANY	L 06973 E-17 EXP	18S	38E	30	4	1	2	13
L 06973 E-18	PRO	ERROR	WINDMILL OIL COMPANY	L 06973 E-18 EXP	18S	38E	30	4	1	2	13
L 06974 E-17	PRO	ERROR	WINDMILL OIL COMPANY	L 06974 E-17 EXP	18S	38E	30	4	1	2	13
L 06974 E-18	PRO	ERROR	WINDMILL OIL COMPANY	L 06974 E-18 EXP	18S	38E	30	4	1	2	13
L 06975	PRO	3	WINDMILL OIL COMPANY	L 06975	18S	38E	30	4	1	1	13
L 06975 E-17	PRO	ERROR	WINDMILL OIL COMPANY	L 06975 E-17 EXP	18S	38E	30	4	1	1	13
L 06975 E-18	PRO	ERROR	WINDMILL OIL COMPANY	L 06975 E-18 EXP	18S	38E	30	4	1	1	13
L 06993	PRO	0	WINDMILL OIL COMPANY	L 06993 2	18S	38E	30	4	1	2	13
L 06993 E-18	PRO	ERROR	WINDMILL OIL COMPANY	L 06996 E-18 EXP	18S	38E	30	4	1	1	13
L 06996	PRO	0	WINDMILL OIL COMPANY	L 06996	18S	38E	30	4	1	2	13
L 06996 E-17	PRO	ERROR	WINDMILL OIL COMPANY	L 06996 E-17 EXP	18S	38E	30	4	1	2	13
L 07245	DOM	3	VIRGIL WITTMAN	L 07245	Shallow	18S	38E	30	2	4	13
L 07286	DOM	3	ARLISS BIRDSELL	L 07286	Shallow	18S	38E	30	2	1	2
L 07532	OBS	0	PHILLIPS PETROLEUM COMPANY	L 07532 EXP	18S	38E	30	4	4	3	13
				L 07532 EXP 2	18S	38E	30	4	4	3	13
L 07597	DOM	3	FRANK PEARCE	L 07597	Shallow	18S	38E	30	1	2	13
L 07602	DOM	3	FLOYD AYERS	L 07602	Shallow	18S	38E	30	2	3	3
L 07732	DOM	3	JOYE DOBBS	L 07732	Shallow	18S	38E	30	1	2	13
L 07962	DOM	3	DUDLEY H. HOLLAND	L 07962	Shallow	18S	38E	30	2	3	2
L 08018	DOM	3	ROBERT E. OWINGS	L 08018	18S	38E	30	2	2	2	13
L 08036	DOM	3	JOE B. CONAWAY	L 08036	Shallow	18S	38E	30	2	1	1
L 08391	DOM	3	DICK CHRISTIAN	L 08391	Shallow	18S	38E	30	3	2	13
L 08445	DOM	3	KENDALL LATHRAM	L 08445	Shallow	18S	38E	30	2	1	13
L 08447	MUL	3	JOE B. CONAWAY	L 08447	Shallow	18S	38E	30	2	1	13
L 08545	DOM	0	JOE B. CONAWAY	L 08545 EXP	18S	38E	30	2	1	13	
L 08546	DOM	0	JOE B. CONAWAY	L 08546 EXP	18S	38E	30	2	1	13	
L 08928	DOM	3	DAVID WALTON	L 08928	Shallow	18S	38E	30	2	3	13
L 09115	DOM	3	ARLISS W. BIRDSELL	L 09115	Shallow	18S	38E	30	2	1	1
L 09183	DOM	0	FLOYD PITTMAN	L 09183 EXP	18S	38E	30	2	4	1	13
L 09273	DOM	3	JOE SMITH	L 09273	Shallow	18S	38E	30	2	13	
L 09431	DOM	3	KENDALL W. LATHRAM	L 09431	Shallow	18S	38E	30	2	1	1
L 09662	DOM	3	D. D. DOBBS	L 09662	Shallow	18S	38E	30	1	4	2
L 09787	DOM	3	GARNICE-LAND-JR	L 09787	Shallow	18S	38E	30	2	13	
L 09936	PRO	0	WINDMILL OIL COMPANY	L 09936	Shallow	18S	38E	30	4	1	1
L 09936 (E-1)	PRO	ERROR	WINDMILL OIL COMPANY	L 09936 (E-1) EXP	18S	38E	30	4	1	1	13
L 09936 (E-2)	PRO	ERROR	WINDMILL OIL COMPANY	L 09936 (E-2) EXP	18S	38E	30	4	1	1	13
L 09936 (E-3)	PRO	ERROR	WINDMILL OIL COMPANY	L 09936 (E-3) EXP	18S	38E	30	4	1	1	13
L 10033	DOM	3	JESUS BAUTISTA	L 10033	Shallow	18S	38E	30	2	3	3
L 10041	DOM	3	C. D. SLAUGHTER	L 10041	Shallow	18S	38E	30	2	4	13
L 10080	DOM	3	LEONARD STANSBERRY	L 10080	Shallow	18S	38E	30	2	1	3
L 10093	PRO	0	WINDMILL OIL COMPANY	L 10093	Shallow	18S	38E	30	4	1	2
				L 10093 2	18S	38E	30	4	1	3	13
L 10093 (E-1)	PRO	ERROR	WINDMILL OIL COMPANY	L 10093 (E-1) EXP	18S	38E	30	4	1	2	13
L 10094	PRO	3	WINDMILL OIL COMPANY	L 10094	Shallow	18S	38E	30	4	1	2

<u>L 10094 (E-1)</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 10094 2</u>	18S	38E	30	4	1	3	13
<u>L 10095</u>	PRO	0	WINDMILL OIL COMPANY	<u>L 10094 (E-1) EXP</u>	18S	38E	30	4	1	2	13
<u>L 10095 (E-1)</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 10095</u>	Shallow	18S	38E	30	4	1	13
<u>L 10096</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10095 2</u>	18S	38E	30	4	1	4	13
<u>L 10096 (E-1)</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 10095 (E-1) EXP</u>	18S	38E	30	4	1	1	13
<u>L 10097</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10096</u>	Shallow	18S	38E	30	4	1	13
<u>L 10097 (E-1)</u>	PRO	ERROR	WINDMILL OIL COMPANY	<u>L 10096 2</u>	18S	38E	30	4	1	4	13
<u>L 10235</u>	DOM	3	ALFONSO GARCIA	<u>L 10096 (E-1) EXP</u>	18S	38E	30	4	1	1	13
<u>L 10394</u>	EXP	3	SETZLER V O	<u>L 10097</u>	Shallow	18S	38E	30	4	1	13
<u>L 10408</u>	DOM	3	WILKS DENNIS	<u>L 10097 2</u>	18S	38E	30	4	1	4	13
<u>L 10639</u>	DOM	3	PFEIFFER JAN	<u>L 10097 (E-1) EXP</u>	18S	38E	30	4	1	1	13
<u>L 10757</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10235</u>	Shallow	18S	38E	30	2	4	13
<u>L 10758</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10394</u>	18S	38E	30	2	1		13
<u>L 10759</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10408</u>	Shallow	18S	38E	30	2	2	13
<u>L 10760</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10639</u>	18S	38E	30	4			13
<u>L 10761</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 06200</u>	18S	38E	30	2	3	3	13
<u>L 10762</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10757</u>	18S	38E	30	2	3	3	13
<u>L 10763</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 05596 X</u>	18S	38E	30	2	3	4	13
<u>L 10764</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10758</u>	18S	38E	30	2	3	4	13
<u>L 10765</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 05657</u>	18S	38E	30	4	1	2	13
<u>L 10766</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10759</u>	18S	38E	30	4	1	2	13
<u>L 10767</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10760</u>	18S	38E	30	2	3	4	13
<u>L 10768</u>	PRO	0	WINDMILL OIL COMPANY	<u>L 05925</u>	18S	38E	30	2	3	4	13
<u>L 10769</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10761</u>	18S	38E	30	2	3	4	13
<u>L 10770</u>	PRO	0	WINDMILL OIL COMPANY	<u>L 06027</u>	18S	38E	30	2	3	3	13
<u>L 10771</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 10762</u>	18S	38E	30	2	3	3	13
				<u>L 05870</u>	18S	38E	30	2	3	3	13
				<u>L 10763</u>	18S	38E	30	2	3	3	13
				<u>L 05596</u>	18S	38E	30	2	3	3	13
				<u>L 10764</u>	18S	38E	30	2	3	3	13
				<u>L 06001</u>	18S	38E	30	2	3	4	13
				<u>L 10765</u>	18S	38E	30	2	3	4	13
				<u>L 06000</u>	18S	38E	30	2	3	4	13
				<u>L 10766</u>	18S	38E	30	2	3	4	13
				<u>L 05624</u>	18S	38E	30	2	3	4	13
				<u>L 10767</u>	18S	38E	30	2	3	4	13
				<u>L 06012</u>	18S	38E	30	4	1	1	13
				<u>L 10768</u>	18S	38E	30	4	1	1	13
				<u>L 06006</u>	18S	38E	30	4	1	2	13
				<u>L 10769</u>	18S	38E	30	4	1	1	13
				<u>L 06007</u>	18S	38E	30	4	1	2	13
				<u>L 10770</u>	18S	38E	30	4	1	2	13
				<u>L 06013</u>	18S	38E	30	4	1	1	13
				<u>L 10771</u>	18S	38E	30	4	1	1	13

<u>L 10772</u>	PRO	0	WINDMILL OIL COMPANY	<u>L 06014</u>	18S 38E 30	4 1 2	13
<u>L 10773</u>	PRO	0	WINDMILL OIL COMPANY	<u>L 10772</u>	18S 38E 30	4 1 2	13
<u>L 10774</u>	PRO	3	WINDMILL OIL COMPANY	<u>L 05629</u>	18S 38E 30	4 1 2	13
<u>L 10826</u>	PRO	0	WINDMILL OIL COMPANY	<u>L 05630</u>	18S 38E 30	4 1 2	13
<u>L 10827</u>	PRO	0	WINDMILL OIL COMPANY	<u>L 10774</u>	18S 38E 30	4 1 2	13
<u>L 10849</u>	DOM	0	CARL SMELCER	<u>L 06514 X</u>	18S 38E 30	2 3 4	13
<u>L 10886</u>	DOM	3	J. W. SAYRE	<u>L 06514 X-2</u>	18S 38E 30	4 3 2	13
<u>L 10947</u>	PRO	0	C/O OIL REPORTS & GAS SER WIND	<u>L 10849</u>	18S 38E 30	4 4	13
<u>L 11126</u>	DOM	3	EMMA OWINGS	<u>L 10886</u>	18S 38E 30	2 1	13
<u>L 11191</u>	DOM	3	KENNETH OR FRANCINE PERRY	<u>L 10947</u>	18S 38E 30	1 3 4	13
<u>L 11214</u>	DOM	3	EDNA C. KING	<u>L 11126</u>	Shallow	18S 38E 30	2 1 2
<u>L 11277</u>	DOM	3	FRANKIE BIRDSELL	<u>L 11191</u>	Shallow	18S 38E 30	3 3 3
<u>L 11312</u>	DOM	0	JIM DIXSON	<u>L 11214</u>	Shallow	18S 38E 30	2 3 2
<u>L 11317</u>	DOM	3	MAVIS JUNE WILLIAMS	<u>L 11277</u>	Shallow	18S 38E 30	2 1 1
<u>L 11345</u>	SAN	3	JOYE DOBBS	<u>L 11312</u>	Shallow	18S 38E 30	2 2 2
<u>L 11393</u>	DOM	3	CYNTHIA DOBBS	<u>L 11317</u>	Shallow	18S 38E 30	2 2 2
<u>L 11468</u>	DOM	0	AMADOR RODRIQUEZ	<u>L 11345</u>	Shallow	18S 38E 30	1 1 1
<u>L 11527</u>	DOM	3	HUGH JAMES DAVIS	<u>L 11393</u>	Shallow	18S 38E 30	2 1 1
<u>L 11570</u>	DOM	3	JODY POWERS	<u>L 11468</u>	Shallow	18S 38E 30	2 1 1
<u>L 11577</u>	DOM	3	VIRGIL WITTMAN	<u>L 11527</u>	Shallow	18S 38E 30	2 4 2
<u>L 11599</u>	DOM	3	VIRGIL WITTMAN	<u>L 11570</u>	Shallow	18S 38E 30	2 3 2
				<u>L 11577</u>	Shallow	18S 38E 30	2 1 1
				<u>L 11599</u>	Shallow	18S 38E 30	2 1 1

Record Count: 480

SE SE 30 18S 38E
Water Well Detail NM OSE Database (December 21, 2006)

④

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
L 10639	18S	38E	30	4					

Driller Licence:		Source:
Driller Name:		Drill Finish Date:
Drill Start Date:		PCW Received Date:
Log File Date:		Pipe Discharge Size:
Pump Type:		Estimated Yield:
Casing Size:		Depth Water:
Depth Well:		

⑤

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
L 10849	18S	38E	30	4	4				

Driller Licence:	603 GRIFFIN WATER WELL SERVICE	Source:
Driller Name:	GRIFFIN	Drill Finish Date:
Drill Start Date:		PCW Received Date:
Log File Date:		Pipe Discharge Size:
Pump Type:		Estimated Yield:
Casing Size:	5	Depth Water:
Depth Well:	160	

⑥

L 07932

Observation Well - No data recorded in iWaters @

**New Mexico Office of the State Engineer
POD Reports and Downloads**

Township: 18S Range: 38E Sections: 29

SW, SW

NAD27 X: Y: Zone: Search Radius:

County: LE

Basin:

Number:

Suffix:

Owner Name: (First)

(Last)

☐ Non-Domestic ☐ Domestic ☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

POD / SURFACE DATA REPORT 12/21/2006

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)

X Y are in Feet

UTM are i

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM Zone
L 01937	IRR	0	GRIMES LAND COMPANY	L 11176	Shallow	18S	38E	29	4	1	4				13
L 04547	DOM	3	B. A. MALECHECK	L 04547	Shallow	18S	38E	29	1	3	1				13
				L 04547 APPRO	Shallow	18S	38E	29	1	3	1				13
L 05577	DOM	0	DAVE E. WOOD	L 05577 EXP		18S	38E	29	2	2					13
L 06203	DOM	0	DOW COTTRELL	L 06203 EXP		18S	38E	29	2						13
L 06453 (E)	PRO	0	CONTINENTAL OIL COMPANY	L 06453 (E) EXP		18S	38E	29	3	4	1				13
L 06453 (E) 2	PRO	0	CONTINENTAL OIL COMPANY	L 06453 (E) 2 EXP		18S	38E	29	3	4	1				13
L 06570 (E)	PRO	0	MORAN OIL PROD & DRILLING CORP	L 06570 (E)	Shallow	18S	38E	29	3	3	3				13
L 06603	DOM	0	RICHARD JOHNSON	L 06603 EXP		18S	38E	29	2	1	2				13
L 06717	DOM	3	E. C. FOWLER	L 06717	Shallow	18S	38E	29	2	4					13
L 07005	SAN	3	TWO-STATE TANK RENTAL CO.	L 07005	Shallow	18S	38E	29	3	3	1				13
L 07017	DOM	3	APEX FREIGHT LINES	L 07017	Shallow	18S	38E	29	3	3					13
L 07163	DOM	3	JOE LISENBEE	L 07163	Shallow	18S	38E	29	1	2					13
L 07427	DOM	3	DON COTTRELL	L 07427	Shallow	18S	38E	29	2	4					13
L 07432	DOM	3	NORMAN L. WILLIAMS	L 07432	Shallow	18S	38E	29	2	4					13
L 07434	DOM	3	N.E. WILLIAMS	L 07434	Shallow	18S	38E	29	2	4	4				13
L 07528	OBS	0	PHILLIPS PETROLEUM COMPANY	L 07528 EXP 2		18S	38E	29	4	1	4				13

L 07530	OBS	0	PHILLIPS PETROLEUM COMPANY	L 07828 EXP	18S	38E	29	4	1	4	13
L 07531	OBS	0	PHILLIPS PETROLEUM COMPANY	L 07530 EXP	18S	38E	29	1	2	4	13
L 07570	DOM	3	SOUTHWESTERN DRILLING MUD	L 07530 EXP 2	18S	38E	29	1	2	4	13
L 07673	DOM	3	LARRY FELKINS	L 07531 EXP	18S	38E	29	1	3	1	13
L 07754	OBS	3	CROWN CHEMICAL COMPANY	L 07531 EXP 2	18S	38E	29	1	3	1	13
L 07825	DOM	3	DONNY CAMPBELL	L 07570	Shallow	18S	38E	29	3	3	13
L 07826	DOM	3	JERRY BERRY	L 07673	Shallow	18S	38E	29	2	2	13
L 08131	DOM	3	A. T. JOHNSON	L 07754	Shallow	18S	38E	29	2	4	13
L 08135	DOM	3	J. D. WHESENHUNT	L 07825	Shallow	18S	38E	29	2	2	13
L 08191	SAN	3	TOMMY MCDANIEL	L 07826	Shallow	18S	38E	29	2	2	13
L 08228	SAN	3	DOW COTTRELL	L 08131	Shallow	18S	38E	29	3	1	13
L 08229	DOM	3	MAX WHITE	L 08135	Shallow	18S	38E	29	2	4	13
L 08370	SAN	3	NORMAN L. WILLIAMS	L 08191	Shallow	18S	38E	29	2	2	13
L 08429	DOM	3	DOW COTTRELL	L 08228	Shallow	18S	38E	29	2	1	13
L 08446	DOM	3	JERRY L. BROTHERS	L 08229	Shallow	18S	38E	29	2	4	13
L 08448	SAN	3	JACK STRINGER	L 08370	Shallow	18S	38E	29	2	2	13
L 08737	DOM	3	DANIEL SAGE	L 08429	Shallow	18S	38E	29	4	1	13
L 08860	SAN	3	TOMMY MCDANIEL	L 08446	Shallow	18S	38E	29	2		13
L 08867	SAN	3	BIG HORN TANK RENTAL	L 08448	Shallow	18S	38E	29	2	4	13
L 09586	DOM	3	KELDON COTTRELL	L 08737	Shallow	18S	38E	29	2	4	13
L 09682	SAN	3	JERRY BROTHERS	L 08860	Shallow	18S	38E	29	2		13
L 09705	SAN	3	TJ & C	L 08860 EXP	18S	38E	29	2			13
L 09777	SAN	3	PAUL MUSSLEWHITE TRUCKING CO.	L 08867	Shallow	18S	38E	29	2	2	13
L 10860	DOM	3	KELLY WILLIAMS	L 09586	Shallow	18S	38E	29	2	4	13
L 10913	DOM	0	RAYMOND STONE	L 09682	Shallow	18S	38E	29	2	2	13
L 11171	SAN	3	CONOCO	L 09705	Shallow	18S	38E	29	3	3	13
L 11176	0	0	TEXLAND PETROLEUM-HOBBS, LLC	L 09777	Shallow	18S	38E	29	1		13
L 11365	PRO	3	GARY SCHUBERT	L 10860	Shallow	18S	38E	29	1	1	13
L 11886	SAN	3	BILL HICKS	L 10913	18S	38E	29	1	3	3	13
				L 11171	Shallow	18S	38E	29	3	4	13
				L 11176	Shallow	18S	38E	29	4	1	13
				L 11365	Shallow	18S	38E	29	1	4	13
				L 11886 POD1	Shallow	18S	38E	29	3	3	13

SW SW 29 18S 38E
Water Well Detail NM OSE Database (December 21, 2006)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

①

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	
L 06570 (E)	18S	38E	29	3	3	3				

PRODUCTION

Driller Licence: 46 ABBOTT BROTHERS COMPANY	Source: Shallow
Driller Name:	
Drill Start Date: 08/05/1969	Drill Finish Date: 08/05/1969
Log File Date: 08/08/1969	PCW Received Date:
Pump Type:	Pipe Discharge Size:
Casing Size:	Estimated Yield:
Depth Well: 110	Depth Water: 54

②

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	
L 07005	18S	38E	29	3	3	1				

SANITARY

Driller Licence: 99 O.R. MUSSELWHITE WATER WELL SE	Source: Shallow
Driller Name:	
Drill Start Date: 10/14/1972	Drill Finish Date: 10/18/1972
Log File Date: 10/24/1972	PCW Received Date:
Pump Type:	Pipe Discharge Size:
Casing Size:	Estimated Yield:
Depth Well: 150	Depth Water: 50

③

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	
L 07017	18S	38E	29	3	3					

DOMESTIC

Driller Licence: 447 GLASSPOOLE, FRANK A.	Source: Shallow
Driller Name:	
Drill Start Date: 12/09/1972	Drill Finish Date: 12/11/1972
Log File Date: 12/15/1972	PCW Received Date:
Pump Type:	Pipe Discharge Size:
Casing Size:	Estimated Yield:
Depth Well: 150	Depth Water: 60

④ *POD No L 07570* *DOMESTIC*

Driller Licence: 46 ABBOTT BROTHERS COMPANY	Source: Shallow
Driller Name:	
Drill Start Date: 06/21/1976	Drill Finish Date: 06/22/1976
Log File Date: 07/21/1976	PCW Received Date:
Pump Type:	Pipe Discharge Size:
Casing Size:	Estimated Yield:
Depth Well: 122	Depth Water: 48

SW SW 29 18S 38E
Water Well Detail NM OSE Database (December 21, 2006)

5

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
L 11886 POD1	18S	38E	29	3	3	4			

Driller Licence: 1044 EADES, ALAN G.

Driller Name: EADES, ALAN

Source: Shallow

Drill Start Date: 03/24/2006

Drill Finish Date: 03/24/2006

Log File Date: 04/03/2006

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size: 5.75

Estimated Yield:

Depth Well: 172

Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	123	171	Sandstone/Gravel/Conglomerate
Casing Perforations:	Top	Bottom	
	132	172	

**Discharge Monitoring Plan
Smith Services, 1000 West County Road, Hobbs, NM**

**Attachment 4
Lea County, NM Soil Survey**

SOIL SURVEY OF LEA COUNTY, NEW MEXICO





































Soil Survey (27 December 2006)



SOIL SURVEY OF LEA COUNTY, NEW MEXICO

Soil Survey (27 December 2006)

MAP LEGEND

- Soil Map Units
- Cities
-  Detailed Counties
-  Detailed States
-  Interstate Highways
-  Roads
-  Rails
-  Water
-  Hydrography
-  Oceans
-  Escarpment, bedrock
-  Escarpment, non-bedrock
-  Gully
-  Levee
-  Slope
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Depression, closed
-  Eroded Spot
-  Gravel Pit
-  Gravelly Spot
-  Gully
-  Lava Flow
-  Landfill
-  Marsh or Swamp
-  Miscellaneous Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Slide or Slip
-  Sinkhole
-  Sodic Spot
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Perennial Water
-  Wet Spot

MAP INFORMATION

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 13

Soil Survey Area: Lea County, New Mexico

Spatial Version of Data: 2

Soil Map Compilation Scale: 1:20000

Map comprised of aerial images photographed on these dates:
11/1/1997

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend Summary

Lea County, New Mexico

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KN	Kimbrough loam, 0 to 3 percent slopes	52.4	27.4
KU	Kimbrough-Lea complex	78.5	41.0
PG	Portales and gomez fine sandy loams	60.5	31.6

Map Unit Description

Lea County, New Mexico

PG Portales and gomez fine sandy loams

Setting

Landscape: Tablelands
Elevation: 3600 to 4400 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 58 to 60 degrees F
Frost-free period: 190 to 205 days

Composition

Portales and similar soils: 45 percent
Gomez and similar soils: 45 percent
Minor components: 1 percent

Description of Portales

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 50 percent
Gypsum maximum: 1 percent
Sodium adsorption ratio maximum: 2.0
Available water capacity: High (about 11.0 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 4e
Ecological site: Loamy Sand (R077XD072NM)

Typical Profile

0 to 8 inches: fine sandy loam
8 to 60 inches: clay loam

Description of Gomez

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous alluvium and/or calcareous lacustrine deposits derived from sedimentary rock

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 50 percent
Gypsum maximum: 1 percent
Sodium adsorption ratio maximum: 2.0
Available water capacity: Moderate (about 6.2 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 4c
Ecological site: Sandy (R077XD075NM)

Typical Profile

Map Unit Description

Lea County, New Mexico

0 to 6 inches: fine sandy loam
6 to 22 inches: fine sandy loam
22 to 60 inches: fine sandy loam

Minor Components

Playas

Percent of map unit: 1 percent

Landform: Playa floors


Landform position (two-dimensional): Toeslope

Down-slope shape: Concave

Across-slope shape: Concave

**Discharge Monitoring Plan
Smith Services, 1000 West County Road, Hobbs, NM**

**Attachment 4
New Mexico Office of the State Engineer (NMOSE)
Lea County Regional Water Plan – Background Information**



HOME STATE ENGINEER INTERSTATE STREAM COMMISSION FREQUENTLY ASKED QUESTIONS PUBLICATIONS NEWS

Regional Planning > Regional Water Plans > Region 16 - Lea County Regional Water Plan

REGIONAL WATER PLANS

Region 16 - Lea County Regional Water Plan

The water planning region encompasses Lea County. There is no river in the region. The principal aquifers are the Ogallala formation and the Capitan aquifer. The region is bounded on the north by Roosevelt County, on the west by Chaves County, on the east and south by Texas.

- **Final Report - Lea County Regional Water Plan**
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Note: Figures unavailable @ TDSW

4. BACKGROUND INFORMATION

4.1 DESCRIPTION OF THE REGION

Water users in Lea County have much in common with each other, such as shared politics, common physical geographic features, the regional climate, area demographic characteristics, and local economic issues. In fact, most of the things that influence the lives of Lea County water users are to a large extent unique to Lea County and are not shared by other adjacent New Mexico Counties. Actually when it comes to water, Lea County is more related to the adjacent counties in Texas than to any entity in New Mexico. Because of this, when the Lea County Water Users Association, as encouraged by the ISC¹, accepted the task of preparing a Regional Water Plan, all the area within Lea County was included and areas outside of the County were not.

4.1.1 Location and Boundaries

Lea County, located in the southeast corner of New Mexico, is approximately 4,400 square miles in size. Lea County is bounded to the north by Roosevelt County, New Mexico, to the east and south by the Texas Counties of Cochran, Yoakum, Gaines, Andrews, Winkler, and Loving, and to the west by Chaves and Eddy Counties, New Mexico. The Lea County Water Users Association represents water users in all areas of Lea County, including the cities and towns of Hobbs, Lovington, Eunice, Jal, and Tatum (**FIGURE 1**).

4.1.2 Geography and Landscape

Lea County is divided approximately in half by an escarpment oriented northwest to southeast. This prominent topographic feature is known as Mescalero Ridge (**FIGURE 2B**). The Mescalero Ridge traverses the western and central portions of Lea County and is a nearly perpendicular cliff that indicates the southern limits of the High Plains² in New Mexico. The High Plains are capped by a thick layer of caliche, locally known as Caprock, that extends throughout northern Lea County. In the east-central part of Lea County, the cliff relief becomes more subdued and is no longer considered a ridge. In the eastern portion of the County it is barely visible as it is partly buried beneath sand dunes.

Elevations in Lea County vary from approximately 2,900 feet in the southeast to approximately 4,400 feet in the northwest. This relief provides for two surface water drainage basins in the County. The Texas Gulf Basin, located in the northern portion of Lea County, and the Pecos River Basin, located in the southern portion of the County, are separated by Mescalero Ridge and its extended escarpment. The high area north of the Ridge, known as the Llano Estacado, is a depositional, low relief surface that slopes uniformly to the southeast. The Llano Estacado contains loamy and sandy soil deposits with numerous undrained depressions, known as playas or "buffalo wallows." The area south of the Ridge is an irregular erosional surface that generally slopes to the west and south, towards the Pecos River. This southern area includes large areas of stabilized and drifting sand dunes and drainage areas created by solution deep-seated collapse.

Two areas having different soil associations exist in Lea County. They are also divided by the Mescalero Ridge and include the southern High Plains and the southern Desertic Basins, Plains, and Mountains (**FIGURE 3**). The southern High Plains area, located in the upper half of Lea County, consists of five related soil associations,

¹ New Mexico Interstate Stream Commission (1994, pg. 5)

² Also known as the Great Plains Physiographic province (Fenneman, 1931).

Kimbrough, Kimbrough-Lea, Portales-Stegall-Lea, Amarillo-Arvana, and Brownfield-Patricia-Tivoli. These associations are generally comprised of shallow to deep gravelly and loamy soils or deep sandy soils formed from windblown and water-deposited materials in the Quaternary and late Tertiary periods. Soft or hard caliche is generally found below soils in the majority of this area. The southern Desertic Basins, Plains, and Mountains area, located in the lower half of Lea County, consists of three soil associations; Simona-Tonuco, Berino-Cacique, and Pyote-Maljamar-Kermit. These associations are generally comprised of shallow to deep sandy and/or loamy soils. Soils in this area were also formed from windblown and water-deposited materials in the Quaternary and late Tertiary periods, however, some valley-fill sediments are from the Permian, Triassic, and Recent periods. Soft and/or hard caliche may be found beneath soils of the Simona-Tonuco and Berino-Cacique associations. The majority of the surface geology in Lea County may be historically classified as Cenozoic in origin. A limited area having a Mesozoic origin exists in the southwestern portion of the County (**FIGURE 2A**). A geologic time scale and stratigraphic nomenclature chart is provided in **APPENDIX D. TABLE 4-1** summarizes the characteristics of the primary soils in each soil association and **APPENDIX E** presents a textural guide for soil classifications.

Two life-form zones exist within Lea County. Life-forms can be either plant or wildlife. As with the other geography and landscape features, they are separated by the Mescalero Ridge. The Upper Sonoran zone is located in the northern half of County and the Lower Sonoran is located in the southern half. Grasses and interspersed oak shinners are the predominant native plant type for both zones. While ranching and farming have impacted native vegetation in most parts of the County, the only rare and sensitive plant species listed is the dune unicorn plant (*Proboscidea sabulosa*). The dune unicorn plant is rare, especially outside of New Mexico, but it is not endangered. **APPENDIX F** contains more information regarding this plant and a description of the New Mexico Energy, Minerals, and Natural Resources Department program to protect native plant species. Native wildlife in Lea County includes coyote, deer, antelope and other lesser desert mammals as well as reptiles and birds. The Aplomado Falcon is the only species in the County listed under the U.S. Fish and Wildlife Service Endangered Species Act (ESA). The American Peregrine Falcon, another bird of prey found in the County, was removed from the endangered species list in 1999. Lea County contains many other raptors that are federally protected under the Migratory Bird Treaty Act. The listing of the Black-tailed Prairie Dog under ESA is currently being considered by the U.S. Fish and Wildlife Service. **APPENDIX F** contains information on other wildlife of concern in Lea County and a list of migratory birds protected by the Migratory Bird Treaty Act.

4.1.3 Climate

The climate of Lea County is semiarid with warm summers, cool and dry winters, with abundant sunshine all year. In the north, Tatum's average highest temperature of 92.5°F occurs during August and the average lowest temperature of 22.8°F occurs during January. In comparison, Jal, in the south, has an average highest temperature of 96.5°F (°F) in August and an average lowest temperature of 27.9°F in January. Approximately 80% of the yearly rainfall occurs during May through October from brief, heavy thunderstorms. Average yearly precipitation ranges from 12 to 16 inches, from southern Lea County (Jal) to northern Lea County (Hobbs and Tatum), respectively. Average yearly snowfall ranges from 4 to 9 inches, from southern Lea County (Jal) to northern Lea County (Lovington), respectively. The average annual wind velocity in Lea County is 12.2 miles per hour. The highest wind velocities occur in the spring. Tornadoes and dust storms may occur several times per year. Lake surface evaporation averages approximately 45 inches per year and the average annual relative humidity ranges from 45 to 50%.

**TABLE 4-1: SUMMARY OF CHARACTERISTICS OF THE PRIMARY SOILS IN EACH SOIL ASSOCIATION
IN LEA COUNTY**

Soil Series	Description	Total Depth Inches	Permeability Inches/Hour	Salinity Mmhos/Cm	Degree of Limitation For Filter (Sewage Disposal) Field	Shrink-Swell Potential
Amarillo	sandy clay loam, chalky loam	60	0.63 to 2.0	0-1	slight to moderate: moderate permeability	low to moderate
Arvana	sandy clay loam	28	0.63 to 2.0	0-1	severe: indurated caliche at shallow depth	moderate
Berino	sandy clay loam, soft caliche	60	0.63 to 2.0	0-2	slight to moderate: moderate permeability	moderate
Brownfield	fine sand, sandy clay loam	63	0.63 to 20.0	0-1		low to moderate
Cacique	loamy fine sand, sandy clay loam	28	0.63 to 6.3	0-1	severe: indurated caliche at shallow depth	low to moderate
Kermit	fine sand	60	>20.0	0-1	slight to moderate: in places slopes exceed 5%; pollution of ground water possible	low
Kimbrough	gravelly loam	6	0.63 to 2	0-2	severe: indurated caliche at shallow depth	low
Lea	loam	26	0.63 to 2.0	0-2	severe: indurated caliche at shallow depth	moderate
Maljamar	fine sand, sandy clay loam	50	0.63 to 20.0	0-1	slight to moderate: moderate permeability	low to moderate
Patricia	fine sand, sandy clay loam	70	0.63 to 20.0	0-1	slight to moderate: moderate permeability	low to moderate
Portales	loam and clay loam	60	0.63 to 2.0	0-2	slight to moderate: moderate permeability	moderate
Pyote	fine sand, loamy fine sand, fine sandy loam	60	2.0 to 20.0	0-1	severe: moderately rapid permeability	low
Simona	fine sandy loam	16	2.0 to 6.3	0-1	severe: shallow over indurated caliche	low
Stegall	clay loam	28	0.06 to 0.2	0-4	severe: indurated caliche at shallow depth; slow permeability	high
Tivoli	fine sand	60	6.3 to 20.0	0-1	slight to moderate: possible contamination of underground water; 0 to 12 percent slopes	low
Tonuco	loamy fine sand	60	0.63 to 2.0	0-1	severe: indurated caliche at a shallow depth	low

Source: USDA, Soil Conservation Service, 1974
Mmhos/cm millimhos per centimeter

4.1.4 Natural Resources

The availability of accessible ground-water for irrigation enabled agriculture to become established and flourish in the County over the last 50 to 65 years. As a result, agriculture has played a major role in Lea County's economy. Sales of beef cattle and milk are currently the primary agricultural incomes. Current major cash crops include cotton, hay (including alfalfa), peanuts, and chile.

Large active oil and gas fields have existed in Lea County for more than 50 years. The New Mexico portion of the Permian Basin contains 1,112 designated, discovered oil reservoirs and 672 designated, discovered gas reservoirs. Production zones are found in rocks as old as Ordovician age, through Permian age³. Mined potash and gypsum deposits are located in the southern portions of the County. Both have played major economic roles since their discovery. Other natural resources include sand and gravel, cultural resources, and other minerals.

4.1.5 Major Surface Water and Ground-water Sources

4.1.5.1 Surface Water

Surface water within Lea County is limited to intermittent streams, lakes, and small playa lakes that result from heavy rainfall during summer months. These intermittent surface water sources are used primarily for livestock purposes. In such cases, small, manmade earthen structures have been constructed to collect surface runoff.

4.1.5.2 Ground-water

Ground-water sources in Lea County include hydrogeologic strata within five underground-water basins declared by the NMOSE. The basins, from north to south, are the Lea County Underground-water Basin (UWB), the Capitan UWB, the Carlsbad UWB, and the Jal UWB (**FIGURE 4**). A small area (approximately 55 square miles) of a fifth, the Roswell UWB, exists within west-central and northwest Lea County. It is important to note that the NMOSE has designated these basins based on their distinct hydrogeologic configurations, which do not typically end at county or state boundaries. In fact, several of the basins found within Lea County extend across county lines in New Mexico and the State Line into Texas.

New Mexico statutes provide that all underground-waters of the State belong to the public, and are subject to appropriation for beneficial use. The New Mexico Office of the State Engineer (NMOSE) is charged with inventorying and accounting for the many waters of the State, including ground-water. To aid this task, the NMOSE may declare certain areas of underground-water in the State as Underground-water Basins (UWB). The NMOSE has jurisdiction over the wells drilled in UWBs. No such jurisdiction exists in undeclared subsurface water basins. In order to declare UWBs the NMOSE has evaluated the surface topography, sub-surface inclination of rock and sediment beds, and water-bearing properties of geologic units in many areas of the State. Lea County spans parts of five separate NMOSE-declared UWBs and one undeclared basin (**FIGURE 4**).

Lea County UWB

The Lea County UWB is approximately 2,180 square miles in size. The Lea County UWB extends east to west across the width of Lea County and generally terminates to the south along the Mescalero Ridge and its associated escarpment. The primary aquifer of the Lea County UWB, as well as the primary ground-water source in Lea County, is the Ogallala Formation. Sediments found within this formation include sands, silts, clay, and gravel. The maximum saturated thickness of the Ogallala aquifer in the Lea County UWB is approximately 250 feet. Cretaceous and Triassic rocks underlying the Ogallala Formation limit downward percolation from the Ogallala aquifer. Ground-

³ Broadhead and Speer, 1993

water flow in the Ogallala aquifer is generally to the southeast. The primary uses of ground-water from the Lea County UWB are irrigation and public water supply. The cities and towns of Hobbs, Lovington, and Tatum are located within the Lea County UWB and have municipal well fields that withdraw potable water from the Ogallala aquifer.

Capitan UWB

The Capitan UWB covers approximately 1,100 square miles and occupies the south-central portion of Lea County. The Capitan UWB is located within a geologic province known as the Delaware Basin, a subdivision of the Permian Basin. The Capitan UWB is aerially oriented in a northwest-southeast alignment above an arc shaped section of a formation known as the Capitan Reef Complex. The Capitan aquifer occurs within dolomite and limestone strata deposited as an ancient reef. The ground-water quality of the Capitan in Lea County is very poor. Other aquifers in the Capitan UWB are found in the overlying Rustler Formation⁴, Santa Rosa Sandstone⁵, and Cenozoic Alluvium. The primary uses of ground-water from the Capitan UWB are mining, oil recovery, industry, livestock, and domestic use. The towns of Eunice and Jal are located within the Capitan UWB, but currently tap beds of saturated Quaternary alluvium located within the Lea County UWB and Jal UWB respectively.

Jal UWB

The Jal UWB is approximately 15 square miles in size and is located at the southwest corner of the Capitan UWB. Cenozoic Alluvium, approximately 550 to 750 feet thick, is the principal water-bearing zone in the Jal UWB. No cities or towns are located within the Jal UWB, although the Town of Jal and El Paso Natural Gas have drilled wells within the UWB.

Carlsbad UWB

The Carlsbad UWB, located in the southwestern portion of Lea County, is approximately 477 square miles in size. The principal aquifer in the Carlsbad UWB is in the Santa Rosa Sandstone, which is approximately 200 feet thick in this area. General ground-water flow in the Carlsbad UWB is in a southerly direction. The primary use of water from the Carlsbad UWB is mining. The area within the Carlsbad UWB is sparsely inhabited.

Approximately 550 square miles of northernmost Lea County lie within a larger undeclared subsurface water basin. The Ogallala Formation occurs in some of this area, however, little information is known due to the scarcity of population and permitted water wells. Previous oil exploration activity in this area may have created conduits for upward migration of ground-water from the Cretaceous Tucumcari Formation to the thin overlying Ogallala beds at the expense of artesian pressure within the Tucumcari unit.

4.1.6 Demographic

The largest portion of the Lea County population is located in the County's eastern half, at or near the cities and towns of Hobbs, Lovington, Eunice, Jal, and Tatum. Lea County's historical population characteristics, from 1940 until 1990, are shown in **TABLE 4-2**. The population of Lea County increased substantially from 1940 until 1960, decreased slightly from 1960 to 1970, increased during 1970 to 1980, and then declined again from 1980 to 1990.

⁴ The Rustler Formation underlies most of the Delaware Basin. Ground-water from the Rustler formation within Lea County is of poor quality and is used only for irrigation, livestock, or oil recovery enhancement.

⁵ The Santa Rosa Sandstone, a specific unit of the Lower Dockum Group, is the principal potable water aquifer in the southwestern third of Lea County. The Santa Rosa was formerly tapped by the Town of Jal's municipal wells until they were abandoned due to low yield.

TABLE 4-2: LEA COUNTY HISTORICAL POPULATION

Year	1940	1950	1960	1970	1980	1990
Population	21,154	30,717	53,429	49,554	55,993	55,765
Change	---	+45%	+74%	-7%	+13%	-1%

Source: U.S. Census

Dramatic changes in population may be attributed to needs and requirements of the oil and gas industry. Demographics by city and town (not shown) indicate sustained population growth in the City of Hobbs from 1940 to 1990. The population in the cities and towns of Eunice, Jal, Lovington, and Tatum increased from 1940 till 1970, but decreased from 1970 to 1990. In 1995 the

estimated population of Lea County was 56,793 and the estimated population of Hobbs in 1994 was 29,712. Growth in Lea County is expected to be less than 1% every 5 years throughout the 40-year horizon of this Plan.

4.1.7 Economic Picture

The economy of Lea County is generally stable⁶ with the median family income in Lea County rising from \$26,620 to \$33,200 from 1989 to 1996. Decreases in the price of oil, such as occurred during the late 1990's, have caused and may in the future cause economic setbacks. These setbacks tend to be cyclic, following the price of oil. Currently, oil prices are again on the rise in response to production limits in the Middle East and in South America. The unemployment rate in 1996 was 4.7%. In 1990 the major areas of employment were mining, retail trade, and services; each of these employed in more than 17% of the County's workforce. Agricultural employment accounted for only 3% of the workforce. Between 1990 and 1996 nonagricultural jobs increased in the areas of retail trade, services, and government. During that same period of time, the number of persons employed in mining declined approximately 13%. Most other job markets remained stable. Total gross receipts for 1996 were \$1.39 billion, an increase of 5.2% from 1995. Primary gross receipt sectors for 1996 were retail trade (26% of total), services (20% of total), and mining (18% of total). Agriculture gross receipts of \$5 million in 1996 were 0.4% of the County's total gross receipts. Of the \$5 million generated by agriculture in 1996, 71% was from livestock and 29 % was from crops. Promotion of industrial and large-scale commercial property is currently prevalent in Lea County, primarily in the cities and towns of Hobbs, Lovington and Jal. Future development of this nature could greatly improve the County's economic outlook.

4.1.8 Land Ownership and Land Use

Lea County is approximately 2.8 million acres in size. Property ownership is 17% federal government, 31% state government, and 52% private (**FIGURE 5**). The federally owned land is primarily located in the southwestern portion of the County, the state-owned land is predominately located throughout the middle, and the privately owned land primarily extends from north to south in the County's eastern portion. Large tracts of land in Lea County are privately owned by farmers, ranchers, oil, gas, and mining companies. Urbanized areas near cities and towns include ownership of smaller tracts of land for residential, municipal, and commercial purposes (**FIGURE 6**). Expected continued growth within the City of Hobbs will require an increase in the number of residential properties and likely a limited increase of commercial properties as well. Approximately 93% of Lea County is used as range land for grazing and approximately 4% is used for crop farming. Urban areas and the roadway system account for the County's remaining land use. Most of the land actively farmed in Lea County is irrigated.

⁶ Lea County Fact Book, Economic Development Corporation of Lea County, January 2000

4.2 HISTORICAL OVERVIEW OF WATER USE IN REGION

Until 1890, Lea County was sparsely populated and occupied only by nomadic bands of Comanche and Apache Indians. Limited ranching extended into the area with the spread of Texas cattlemen into the Pecos Valley. Homesteading of the area occurred during the early 1900's. As a result, Lea County was formed in 1917 from parts of Eddy and Chaves Counties.

During the developing stages of Lea County, water use was limited to withdrawals from shallow hand dug or drilled wells. Periods of drought during the 1910's, 1930's, and 1950's reduced the scale of dryland farming and the number of farms in Lea County. With the advent of advanced well drilling and pumping technology, ground-water irrigation began in the late 1930's in the northeastern portion of the County. Development was fairly limited from 1937 to 1939, averaging about 1,900 acre-feet per annum (ac-ft/an), but increased significantly from 1940, when 3,200 ac-ft/an were pumped, to 1950, when 95,000 ac-ft/an were pumped. Pumping for irrigation varied from 1951 to 1960 and ranged from 105,000 ac-ft/an in 1960 to 170,000 ac-ft/an in 1955 (Ash, 1963). The combination of pumps, increased population, and increased livestock herds (and their feed requirements) caused a dramatic increases in water use throughout the 1940's till the 1980's, with the bulk of that use going for irrigation. The irrigated acreage in the County increased from 1,970 acres to 119,240 acres during 1940 to 1982. Fluctuations in the ground-water level, periods of above-average rainfall, and drops in agricultural market prices resulted in a decrease of total irrigated acreage in the 1980's. As of 1997, Lea County had 104,600 acres of cropland, of which 83,500 acres were irrigated and 21,000 acres were dryland. This is illustrated in **TABLE 4-3** which presents a time line summarizing the history of development and water use in Lea County. While the largest type of water use in Lea County, past and present, is agricultural irrigation⁷, many other types of activities are dependent on the area's water resources.

Historically, two of the most dynamic are oil and livestock. Oil has been instrumental in building the County's economy. The first oil well in the County was drilled near Maljamar in 1926. Oil exploration and production quickly spread through other parts of Lea County. Subsequent development of oil and gas fields supported increases in population. Water required for oil production⁸ is used to pressurize subsurface deposits so production rates will increase and probably ranges from 3-9% of all water used.

⁷ 65-80% of all water used each year since 1975

⁸ Oil and Gas water use is reported under Amining@ water use category by the NMOSE.

TABLE 4-3: HISTORICAL DEVELOPMENT OF WATER USE IN LEA COUNTY

Time Line	
Early 1920's	Lea County residents first use ground-water. (Clark, 1987).
Late 1920's to recent	Trend from stock raising and dry-farming (pasture grasses and seasonal precipitation-irrigated crops) to economy based on irrigated farming and production of oil and gas.
1926	First Lea County oil well drilled, near Maljamar. Initial oil fields (until 1954) were drilled along the edge of the Delaware Basin on shallow structures (Nicholson and Clebsch, 1961).
By 1929	41 irrigation wells drilled on the Llano Estacado. 17 unused and 24 used occasionally (NMOSE, 1959).
Early 1930's	Drought increases ground-water irrigation around Lovington and Hobbs. Estimated irrigation pumping for 1930 was 500 ac-ft, for 1931 was 850 ac-ft, for 1932 was 950 ac-ft, and for 1933 was 1,225 ac-ft (NMOSE, 1959).
1931	Lea County UWB declared with 1,270-square-miles. It was closed to further appropriations at end of 1948, and not earlier because of its relatively slow development (Clark, 1987).
1940's	Livestock and cattle production increasing since 1929. Wells in northeastern Lea County that tapped Cretaceous beds stopped producing artesian flow following widespread drilling of uncased seismic shot holes, which allowed excess hydraulic head from the Cretaceous unit to dissipate into the overlying Ogallala. Limits of oil fields greatly enlarged (Clark, 1987).
1940 B 1950	Ogallala rises with above-average precip., except near Hobbs, Lovington, Humble City, and McDonald, where pumping increased (1947-1950). Water pumped from Cenozoic deposits rises from 3,200 ac-ft (1940) to 95,000 ac-ft (1950).
During W.W.II	Critical need for rubber led to construction of four carbon black plants in southern Lea County, near Eunice. Oil production develops rapidly in 1944 (Nicholson and Clebsch, 1961).
1946 B 1954	Amount of irrigated acreage rose, by 1954 there were 93,000 total irrigated acres. Subsequent increase in irrigation pumping quantities: 1946 B 3,500 ac-ft, 1947 B 19,000 ac-ft, 1948 B 39,000 ac-ft, 1949 B 60,000 ac-ft, 1950 B 95,000 ac-ft, 1951 B 153,000 ac-ft, 1952 B 166,000 ac-ft, 1953 B 165,000 ac-ft, 1954 B 163,000 ac-ft, 1955 B 170,000 ac-ft.
1948	Acreage with water rights reaches 117,700-acre total and estimated net recharge is 4,000 ac-ft annually (Clark, 1987). December 29, the basin was closed to further appropriation.
1950 B 1960	Below-average precipitation and increased pumpage results in Ogallala decline. Water pumped from Cenozoic deposits rises from 95,000 ac-ft in 1950, to 105,000 ac-ft in 1960. Early 1950=s drought cut down size of herds (Nicholson and Clebsch, 1961). Oil wells drilled at 3 mile intervals in Moore-Devonian Pool. Proportion of saline water production increases with continued development of field (Stephens and Spalding, 1984).
1952	Lea County UWB extended to current 2,180 square miles, and opened to further appropriations in 1952 and 1953. USGS and NMOSE begin work to define thickness of saturated sediments in northern Lea County. J.C. Yates made intensive township-by-township investigation in 1952. Pumping was concentrated in 20 of the 71 townships in the basin. Yates Aestimated the supply in each township and the total which could be withdrawn annually from each to make water available for irrigation for forty years, leaving one-third of the basin's waters. These would be reserved for domestic and municipal purposes thereafter@ (Clark, 1987).
1954	Increases in irrigated land slowed in 1954 as most cropland was between Tatum and Hobbs, and in a NW-trending line, 15 miles W. of Tatum and Lovington. By 1954 there were 1,000 irrigation wells. First oil well drilled in a deeper part of the Delaware Basin (rather than along fringe), near Bell Lake (Nicholson and Clebsch, 1961). 2,400 ac-ft of water from Paleozoic units pumped out in the producing oil. 20,500 acre-feet water pumped since start of oil production. Annual average of 7.35 acre-feet water produced per well.
1955	3,000 operating oil wells; almost 570 million barrels oil and 940 million cubic feet natural gas produced since 1926. Highest year on record from 1937 to 1960 for irrigation pumping - 170,000 acre-feet.
1958	Apparent wet growing season; reported irrigation down to 107,000 acre-feet for year.
1960	Apparent wet growing season; reported irrigation down to 105,000 acre-feet for year.
1961	Jal Underground-water Basin is declared.
1965	NMOSE declares Capitan UWB. Oilfield withdrawals from Capitan Basin and reefs may adversely effect Pecos River and ground-water supply in valley (Carlsbad and Roswell Basins), so basin declared in 1965 (Clark, 1987).
1967 B 1968	New Mexico Oil Conservation Commission enters Order No. R-3221, prohibiting salt-water disposal in unlined surface pits. Use of salt-water disposal wells and lined evaporation pits allowed.
1972	State engineer reports that 16 percent of all diversions in Lea County were made up of withdrawals for municipal and industrial uses, more than three times the average for other underground basins (Clark, 1987).
1978	New Mexico began performing annual bradenhead tests to check mechanical integrity of all salt-water disposal wells (Class II wells) in southeastern New Mexico (Stephens and Spalding, 1984).

Source: Ash 1963 unless indicated otherwise

Livestock, while always present has never exerted a large direct demand on the County's water resources, is now increasing its demand. The Lea County livestock industry has changed since the mid 1900's when dry conditions in the early 1950's reduced the size of many Lea County cattle herds. Today, the beef cow has largely given way to the milk cow. The number of milk cows increased 127% from 1995 to 1998⁹. The total number of current mature and immature dairy cattle has been estimated to be 30,000¹⁰ to 40,000¹¹. This data suggests increases in total herd size of 200% to 300% since 1995. Lea County dairy farmers indicate that up to 100 gallons per day per cow are required for consumption and processing. Plus, in order to meet the increasing demand for feed, continued dairy industry growth in the County is likely to increase irrigated agricultural water use.

TABLE 4-4 presents recent water use for the County by NMOSE water use category in 1975, 1985, 1995¹², and 1998¹³. During the period from 1975 to 1985, large increases in water use occurred in most categories, with exceptions for irrigation, livestock, and power. A 13% increase in population in Lea County during this period of time (see Section 6) may account for much of the increased water use. Above-average rainfall in 1985 may account for the reported decrease in irrigated agriculture and livestock use.

Water use increased in Lea County from 1985 until 1995 by 22%. During this period, increases in water use occurred in all categories, except mining and power. Public water supply use and domestic use increased 26% and 40%, respectively, even though the population of Lea County increased only 1% (see Section 5). The primary water use categories in 1995 were irrigated agriculture (74% of total), public water supply (11% of total), mining (11% of total), and power (3% of total). Water use by the remaining categories was less than 1% of the total water use in Lea County for 1995.

Recent water use in Lea County, from 1995 until 1998 can not be completely addressed as the NMOSE total use data for 1998 has not yet been compiled. The 1998 NMOSE data shown in **TABLE 4** is primarily collected from the Lea County UWB and uses on the other UWBs have not yet been accounted. Still the partial 1998 data compared to the complete 1995 data indicates a 10% increase in public water supply use, a 6% increase in irrigated agricultural use, and a 69% increase in industrial use. Using these figures, the total water use in Lea County increased by approximately 1% from 1995 to 1998, even though the 1998 data is incomplete.

4.3 NMOSE WATER USE RECORDS

The completeness and accuracy of the NMOSE reported water use data, shown in **TABLE 4-4**, depends on water users providing accurate meter records, estimates, and other data to the NMOSE. Discrepancies in data do occur when inaccurate information is provided.

Water use by agriculture is determined by multiplying the amount of irrigated acres by a factor of water use per acre. This factor is called the farm delivery requirement (FDR) (Calculated by the NMOSE). For example, if the FDR is 2.0

⁹ USDA and New Mexico Agricultural Statistics Service (see **APPENDIX T**)

¹⁰ Mr. Bob Carter, Lovington City Manager, reporting on a survey of dairy farmers.

¹¹ NMSU Cooperative Extension Service

¹² Data for 1975, 1985, and 1995 are derived from water use inventories published by the New Mexico Office of the State Engineer (Sorenson, 1977, Wilson, 1986, and Wilson, 1997).

¹³ Data for 1998 are derived primarily from the *Lea County Underground-water Basin Annual Report 1998* (NMOSE, 1998). The 1998 report is an unpublished report prepared at the NMOSE District No. 2 Office in Roswell by the Lea County Underground-water Basin Supervisor and Assistant Basin Supervisor (Johnny Hernandez and Fred McMinn, respectively). It is important to note that the 1998 report data is primarily for the LEA County UWB and does not represent total use in all Lea County basins. The Lea County total use report for 1998 has not been completed at this time.

TABLE 4-4: LEA COUNTY HISTORICAL WATER USE: 1975-1998 (ACRE-FEET)

Water Use Category	1975	1985	1995	1998 ^a	Change 1975- 1985 (%)	Change 1985- 1995 (%)	Change 1995- 1998 ^b (%)
Public Water Supply	9,966	12,818	16,153	17,790 ^c	+29	+26	+10
Domestic	714	949	1,331	n/a ^d	+33	+40	n/a
Irrigated Agricultural	191,290	98,409	131,163	138,601 ^e	-49	+33	+6
Livestock	1,025	727	1,497	1,111 ^f	-29	+106	-26
Commercial	555	1,111	1,346	606	+100	+21	-55
Industrial	no report	0	1,497	2,524 ^g	n/a	n/a	+69
Mining	21,612	25,783	18,975	12,439 ^h	+19	-26	-34
Power	13,876	5,708	4,445	4,485	-59	-22	<1
Reservoir Evaporation	100	0	0	0	-100	0	0
Recreation	0	887	no report	966 ⁱ	n/a	n/a	n/a
Total Use	239,138	146,392	176,407	178,522	-39	+21	+1

Source: Sorenson, 1977, Wilson, 1986, Wilson, 1997, and NMOSE, 1998

- Data for 1998 is incomplete. Figures are based on withdrawals from the Lea County UWB only.
- Actual increases and decreases for this period are yet to be determined due to incomplete NMOSE data.
- The value includes 1,608 ac-ft of commercial, domestic, and industrial use by the City of Carlsbad and 725 ac-ft of municipal non-cities use.
- Domestic use has not been estimated.
- This figure reflects an estimated area of 83,500 acres irrigated at 1.6 ac-ft per acre plus metered irrigation at 5,001 ac-ft.
- This value includes dairies and cattle feed lots, but does not include livestock use in the Jal or Capitan UWBs.
- This figure includes manufacturing and petroleum processing.
- This value includes secondary recovery of oil, mining of ore, and oil well dwellings.
- Recreation was eliminated as a separate category by the NMOSE Technical Report 47 (Wilson, 1992).

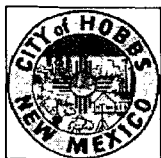
acre-feet per acre and 2,000 acres are irrigated, then the total withdrawal is equal to 4,000 acre-feet. The FDR is not constant because it is calculated from components that vary based on climate, crop type, cropping patterns, and other conditions.

Specifically, the FDR is computed¹⁴ by dividing the consumptive irrigation requirement (CIR) by the on-farm irrigation efficiency (E_f). The consumptive irrigation requirement (CIR) is determined by subtracting the effective rainfall (R_e) from the consumptive use (U). Besides the obvious variance in rainfall, consumptive use (U) is also calculated from variable factors such as temperature, daylight hours, and latitude. Furthermore, on-farm efficiency (E_f) is also based on elements that are affected by farm and field conditions that can vary and change. Therefore, it is important to note that the FDR varies yearly as seasons, climate, crops, farm methods, and cropping patterns change. A copy of the detailed procedure for quantifying irrigation withdrawals and depletions is provided in **APPENDIX R**.

¹⁴ The calculation is set forth in the NMOSE's Technical Report 49 (Wilson, 1997a).

**Discharge Monitoring Plan
Smith Services, 1000 West County Road, Hobbs, NM**

**Attachment 4
City of Hobbs Water Utility – 2006 Water Quality Data**



Hobbs Water Quality Laboratory

2006

Sample Site	Date Collected	Time	pH	Conductivity	T.D.S.	Cl-mg/L	Alk- mg/L	Hard-mg/L	Ca- mg/L	Mg-mg/L	NO3-mg/L	FI-mg/L	SO4-mg/L	PO4-mg/L	CU-mg/L	Iron-mg/L
WELL 1	4/5/2006	14:55	7.1	403	290	50	176	228	76.80	36.74	2.90	0.67	89	1.20	0.02	0.02
WELL 2	4/5/2006	15:00	6.8	403	293	80	186	224	30.40	47.04	2.60	0.86	59	1.20	0.02	0.00
WELL 3	4/5/2006	14:15	7.0	638	460	80	210	280	106.40	42.18	3.20	0.72	67	1.70	0.00	0.00
WELL 4	4/5/2006	14:20	7.4	530	377	65	190	224	72.00	36.94	2.80	0.85	135	2.30	0.00	0.00
WELL 5	4/5/2006	14:45	7.4	413	292	60	162	184	62.40	29.55	2.30	0.85	70	2.00	0.03	0.03
WELL 6	4/5/2006	15:20	7.4	445	306	50	164	210	68.00	34.51	2.80	0.67	105	0.70	0.00	0.01
WELL 7	4/5/2006	15:35	7.5	474	318	55	170	196	60.00	33.05	2.60	0.68	112	1.40	0.00	0.00
WELL 8	4/5/2006	14:35	7.4	575	382	85	186	212	84.00	31.10	2.50	0.54	138	1.40	0.00	0.00
WELL 9	4/5/2006	10:42	7.0	855	556	175	184	324	120.00	49.57	2.70	0.62	64	1.50	0.00	0.00
WELL 10	4/5/2006	10:34	7.1	1204	772	200	216	424	168.80	62.01	6.00	0.51	49	2.30	0.00	0.00
WELL 11	4/5/2006	10:55	6.8	969	671	225	182	388	157.60	55.99	3.80	0.38	53	1.60	0.00	0.01
WELL 12	4/5/2006	10:50	6.8	956	690	195	188	362	153.60	50.64	4.80	0.97	47	0.90	0.00	0.00
WELL 14	4/5/2006	10:13	7.1	1133	823	315	224	360	149.60	51.13	4.40	0.75	55	0.60	0.01	0.02
WELL 15	4/5/2006	11:50	6.9	535	382	140	134	380	67.20	76.01	2.20	1.32	124	1.00	0.01	0.01
WELL 16	4/5/2006	11:35	6.9	794	561	160	156	300	111.20	45.88	4.10	0.96	57	1.10	0.00	0.01
WELL 17	4/5/2006	11:20	6.8	694	490	165	162	274	89.60	44.81	1.20	0.97	63	3.90	0.30	0.00
WELL 18	4/5/2006	11:55	6.9	745	525	225	132	314	92.80	53.75	1.40	1.02	134	1.10	0.00	0.00
WELL 19	4/5/2006	11:40	6.9	427	296	20	150	196	57.60	33.63	2.90	1.2	102	0.60	0.00	0.01
WELL 20	4/5/2006	12:05	6.8	452	305	55	168	228	62.40	40.24	2.50	1.33	102	1.70	0.00	0.01
WELL 21	4/5/2006	12:15	7.0	522	353	50	154	442	64.80	91.66	3.20	1.07	126	0.80	0.00	0.01
WELL 22	4/5/2006	12:35	6.8	564	377	75	156	278	75.20	49.28	3.80	1.16	136	1.30	0.00	0.02
WELL 23	4/5/2006	12:45	7.1	462	314	35	156	242	72.00	41.31	3.40	1.35	111	6.40	0.01	0.01
WELL 24	4/5/2006	12:20	7.0	422	291	70	150	164	51.20	27.41	4.20	1.35	131	1.20	1.06	0.61
WELL 25	4/5/2006	13:30	7.1	933	632	265	198	252	140.80	27.02	2.40	0.51	120	0.60	0.01	0.01
WELL 26	4/5/2006	12:50	6.8	718	493	155	166	264	101.60	39.46	3.50	0.88	164	1.30	0.01	0.00
WELL 27	4/5/2006	13:00	6.9	641	429	95	170	290	94.40	47.53	2.70	0.86	178	1.90	0.01	0.01
WELL 28	4/5/2006	13:45	7.1	427	281	35	166	196	60.00	33.05	2.30	0.96	68	1.40	0.01	0.03
WELL 29	4/5/2006	13:20	6.8	1083	730	295	178	366	176.00	46.17	3.20	0.64	238	0.90	0.01	0.02
TOTAL			196.6	18417	12689	3475	4834	7802	2626.40	1257.67	86.40	24.65	2897	44.00	1.51	0.85
HIGH			7.5	1204	823	315	224	442	176.00	91.66	6.00	1.35	238	6.40	1.06	0.61
LOW			6.8	403	281	20	132	164	30.40	27.02	1.20	0.38	47	0.60	0.00	0.00
AVG.			7.0	657.75	453.1786	124.1071	172.64286	278.64286	93.80	44.92	3.09	0.880357	103.4643	1.57	0.05	0.03
TEST			28.0	28	28	28	28	28	28.00	28.00	28.00	28	28	28.00	28.00	28.00

**ATTACHMENT 5
FACILITY CLOSURE PLAN**

**Smith Services
1000 West County Road, Hobbs, NM 88240
Discharge Plan Application**

ATTACHMENT 5 FACILITY CLOSURE PLAN

Release Notification

The Smith Services, Hobbs Service Center personnel will comply with the release notification and corrective action requirements of NMOCD Rule 116 (19 NMAC 15.3.116) and the notification of discharge-removal requirements of 20 NMAC 6.2.1203.

Closure Plan

Smith's environmental policies and procedures provide that facility operations shall be conducted in a manner to minimize adverse environmental impacts to the land, water or air. In the event that Smith were to sell the property at 1000 West County Road, Hobbs, NM on which the service center is located or in the event of Smith's active operations were to be ceased for any other reason, this closure plan would be implemented.

- (1) A phased environmental site assessment study will be conducted to determine if pollutants of concern are present and if so, to determine the extent of the concern.
- (2) If pollutants of concern are determined to be present in exceedence of the standards in Section 20.6.2.3103 NMAC (or other applicable local, state, or federal regulation) or the presence of a toxic pollutant is detected in groundwater, Smith shall develop and implement a remediation plan in accordance with New Mexico Oil Conservation Division and New Mexico Environment Department requirements.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

March 26, 2002

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL

RETURN RECEIPT NO. 3929 7709

Ms. Bernice A. Petersen
Senior Environmental Coordinator
Smith International, Inc.
P.O. Box 60068
Houston, Texas 77205-0068

**RE: Storm Water Plan - Approval
Discharge Plan GW-076
Smith International (formerly Star Tool) Hobbs Facility**

Dear Ms. Petersen:

The New Mexico Oil Conservation Division (OCD) has received Smith International, Inc.'s storm water pollution prevention plan, dated March 2002, for the Hobbs facility (GW-076) location. The Smith International, Inc.'s storm water pollution plan **is hereby approved.**

Please note that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3107.C, Smith International, Inc. is required to notify the Director of any facility expansion, production increase or process modification that would result in a significant modification in the discharge of potential ground water contaminants.

Note, that OCD approval does not relieve Smith International, Inc. of liability should operation's at the facility GW-076 result in contamination of surface waters, ground waters or the environment. Further, OCD approval does not relieve Smith International, Inc. from responsibility for compliance with any other federal, state, and local rules/regulations that may apply to the Smith International, Inc.

Ms. Bernice A. Petersen
GW-076, Hobbs Facility
March 26, 2002
Page 2

If Smith International, Inc. has any questions with regards to this approval feel free to contact Mr.
W. Jack Ford at (505)-476-3489.

Sincerely,



Roger C. Anderson
Bureau Chief
Environmental Bureau - OCD

RCA/wjf

cc: OCD Hobbs District

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
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B. Petersen	
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Smith	
City, State, ZIP+ 4	
GW-076	
PS Form 3800, January 2001	
See Reverse for Instructions	

7001 1940 0004 3929 7709

SMITH INTERNATIONAL, INC.

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

Tel: 281/443-3370

RECEIVED

MAR 25 2002

Environmental Bureau
Oil Conservation Division

March 22, 2002

Mr. W. Jack Ford
New Mexico Energy, Minerals, and Natural resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

SENT VIA FEDERAL EXPRESS
AIRBILL 8205 0734 6517

Reference: Discharge Plan Renewal Approval GW-076
Smith International Hobbs Service Facility (formerly Starr Tool Company)

Dear Mr. Ford:

Enclosed is a copy of the storm water run-off plan for the subject location requested in your September 24, 2001 Discharge Plan Renewal letter. Please contact me at 800 US SMITH or (281) 233-5715 if you have any questions regarding the plan.

Sincerely,



Bernice A. Petersen
Senior Environmental Coordinator

Enclosure

cc: D. Holmes, Smith Services, Hobbs, NM

cc w/w enclosure: D. Rodgers, Smith Services, Odessa, TX
M. Sticker/File

H. Don Rodgers
Environmental Coordinator
Smith International
PO Box 2008
Hobbs, NM 88240

Jack Ford
Oil Conservation Division
1220 S. St. Francis
Santa Fe, NM 87505

RECEIVED

NOV 12 2001

October 30, 2001
Environmental Bureau
Oil Conservation Division

Dear Jack;

Enclosed is a signed copy of the approval for discharge plan GW-076 for the Hobbs facility. Also enclosed is a check in the amount of \$1700 to cover the plan fee. I filed an additional signed copy with the local field office. I appreciate your attention in this matter and if I can be of any assistance to you or your office feel free to contact me at (915) 550-6609.

Sincerely,

A handwritten signature in black ink, appearing to read 'H. Don Rodgers', written in a cursive style.

H. Don Rodgers

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 10-17-01
or cash received on _____ in the amount of \$ 1700.00
from Smith International
for Hubbs Service Facility GW-076
Submitted by: [Signature] Date: 11-2-01
Submitted to ASD by: _____ Date: _____
Received in ASD by: _____ Date: _____
Filing Fee _____ New Facility _____ Renewal ☒
Modification _____ Other _____
Organization Code 521.07 Applicable FY 2001
To be deposited in the Water Quality Management Fund.
Full Payment ☒ or Annual Increment _____

SMITH INTERNATIONAL, INC.
P.O. BOX 60068, Houston, Texas 77205

WACHOVIA BANK, N.A.
Greenville, South Carolina, in cooperation with Wells Fargo Bank, NA 4759-403231

CHECK DATE	CHECK NUMBER
17-OCT-01	[REDACTED]

67-1 CHECK NO: [REDACTED]
532

\$*****1,700.00

PAY: One Thousand Seven Hundred Dollars And 00
Cents.....

TO THE ORDER OF: WATER MANAGEMENT QUALITY
C/O OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
SANTA FE, NM 87505

[Signature]
AUTHORIZED SIGNATURE SVP-CFO



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenberg

Director

Oil Conservation Division

September 24, 2001

CERTIFIED MAIL

RETURN RECEIPT NO. 5051 0845

Mr. H. Don Rogers
Environmental Coordinator
Smith International Inc.
P.O. Box 2008
Hobbs, New Mexico 88240

**RE: Discharge Plan Renewal Approval GW-076
Smith International Inc.
Smith International Hobbs Service Facility (formerly Star Tool Company)
Lea County, New Mexico**

Dear Mr. Rogers:

The ground water discharge plan renewal GW-087 for the Smith International Inc. Smith International Hobbs Service Facility (formerly Star Tool Company) located in the NE/4 NW/4 of Section 32, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, is **hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 days of receipt of this letter.**

The original discharge plan application was submitted on June 27, 1991 pursuant to Section 5101.B.3. of the New Mexico Water Quality Control Commission (WQCC) Regulations. The discharge plan renewal application was submitted May 28, 2001 pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is approved pursuant to Section 3109.A. Please note Section 3109.G., which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve Smith International Inc. of liability should operations result in pollution of surface water, ground water, or the environment.

Please be advised that all exposed pits, including lined pits and open tanks (tanks exceeding 16 feet in diameter), shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3104 of the regulations provides: "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C., Smith International Inc. is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.H.4., this discharge plan is for a period of five years. This plan will expire on **October 2, 2006**, and Smith International Inc. should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan.

Smith International Inc. will submit a storm water run-off plan for approval by the OCD within six (6) months of the date of this approval letter for the Smith International Hobbs Service Facility.

Mr. H. Don Rogers
GW-076 Smith International Hobbs Service Facility
September 24, 2001
Page 2

The discharge plan application for the Smith International Inc. Smith International Hobbs Service Facility is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan application will be assessed a non-refundable fee equal to the filing fee of \$100. There is a flat fee assessed for oil and gas field service company facilities equal to \$1700.00. The OCD has received the filing fee.

Please make all checks payable to: Water Management Quality Management Fund
C/o: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505.

If you have any questions please contact Mr. W. Jack Ford at (505) 476-3489. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

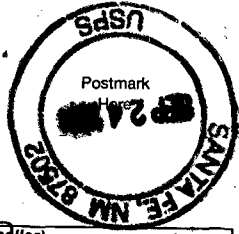
Sincerely,



Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/wjf
Attachment

xc: OCD Hobbs Office

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
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Return Receipt Fee (Endorsement Required)	
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Total Postage & Fees \$	
Name (Please Print Clearly) (To be completed by addressee) <i>D. Rodgers</i>	
Street, Apt. No.; or PO Box No. <i>Smith Int.</i>	
City, State, ZIP+ 4 <i>GW-076</i>	
PS Form 3800, July 1999 See Reverse for Instructions	

7099 3220 0000 5051 0845

ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-076
SMITH INTERNATIONAL INC.
SMITH INTERNATIONAL HOBBS SERVICE FACILITY
DISCHARGE PLAN APPROVAL CONDITIONS
(September 24, 2001)

1. Payment of Discharge Plan Fees: The \$100.00 filing fee has been received by the OCD. There is a flat fee assessed for oil and gas service company facilities equal to \$1700.00. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.
2. Smith International Inc. Commitments: Smith International Inc. will abide by all commitments submitted in the discharge plan renewal application dated May 28, 2001 and these conditions for approval.
3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.

Rule 712 Waste: Disposal of Certain Non-Domestic Waste At Solid Waste Facilities permitted by the New Mexico Environmental Department as long as:

1. the waste stream is identified and authorized as such in the discharge plan, and
 2. existing process knowledge of such waste streams does not change without notification to the Oil Conservation Division.
4. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
 5. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
 6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

7. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
8. Labeling: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.
9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
10. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity every 5 years. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
11. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
12. Housekeeping: All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.
13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Hobbs District Office.
14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
15. Storm Water Plan: The facility will have an approved storm water run-off plan.

16. Closure: The OCD will be notified when operations of the Smith International Hobbs Service Facility are discontinued for a period in excess of six months. Prior to closure of the Smith International Hobbs Service Facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
17. Certification: Smith International Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Smith International Inc. further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

SMITH INTERNATIONAL INC.

by _____
Title



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

July 25, 2001

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 0715

Mr. H. Don Rogers
Smith International
P.O. Box 2008
Hobbs, New Mexico 88240

RE: SUNDANCE SERVICES, INC.
INVOICE NO. 30559

Dear Mr. Rogers:

Enclosed is a copy of invoice number 30559 from Sundance Services, Inc. regarding the receipt of material purported to have been sent from Star Tool's Hobbs yard on July 31, 2000.

Please review the enclosed for validity and notify the Santa Fe Office of the New Mexico Oil Conservation Division of the results. The Oil Conservation Division requests that Smith International supply copies of all documentation of disposal of materials from the Hobbs Yard during the year 2000.

Sincerely,

Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/wjf

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

Article Sent To:

7099 3220 0000 5051 0715

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

Postmark
Here

Name (Please Print Clearly) (To be completed by mailer)

Street, Apt. No.; or PO Box No.

City, State, ZIP+ 4

PS Form 3800, July 1999

See Reverse for Instructions

Sundance Services, Inc.P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

No 30559

LEASE OPERATOR/SHIPPER/COMPANY: STAR ToolLEASE NAME: Hobbs yardTRANSPORTER COMPANY: ZIA

TIME:

AM/PM

DATE: 7-31-00

VEHICLE NO.:

265

DRIVER NO.:

CHARGE TO:

ZIA**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.:☒ Other Material:☐ BS&W Content:

Description:

SolidsringsateJetoutVOLUME OF MATERIAL ☐ BBLs.80☐ YARD☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter

Revised 12/27/93

OIL CONSERVATION DIV.
01 JUL -9 PM 1:42

076
~~Gen-245~~

H. Don Rodgers
Smith International
PO Box 2008
Hobbs, NM 88240

Jack Ford
Oil Conservation Division
1220 S. St. Francis
Santa Fe, NM 87505

Mr. Ford;

Star Tool company has recently been purchased by Smith Internantional. They operated under discharge plan #GW-076. We would like to transfer operation under this plan to Smith International until time for renewal. We understand and will fully comply with the terms of this plan. The articles of the plan stating the operator and landowner should be changed to:

Smith International Inc.
PO Box 60068
Houston, Texas 77205-0068

If you have any further questions or if I can be of any assistance, you can reach me in my office (915)550-6609. Your consideration in this matter is greatly appreciated.

Sincerely,



H. Don Rodgers
Environmental Coordinator
Smith International
Red Baron Group

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:

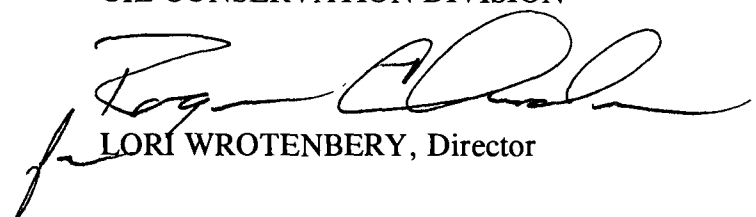
(GW-076) – Star Tool Co., Mr. David T. Taylor, P.O. Box 2008, Hobbs, New Mexico 88241, has submitted a discharge plan renewal application for their Hobbs Oilfield Fishing Tool Service facility located in the NEW/4 NW/4, Section 32, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Waste water is collected in an above ground closed tank 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 44 feet with a total dissolved solids ranging from approximately 300 mg/l to 700 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 14th day of June, 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY, Director

SEAL

THE SANTA FE
NEW MEXICAN
Founded 1849

NEW MEXICO CONSERVATION DIVISION
ATTN: ED MARTIN
2040 S. PACHECO
SANTA FE, NM 87505

AD NUMBER: 213208 ACCOUNT: 56689
LEGAL NO: 69614 P.O.#: 01199000033
176 LINES 1 time(s) at \$ 77.58
AFFIDAVITS: 5.25
TAX: 5.18
TOTAL: 88.01

NOTICE OF PUBLICATION

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ENERGY, MINERALS
AND
NATURAL RESOURCES
DEPARTMENT
OIL CONSERVATION
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(GW-076) - Star Took Co., Mr. David T. Taylor, P.O. Box 2008, Hobbs, New Mexico 88241, has submitted a discharge plan renewal application for their Hobbs Oilfield Fishing Tool Service facility located in the NEW/4 NW/4, Section 32, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Waste water is collected in an above ground closed tank 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 44 feet with a total dissolved solids ranging from approximately 300 mg/l to 700 mg/l. The discharge plan addresses how spill, leaks, and

LEGALS

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.

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 14th day of June, 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY, Director
Legal #69614
Pub. June 25, 2001

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, MMW Weideman being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #69614 a copy of which is hereto attached was published in said newspaper 1 day(s) between 06/25/2001 and 06/25/2001 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 25 day of June, 2001 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/

MMW Weideman

LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
25 day of June A.D., 2001

Notary

Laura S. Harding

Commission Expires

11/23/02

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a
newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

June 22 2001

and ending with the issue dated

June 22 2001

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 22nd day of

June 2001

Godi Benson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

NOTICE OF PUBLICATION June 22, 2001

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 14th day of June, 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL
LORI WROTENBERY, Director
#18254

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

01100060000 67500894
State of New Mexico Oil &
1220 S. St. Francis
Santa Fe, NM 87505

Ford, Jack

From: Martin, Ed
Sent: Tuesday, June 19, 2001 1:16 PM
To: 'Santa Fe New Mexican'
Cc: Ford, Jack
Subject: Public Notices

Attn: Legal Notices Dept.

Please publish the attached notices one time immediately upon receipt of this request. Upon publication, please send the following to this office:

1. Publisher's affidavit
2. Invoice for ad (Our purchase order # is 01199000033)

Please publish no later than Monday, June 25, 2001.

If you have any questions, call me at 476-3492 or reply to this message.

Thank you.



Publ. Notice
GW-061.doc



Publ. Notice
GW-079.doc



Publ. Notice
GW-076.doc

Ford, Jack

From: Martin, Ed
Sent: Tuesday, June 19, 2001 1:27 PM
To: 'Hobbs News-Sun Attn: Brenda Tison'
Cc: Ford, Jack
Subject: Public Notices

Attn: Legal Notices

Please publish the attached notice one time immediately upon receipt of this request.

Upon publication, please send to this office:

1. Publisher's affidavit
2. Invoice for ad (our purchase order # is 01199008196

Please publish no later than Monday, June 25, 2001.

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



Publ. Notice
GW-076.doc

NOTICE OF PUBLICATION

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

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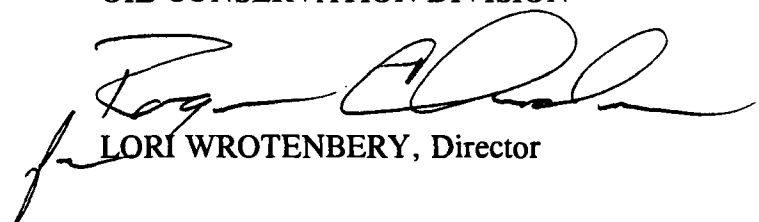
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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 14th day of June, 2001.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**


LORI WROTENBERY, Director

SEAL

DISCHARGE PLAN GW-076

RENEWAL

HOBBS SERVICE FACILITY
LEA COUNTY, NM

STAR TOOL CO.
PO BOX 2008
HOBBS, NM 88241

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised January 24, 2001 Submit Original Plus 1 Copy to Santa Fe 1 Copy to Appropriate District Office

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

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

*Filing Fee
Paid*

New

Renewal

Modification

1. Type: Oilfield Fishing Tool Service Company

2. Operator: Star Tool Company

Address: P.O. Box 2008 Hobbs, NM 88241

Contact Person: David T. Taylor Phone: (915) 557-6620

3. Location: N.E. 1/4 N.W. 1/4 Section 32 Township
18S Range 38E Lea Co.

Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.

12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.

13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

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

Name:

David E. Caylor

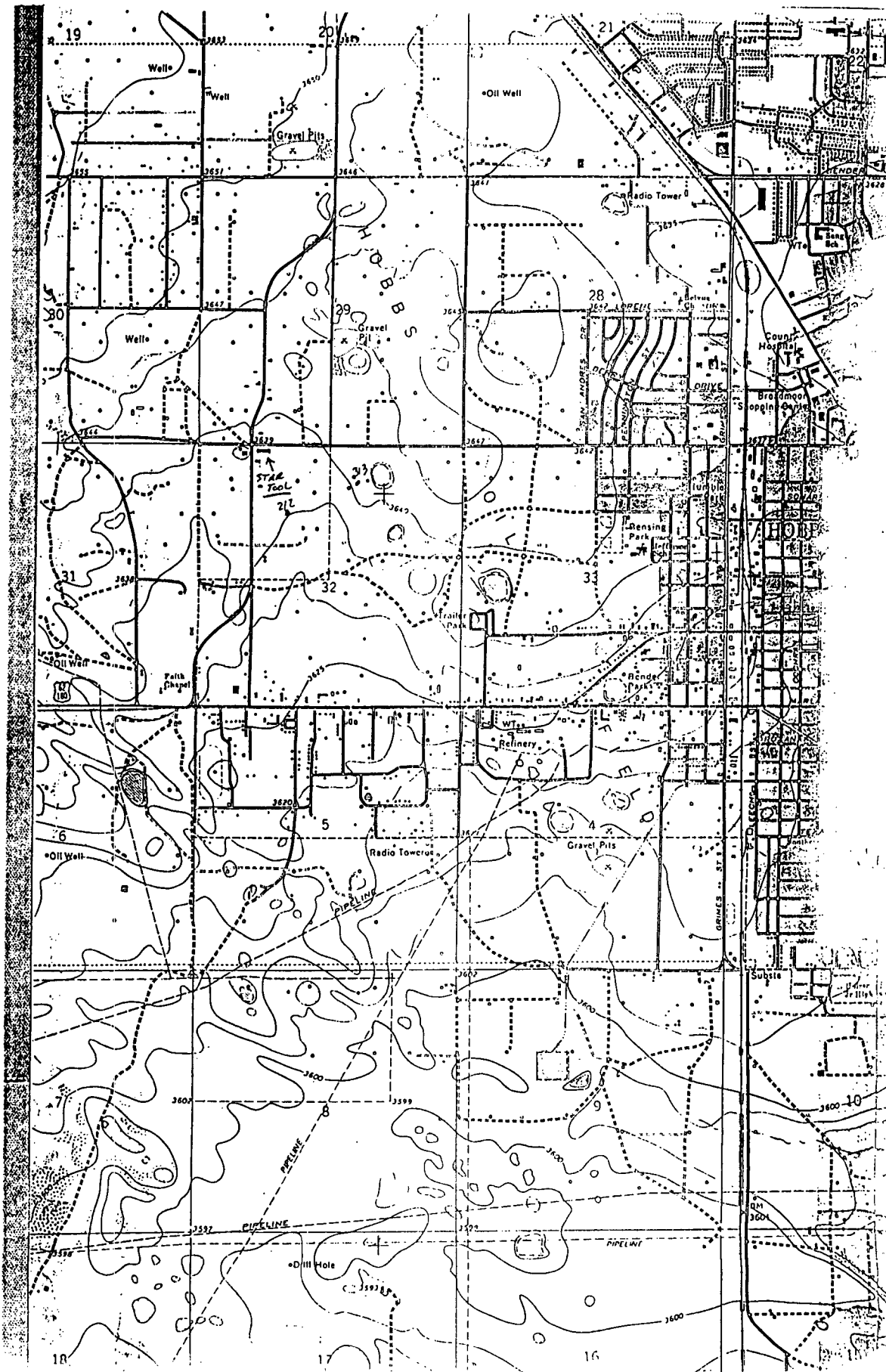
Signature:

Title:

President

Date:

5-28-01



DISCHARGE PLAN STAR TOOL CO.

III. LOCATION OF DISCHARGE

We have submitted a topograpgical map of the facility site plan.

The legal description:

NE/4 NW/4 Section 38 Township 18S Range 38E in Lea County

IV. LANDOWNERS

DAVID T. TAYLOR
1720 S. COUNTY RD. 1133
MIDLAND, TEXAS 79706

V. FACILITY DESCRIPTION

REFER TO EXISTING PLAN. NO CHANGES.

VI. MATERIALS STORED OR USED AT THE FACILITY

In addition to the chemicals listed in our existing plan, we now use and store a liquid soap, 'Cougar Xtra'. Approximately 300 gals. a month are used and 600 gals. are stored. They are stored in 2 300 gal. tanks, one located behind and adjacent to the BOP shop and the other on the rear steam pad. MSDS sheets are attached.

MATERIAL SAFETY DATA SHEET

COUGAR XTRA

- 1 HHS HEALTH
- 0 HHS FLAMMABILITY
- 0 HHS REACTIVITY
- C HHS PERSONAL PROTECTION

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME..... COUGAR CLEANING EQUIPMENT
PHONE NUMBER..... (915)381-5450
EMERGENCY PHONE NUMBER..... 1-800-535-5053
EFFECTIVE DATE.....
REVISED DATE..... JUNE 1998
TRADE NAME..... COUGAR XTRA
CHEMICAL FAMILY..... BIODEGRADABLE INDUSTRIAL DETERGENT
CAS NUMBER..... NONE
CHEMICAL FORMULA..... BLEND

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (UNIT)	PROD. CAS #
SODIUM TRIPOLY PHOSPHATE	CONF.	NONE LISTED	7758-29-4
SODIUM HYDROXIDE	CONF.	OSHA: CEILING = 2MG/M3 ACGIH (TLV): CEILING = 2MG/M3	1310-73-2

TOXIC SUBSTANCES CONTROL ACT 40 CFR 710. Sources of the raw materials used in this product assure that all chemical ingredients included are in compliance with section 8 (b), or are otherwise in compliance with the Toxic Substances Control Act.

SECTION III - PHYSICAL DATA

BOILING Point (F)..... APPROXIMATELY 212 DEGREES F
FREEZING Point (F) :..... NOT DETERMINED
VAPOR PRESSURE (mm Hg)..... NOT DETERMINED
VAPOR DENSITY (Air=1)..... APPROXIMATELY 1
SOLUBILITY IN WATER..... COMPLETELY
APPEARANCE/ODOR..... GREEN LIQUID
SPECIFIC GRAVITY (H2O=1)..... APPROXIMATELY 1.18
PH..... 12

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... NON FLAMMABLE
LOWER FLAM LIMIT..... NOT APPLICABLE
UPPER FLAME LIMIT..... NOT APPLICABLE
EXTINGUISHING MEDIA..... NOT APPLICABLE

MATERIAL SAFETY DATA SHEET

COUGAR XTRA

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... None Listed For This Product

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	NONE	Irritant	Irritant

HEALTH HAZARDS..... Acute, Irritating to skin and eyes.

CARCINOGENICITY:	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact.

FIRST AID PROCEDURES..... In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... STABLE

CONDITIONS TO AVOID..... STRONG ACIDS

INCOMPATIBLE MATERIALS... STRONG ACIDS

DECOMPOSITION PRODUCTS... From Fire; Smoke, Carbon Dioxide, Carbon Monoxide, & Oxides of Phosphorous.

HAZARDOUS POLYMERIZATION. WILL NOT OCCUR

POLYMERIZATION AVOID..... NONE KNOWN

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

WASTE DISPOSAL METHOD.... Industrial Waste. Follow State Regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... NOT NORMALLY REQUIRED

VENTILATION..... NOT NORMALLY REQUIRED

MECHANICAL EXHAUST..... NOT NORMALLY REQUIRED

LOCAL EXHAUST..... NOT NORMALLY REQUIRED

PROTECTIVE GLOVES..... Wear impervious gloves

EYE PROTECTION..... Use goggles or face shield if spashing is likely

OTHER PROTECTIVE

EQUIPMENT..... EYEWASH FOUNTAIN AND SAFETY SHOWER

MATERIAL SAFETY DATA SHEET

COUGAR XTRA

=====

HANDLING AND STORAGE..... Wear impervious gloves Use goggles or face shield if spashing is likely

PRECAUTIONARY MEASURES... Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take firstaid action shown in Section V.

DOT HAZARD CLASS..... CORROSIVE, 8

DOT SHIPPING NAME..... CLEANING COMPOUND, CORROSIVE LIQUID, n.o.s., (CONTAINS SODIUM HYDROXIDE), 8, UN1760, PG 11, COUGAR XTRA

DOT REPORTABLE QUANTITY (RQ)..... >190,000 POUNDS BASED ON TRISODIUM PHOSPHATE

UN NUMBER..... UN 1760

NA NUMBER..... NOT APPLICABLE

PACKAGING SIZE..... VARIED

DOT LABEL REQUIRED..... CORROSIVE LIQUID

=====

SECTION X - REGULATORY

=====

EPA ACUTE..... YES

EPA CHRONIC..... YES

EPA IGNITABILITY..... NO

EPA REACTIVITY..... NO

EPA SUDDEN RELEASE OF PRESSURE..... NO

CERCLA RQ VALUE..... >190,000 POUNDS BASED ON TRISODIUM PHOSPHATE

SARA TPQ..... NONE

SARA RQ..... NONE

SARA SECTION 313..... NOT LISTED

EPA HAZARD WASTE #..... D002 CORROSIVE

CLEAN AIR ACT..... NOT LISTED

CLEAN WATER ACT..... LISTED, SEC 311

FOOT NOTES NA - NOT APPLICABLE ND - NOT DETERMINED

THIS PRODUCT'S SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THIS PRODUCT. SUCH CONDITIONS SHOULD COMPLY WITH ALL FEDERAL REGULATIONS CONCERNING THE PRODUCT.

MATERIAL SAFETY DATA SHEET

Date: JUNE , 1999

CHEMICAL NAME: COUGAR ULTRA KLEEN

SYNONYMS:

CHEMICAL FAMILY: Detergents

FORMULA: Anionic/nonionic blend

MOLECULAR WEIGHT:

TRADE NAME AND SYNONYMS: COUGAR ULTRA KLEEN

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	219°F.	FREEZING POINT	20°F.
SPECIFIC GRAVITY (H ₂ O = 1)	1.05	VAPOR PRESSURE at 20°C.	
VAPOR DENSITY (air = 1)	1.13	SOLUBILITY IN WATER. % by wt. at 20°C.	complete
PER CENT VOLATILES BY VOLUME	none	EVAPORATION RATE (Butyl Acetate = 1)	none
APPEARANCE AND ODOR	yellow		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
None		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	None	AUTOIGNITION TEMPERATURE	
FLAMMABLE LIMITS IN AIR, % by volume		LOWER	1.1
		UPPER	
EXTINGUISHING MEDIA	WATER		
SPECIAL FIRE FIGHTING PROCEDURES	NONE		
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE		

EMERGENCY PHONE NUMBERS

1-800-535-5053

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	None
EFFECTS OF OVEREXPOSURE	May cause skin irritation or eye damage in concentrate form
EMERGENCY AND FIRST AID PROCEDURES	<p>Flush skin with water</p> <p>Flush eyes with boric acid solution.</p> <p>Get medical attention</p>

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	
UNSTABLE	STABLE		
--	✓		
INCOMPATIBILITY (materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS		Not applicable	
HAZARDOUS POLYMERIZATION		CONDIT ONS TO AVOID	Oxidizing Agents
May Occur	Will not Occur		

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Flush with water
WASTE DISPOSAL METHOD	open pit or sewage

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)		none	
VENTILATION	LOCAL EXHAUST	none	SPECIAL --
	MECHANICAL (general)		OTHER --
PROTECTIVE GLOVES		yes	EYE PROTECTION goggles*
OTHER PROTECTIVE EQUIPMENT		*when using high pressure sprayers	

VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	<p>Contains phosphates & silicates</p> <p>Keep away from children</p>
OTHER HANDLING AND STORAGE CONDITIONS	

VII. SOURCES AND QUANTITIES OF EFFLUENT AND WASTE
SOLIDS GENERATED AT THE FACILITY

Refer to existing plan. No changes in operation or waste stream generation.

VIII. SUMMARY DESCRIPTION OF EXISTING LIQUID AND
SOLIDS WASTE COLLECTION AND DISPOSAL

The only change to existing plan is the use of a solvent recycling system. Varsol is no longer disposed of off site. Waste residues from this process will be characterized and disposed of as per OCD regulations.

IX. PROPOSED MODIFICATIONS TO EXISTING
COLLECTION/TREATMENT/DISPOSAL PROCEDURES

No modifications are deemed necessary at this time.

X. ROUTINE INSPECTION AND MAINTENANCE PLAN

A routine inspection of chemical storage areas, waste water recycling equipment, fuel storage areas and solvent recycling area will be conducted once a week. Documentation of the inspection will be kept. It will include the date, time of inspection, name of person conducting inspection, approval of supervisor and will list any corrective action(s) that were taken.

A routine inspection will be made once a year of all below grade sumps. The sumps will be steam cleaned and visually inspected for cracks and general integrity. Photographic evidence of this inspection will be kept on site for review by OCD officials.

Routine testing of all below grade waste water lines will be conducted every 5 yrs. Lines will be pressure tested to a pressure of 3 PSI above normal working pressure for a minimum of 30 mins. Gravity flow (drain lines) will be tested with a 10' static column of water for a minimum of 30 mins.

XI. CONTINGENCY PLAN FOR REPORTING AND CLEANUP OF SPILLS AND RELEASES

All tanks with a potential to leak have been placed in sealed secondary containment areas which have a capacity to contain at least 1 1/2 times the volume of the largest tank or collective volumes of interconnected tanks. As part of this plan, routine inspection will be made on tanks in all locations. In the event of a small leak, repairs will be made to the leaking vessel and the leak will be cleaned as necessary. In the event of a large leak, the local office of OCD will be notified immediately as per OCD rule #116. The necessary cleanup and monitoring will follow.

XII. FACILITY GEOLOGICAL/HYDROLOGICAL INFORMATION

Refer to existing plan. No Changes

XIII. CLOSURE PLAN

In the event of facility closure, Star Tool co. will remove all chemicals, fuel, lubricants, solvents, soaps, paint and paint related liquids (i.e. reducers, thinners, etc.) and waste water associated with operations from the facility. All underground lines will be emptied of any fluids and a final pressure test will be conducted on all waste water lines. All piping, dispensers, valves, hoses and leak detection equipment associated with fuel and liquid lubricants will be emptied of their contents. All vaulted steel sumps will be emptied of their contents and steam cleaned. An inspection will be made of the vault to insure that there were no leaks. If a leak is detected, core samples will be taken of the adjacent soil. Analysis will be done on the soil to demonstrate that the integrity of the vault was not compromised. All drums and chemical storage devices will be removed from the facility.

XIIIIa. PRESSURE TESTING OF UNDERGROUND LINES

In March of this year, Star Tool Co. hired a plumber liscensed by the state of New Mexico to pressure test all underground waste water lines. The subject lines were pressure tested to 3 PSI above normal operating pressure for a minimum of 30 mins. Gravity flow lines (drain lines) were tested with a 10' static column of water for a minimum of 30 mins. All waste water lines currently in place held this pressure and are considered to be in proper operating condition. Documentation of pressure test results are kept at the facility and available for review by OCD. Also enclosed is a copy of the letter sent by the plumber performing the tests.



& AIR CONDITIONING

May 07, 2001

Star Tool
1000 W. County Road
Hobbs, New Mexico 88240

Re: Water line test

To Whom It May Concern:

We performed thirty minute test on 3/4" underground air line and 3" underground suction line from B.O.P. shop to the water cleansing tanks. A test on the 3/4" line was done at 50 PSI and detected no leakage. A test on the 3" line was done at 30 PSI and detected no leakage. The test on the 4" underground seepage line was also performed from the washbay to the retrieval pit with water at 10' water column. No leakage detected. Copies of the charts are included.

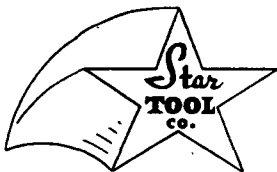
If we can be of any further service to you, please call. Thank you for your business.

Sincerely,

Patrick Bristow

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 5/29/01
or cash received on in the amount of \$ 100.00
from Star Tool Co.
for Hobbs Service Facility GW-076
Submitted by: (Facility Name) Date: 6/5/01 (DP No.)
Submitted to ASD by: Date:
Received in ASD by: Date:
Filing Fee ☒ New Facility ☐ Renewal ☒
Modification ☐ Other (Specify)
Organization Code 521.07 Applicable FY 2001
To be deposited in the Water Quality Management Fund.
Full Payment ☒ or Annual Increment ☐



STAR TOOL CO.

P.O. BOX 2008
HOBBS, NEW MEXICO 88241

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

95-183/1122
5

Vendor No.

Check Date

5/29/01

Check No.

Amount of Check

\$100.00

One hundred & no/100-----
Pay to the order of NMED-Water Quality Management

STAR TOOL CO.

By

John Brown

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

Invoice Date	Invoice Number	Description	Gross Amount	Discount	Net Amount
5/29/01		NMED-Water Quality Mgt			100.00
			Vendor Number	Check Date	Check Number
				5/29/01	
					Check Amount
					\$100.00

DETACH BEFORE DEPOSITING CHECK

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN

OIL CONSERVATION DIV.

01 MAY 31 PM 1:57

H. Don Rodgers
Star Tool Co.
PO Box 2008
Hobbs, NM 88241

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

To whom it may concern;

Enclosed is the renewal application for our discharge plan which will expire October 2. Only changes to existing plan were included. I have submitted a copy of this to the district 1 office in Hobbs. If there are any questions feel free to contact me at: (505)397-4988 office, (915)634-1004 mobile.

Sincerely,

H. Don Rodgers

2001-04-06 09:28 AM

P.O. Box 2018
Tombas, NM 88240

Fax Transmitted

Date *4/5/01* # of pages *2*

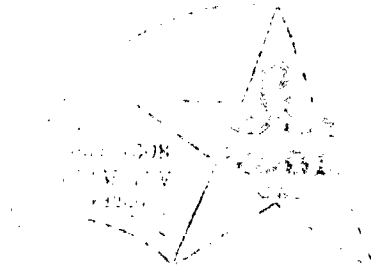
To: *John*

Company: *D.M. Oil Construction*

Regarding:

From: *John*

IF THERE ARE ANY PROBLEMS WITH THE
TRANSMISSION PLEASE CALL (505) 397-4988
FAX (505) 397-3675



THE NEW MEXICO OIL COMMISSION

April 4, 2001

New Mexico Oil Commission
Santa Fe, NM

Attn: [illegible]

[illegible]

The Town of Hobbs, NM is changing the destination of solid waste for the
debris site for an extended period of time.

Thank you,

[Handwritten signature]

Osval Molina
Shop Manager

OM/ol



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

February 12, 2001

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 0159

Mr. David T. Taylor
Star Tool Company
P.O. Box 2008
Hobbs, New Mexico 88240

RE: Discharge Plan Renewal Notice for the Star Tool Company Facility

Dear Mr. Taylor:

Star Tool Company has the following discharge plan, which expires during the current calendar year.

GW-076 expires 10/2/2001 – Hobbs Facility

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

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

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

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

Sincerely,



Roger C. Anderson
Oil Conservation Division

RCA/wjf

cc: OCD Hobbs District Office

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
Article Sent To:	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Name (Please Print Clearly) (To be completed by mailer) <i>D. Taylor</i>	
Street, Apt. No.; or PO Box No. <i>Star Tool</i>	
City, State, ZIP+ 4 <i>610-076</i>	

7099 3220 0000 5051 0159

P\$ Form 3800, July 1999 See Reverse for Instructions



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

June 17, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-611

Mr. David T. Taylor
President
Star Tool Company
P.O. Box 2008
Hobbs, New Mexico 88240

RE: Site Inspection Corrective Action Plan - Approval
Discharge Plan GW-076
Star Tool Hobbs Facility

Dear Mr. Taylor:

The New Mexico Oil Conservation Division (OCD) has received Star Tool Company's above mentioned "Site Inspection Corrective Action Plan" as signed by yourself on June 11, 1997. The plan addresses the concerns and requirements of the May 9, 1997 "Renewal Inspection" report from OCD for the GW-076 facility. **The proposed "Site Corrective Action Plan" is hereby approved.**

Note, that OCD approval does not relieve Star Tool Company of liability should the plans implementation at the facility GW-076 result in contamination of surface waters, ground waters or the environment. Further, OCD approval does not relieve Star Tool Company from responsibility for compliance with any other federal, state, and local rules/regulations that may apply to the Star Tool Company.

If Star Tool Company has any questions with regards to this approval feel free to contact me at (505)-827-7156.

Sincerely,

Patricio W. Sanchez
Petroleum Engineering Specialist
Environmental Bureau - OCD

c: OCD Hobbs District

PS Form 3800, April 1995

Postmark or Date	
TOTAL Postage & Fees	\$
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	

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

P 326 936 611



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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

May 15, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-380

Mr. David T. Taylor
President
Star Tool Company
P.O. Box 2008
Hobbs, New Mexico 88240

RE: Minor Modification - Approval
Discharge Plan GW-076
Star Tool Hobbs Facility

Dear Mr. Taylor:

The New Mexico Oil Conservation Division (OCD) has received Star Tool Company's letter dated April 28, 1997 requesting the installation of a "Wash Water" recycling system at the Hobbs facility (GW-076) location. The Star Tool Company request is considered a minor modification to the above referenced discharge plan and public notice will not be issued. The requested minor modification is hereby approved, with the following conditions:

1. Star Tool Company will contact Mr. Wayne Price with the Hobbs District office 72 hours in advance of beginning installation of the wash facility. (505)-393-6161.
2. Star Tool Company upon completion of the installation of the wash facility will submit to the OCD Santa Fe and Hobbs District Offices "As-Built Drawings."
3. Any wastes that are to be disposed of offsite that are related to the wash facility will be properly characterized in accordance with 40 CFR Part 261 and approved by the Santa Fe OCD office prior to disposal. (505)-827-7153.

The Application for modification was submitted pursuant to Water Quality Control Commission (WQCC) Regulation 3107.C and is approved pursuant to WQCC Regulation 3109.

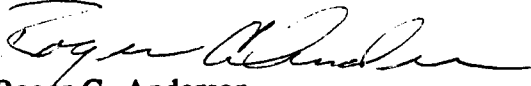
Please note that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3107.C Star Tool Company is required to notify the Director of any facility expansion, production increase or process modification that would result in a significant modification in the discharge of potential ground water contaminants.

Mr. David Taylor
Star Tool Company
Minor Modification - GW-076
May 15, 1997
Page No. 2

Note, that OCD approval does not relieve Star Tool Company of liability should operation's at the facility GW-076 result in contamination of surface waters, ground waters or the environment. Further, OCD approval does not relieve Star Tool Company from responsibility for compliance with any other federal, state, and local rules/regulations that may apply to the Star Tool Company.

If Star Tool Company has any questions with regards to this approval feel free to contact at (505)-827-7152 or Mr. Patricio Sanchez of my staff at (505)-827-7156.

Sincerely,


Roger C. Anderson
Bureau Chief
Environmental Bureau - OCD

RCA/pws

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

P 410 431 380

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

Sent to	
Star Tool - Mr. Taylor	
Street & Number	
Minor Mod.	
Post Office, State, & ZIP Code	
(Wash Recycle)	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Obex 1580
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Energy Minerals and Natural Resources Department

Oil Conservation Division

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

CC: ART SANCHEZ

TO: MARTYNE KIELING

Originated 8/8/97

Submit Origin
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator STAR TOOL
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site 1000 W. CTY RD HOBBS, NM 88240
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter TBD
3. Address of Facility Operator P.O. BOX 369 HOBBS, NM 88241	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 1000 W. CTY RD.	HOBBS, NM 88240
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

WASTE STREAM IS GENERATED FROM WASHING OILFIELD RENTAL TOOLS USED IN THE OIL AND GAS EXPLORATION AND PRODUCTION INDUSTRY. Wash Water

OLD HOBBS
OFFICE
MAY 07 1997
RECEIVED

Estimated Volume 500 BBLs. cy Known Volume (to be entered by the operator at the end of the haul) cy

SIGNATURE: Art Hilliker TITLE: GENERAL MANAGER DATE: MAY 6, 1997
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: ART HILLIKER TELEPHONE NO. 505/393-1079

(This space for State Use)
APPROVED BY: Martayne Kieling TITLE: Environmental Geologist DATE: 5/7/97
APPROVED BY: Martayne Kieling TITLE: Environmental Geologist DATE: 5/12/97

Printed in Hobbs 5/12/97

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

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

Form C-1
Originated By

Submit Orig
Plus 1 C
to appropr
District Of

cc: Art SARKHEZ
TO: MARLYNE KIELING

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator STAR TOOL
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site 1000 W. CTY RD HOBBS, NM 88240
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter <u>TBD</u>
3. Address of Facility Operator P.O. BOX 369 HOBBS, NM 88241	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 1000 W. CTY RD.	HOBBS, NM 88240
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

WASTE STREAM IS GENERATED FROM WASHING OILFIELD RENTAL TOOLS USED IN THE OIL AND GAS EXPLORATION AND PRODUCTION INDUSTRY. Wash Water

RECEIVED

MAY - 9 1997

Environmental Bureau
Oil Conservation Division

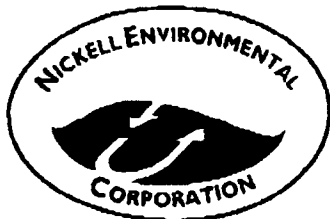
OLD HOBBS
OFFICE
MAY 8 7 1997
RECEIVED

Estimated Volume 500 BBLs. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Art Hilliker TITLE: GENERAL MANAGER DATE: MAY 6, 1997
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: ART HILLIKER TELEPHONE NO. 505/393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: Engr Engr DATE: 5/7/97
APPROVED BY: _____ TITLE: _____ DATE: _____

**ENVIRONMENTAL CONSULTING & REMEDIATION SERVICES**

May 7, 1997

Mr. Wayne Price
New Mexico Oil Conservation Division
Post Office Box 1980
Hobbs, New Mexico 88241

RE: Request for Disposal of Wash Water from Star Tool Facility in Hobbs, New Mexico
Nickell Project No. STA.501-1

Dear Mr. Price:

Nickell Environmental Corporation (Nickell Environmental) collected a representative sample of the waste water using a disposal bailer that also sampled the sheen of oil on top of the waste water which was less than 1/4 inch thick.

Nickell Environmental also completed a review of Material Safety Data Sheets (MSDS) that were provided by Star Tools for products that had the potential to contain methyl-ethyl-ketone (MEK). Only the MSDS on the fast dry enamel Star Tool Gold contained a deminimus quantity of MEK. Subsequently, the concentrations of MEK would not classify this material as a listed waste, and therefore, the waste water would also not be classified as a listed waste. Star Tools is unaware of any other sources of MEK.

Upon your review of this letter, should you have any questions or concerns, please feel free to contact me at (713) 726-9596. I appreciate your assistance in expediting this request in order to assist Star Tools in re-establishing normal operations.

Sincerely,
NICKELL ENVIRONMENTAL CORPORATION


Chan B. Patel
Senior Project Manager

CBP/csb

Enclosures

c: Billie Charo, CRI
Oscar Molina, Star Tools

msccompD/STAS-1NMOCD-itr.wpd

**OLD HOBBS
NEW
MAY 8 7 1997
RECEIVED**

**ENVIRONMENTAL CONSULTING & REMEDIATION SERVICES****FACSIMILE TRANSMITTAL**

DATE: 5-7-97

TO: Wayne Price
NMOC

FROM: Chan Patel
Nickell Env.

RE: 505-393-0720

FAX NO.: _____

NUMBER OF PAGES: 2 (Including This Coversheet)

COMMENTS:

The information contained in this Facsimile message is privileged and confidential information intended only for the use of the addressee. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and please return the original message to us at the address below via U.S. Postal Service. Thank you.

**ENVIRONMENTAL CONSULTING & REMEDIATION SERVICES****FACSIMILE TRANSMITTAL**

DATE:

5/6/97

TO:

Billy CurreCR I

FROM:

Chen Lalit

RE:

STR 101-1STAR TOOLS

FAX NO.:

~~180~~(505) 393-3615

NUMBER OF PAGES:

11

(Including This Coversheet)

COMMENTS:

The information contained in this Facsimile message is privileged and confidential information intended only for the use of the addressee. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and please return the original message to us at the address below via U.S. Postal Service. Thank you.

**ENVIRONMENTAL CONSULTING & REMEDIATION SERVICES**

May 6, 1997

Ms. Billie Charo
Controlled Recover, Inc.
Post Office Box 369
Hobbs, New Mexico 88240

RE: Waste Disposal
Nickell Project No. STR.101-1

Dear Ms. Charo:

As a follow-up to our telephone conversation on May 6, 1997, with Art Hilliker, I have prepared the documents that have been requested. Enclosed is a Certificate of Waste and analytical data to allow for the disposal of wash water from Star Tool's facility located at 1000 W. County Road in Hobbs, New Mexico to Controlled Recovery, Inc. (CRI) facility in Hobbs, New Mexico.

The process generating the waste is from pressure washing oilfield rental tools used in the oil and gas exploration and production industry. Approximately 500 bbls of waste is requested for disposal at your facility. The transportation company will be by an approved CRI transporter.

If you have any questions, please feel free to contact me at (713) 726-9596.

Sincerely,
NICKELL ENVIRONMENTAL CORPORATION

A handwritten signature in black ink, appearing to read "Chan B. Patel".

Chan B. Patel
Senior Project Manager

CBP/csb
Enclosures

c: Oscar Molina, Star Tools

miecompd/ss-1-crl.wpd

CERTIFICATE OF WASTE STATUS **NON-EXEMPT WASTE MATERIAL**

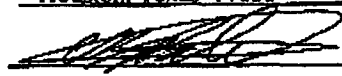
ORIGINATING LOCATION: Star Tools in Hobbs, New Mexico

SOURCE: Pressure Washing Oilfield Tools

DISPOSAL LOCATION: C.R.I. Inc., PO Box 369, Hobbs, NM 88240

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3.

I, the undersigned as the agent for Star Tools in Hobbs, New Mexico concur with the status of the waste from the subject site.

Name	<u>Chan B. Patel</u>
Title/Agency	<u>Senior Project Manager/Nickell Environmental</u>
Address	<u>11246 S. Post Oak, Suite 306</u>
	<u>Houston, Texas 77035</u>
Signature	<u></u>
Date	<u>May 6, 1997</u>

LABORATORY DATA REPORT CHECKLIST

- ☒ Name of Laboratory.
- ☒ Name of person responsible for analysis.
- ☒ Data (units)
Sample description (solid, liquid, etc.)
Field Code
Sampling Date
Receiving Date
- ☒ Cross reference to laboratory analysis record.
- ☒ Parameter being analyzed.
- ☒ Result of analysis with units specified.
- ☒ Analytical method used.
- ☒ Minimum detection value of analytical method used. (statement "ND" not acceptable)
- ☒ Quality control results (as appropriate).
 - Precision (deviation between sample and duplicate)
 - Extraction Accuracy (recovery of spike)
 - Instrument Accuracy (documentation of calibration)
- ☒ Signature of person responsible for analysis.

FIELD NOTES

Sample identification number:

WW-1

Purpose of sample:

Disposal of wash water

Analysis method to be used:

TCLP S.V. EPA 1311/8270
TCLP Vol. EPA 1311/8260
TCLP Metals - EPA -1311/6010
TCLP Mercury - EPA 1311/7470
IGNIT/F.P. - SW-846 1010
pH - SW-846 2.1.2
Cyanide RCI - SW 846 2.1.3
Sulfide RCI - SW 846 2.1.3
TPH GRO EPA 8015B

Who collected the sample:

Terry James

How the sample was collected:

Sampling Bailer

Sample quantity:

Six quart-size containers

Sample preservation, if any:

Ice

Date and time of sample:

April 28, 1997, 3:00 PM

Where the sample was collected:

From 500 barrel tank

Chain-of-Custody:

Attached

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

ANALYTICAL RESULTS FOR
NICKELL ENVIRONMENTAL CORP.
Attention: Terry James
#19 Barry Road
Midland, TX 79706

Prep Date: 04/29/97
Analysis Date: 04/29/97
Sampling Date: 04/25/97
Sample Condition: Intact & Cool
Sample Received by: JH
Project Name: Facility Assessment
& Sampling

May 1, 1997

Receiving Date: 04/29/97

Sample Type: Water

Project No: STA.501-i

Project Location: Hobbs, NM

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	FLASHPOINT (°F)
	EPA LIMIT =	---	500	250	---	<2 >12.5	>140 °F
T72496	NW-1	Non-reactive	<10	<2.5	Non-corrosive	7.7	>150
QC	Quality Control	---	---	---	---	7.0	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	--	---	---	---
% Instrument Accuracy		---	---	--	---	100	---

METHODS: EPA SW 846-2.1.3, 2.1.2, 1010.

CHEMIST: JT



Director, Dr. Blair Leftwich

5/1/97

DATE

6701 Aberdeen Avenue
Lubbock, Texas 79421
806-794-1296
FAX 806-794-1298

ANALYTICAL RESULTS FOR
Nickell Environmental
Attention Terry James
4113 W. Industrial.
Midland TX 79703

Date: May 05, 1997
Date Rec: 4/29/97
Project: STA.501-1
Proj Name: Facility Assessment & Sampling
Proj Loc: Hobbs, NM

Lab Receiving # : 9704000522
Sampling Date: 4/25/97
Sample Condition: Intact and Cool
Sample Received By: JH

TA#	Field Code	MATRIX	GRO* (mg/L)
T72496	WW-1	Water	11.3
QC			1
RPD			10
% Extraction Accuracy:			81
% Instrument Accuracy:			98

Reporting Limit:

0.1

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
8015G	EPA 5030	4/30/97	EPA 8015B	4/30/97	DH	1	1

* Gasoline Range Organics



Director, Dr. Blair Leftwich5-5-97

Date
TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis

6701 Aberdeen Avenue
Lubbock, Texas 79424
806-794-1296
FAX 806-794-1298

ANALYTICAL RESULTS FOR
NICKELL ENVIRONMENTAL CORP.
Attention: Terry James
#19 Barry Road
Midland, TX 79706

May 1, 1997
Receiving Date: 04/29/97
Sample Type: Water
Project No: STA.501-1
Project Location: Hobb, NM

Extraction Date: 04/30/97
Analysis Date: 04/30/97
Sampling Date: 04/25/97
Sample Condition: I & C
Sample Received by: JH
Project Name: Facility Assmnt
& Sampling

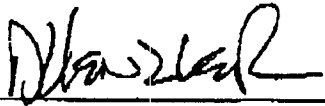
TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T72496 WW-1	QC	RPD	%EA	%IA
Vinyl chloride	0.2	0.05	ND	0.112	2	81	112
1,1-Dichloroethene	0.7	0.05	ND	0.099	1	101	99
Methyl Ethyl Ketone	200.0	0.05	1.71	0.114	1	94	114
Chloroform	6.0	0.05	ND	0.097	0	103	97
1,2-Dichloroethane	0.5	0.05	ND	0.097	1	94	97
Benzene	0.5	0.05	ND	0.100	2	101	100
Carbon Tetrachloride	0.5	0.05	ND	0.099	1	112	99
Trichloroethene	0.5	0.05	ND	0.101	2	106	101
Tetrachloroethane	0.7	0.05	ND	0.102	2	106	102
Chlorobenzene	100.0	0.05	ND	0.103	1	103	103
1,4-Dichlorobenzene	7.5	0.05	ND	0.105	0	98	105

SURROGATES	% Recovery
Dibromofluoromethane	93
Toluene-d8	93
4-Bromofluorobenzene	92

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: RP


Director, Dr. Blair Leftwich

5/1/97
DATE


TRACE ANALYSIS, INC.
A Laboratory for Advanced Environmental Research and Analysis

6701 Aberdeen Avenue

Lubbock, Texas 79424

806-794-1296

FAX 806-794-1298

May 1, 1997

Receiving Date: 04/29/97

Sample Type: Water

Project No: STA.501-1

Project Location: Hobbs, NM

TCLP Semi-Volatiles
(mg/L)

**ANALYTICAL RESULTS FOR
NICKELL ENVIRONMENTAL CORP.**

Attention: Terry James

#17 Barry Road

Midland, TX 79706

Extraction Date: 04/30/97

Analysis Date: 04/30/97

Sampling Date: 04/25/97

Sample Condition: I & C

Sample Received by: JH

Project Name: Facility Asent
& Sampling

	EPA Limit	Reporting Limit*	T72496 WW-1	QC	RPD	SEA	VIA
Pyridine	5.0	0.5	ND	89	19	13	111
1,4-Dichlorobenzene	7.5	0.5	ND	84	3	43	105
o-Cresol	200.0	0.5	ND	77	9	48	96
m,p-Cresol	200.0	0.5	ND	75	8	45	94
Total Cresol	200.0	0.5	ND	---	---	---	---
Hexachloroethane	3.0	0.5	ND	79	2	45	99
Nitrobenzene	2.0	0.5	ND	74	4	51	93
Hexachlorobutadiene	0.5	0.1	ND	80	5	49	100
2,4,6-Trichlorophenol	2.0	0.5	ND	78	3	48	98
2,4,5-Trichlorophenol	400.0	0.5	ND	81	4	56	101
2,4-Dinitrotoluene	0.13	0.1	ND	82	3	58	103
2,4-D	10.0	0.5	ND	85	8	46	106
Hexachlorobenzene	0.13	0.1	ND	85	3	86	106
2,4,5-TP	1.0	0.5	ND	86	6	45	108
Pentachlorophenol	100.0	0.5	ND	80	4	72	100
Chlordane	0.03	0.02	ND	0.0515	2	89	103
Toxaphene	0.5	0.5	ND	1.98	39	65	99
Lindane	0.4	0.02	ND	0.025	0	84	100
Heptachlor	0.008	0.002	ND	0.025	0	78	100
Heptachlor epoxide	0.008	0.002	ND	0.025	0	84	100
Total Heptachlor	0.008	0.02	ND	---	---	---	---
Endrin	0.02	0.02	ND	0.050	2	81	100
Methoxychlor	10.0	2.0	ND	0.25	0	92	100
Surrogates	% RECOVERY						
2-Fluorophenol	84						
Phenol-d6	88						
Nitrobenzene-d5	92						
2-Fluorobiphenyl	98						
2,4,6-Tribromophenol	108						
Terphenyl-d14	118						

*NOTE: Elevated reporting limits due to sample matrix interference.

Methods: EPA SW 846-1311, 8270, 8080.

CHEMIST: HC/CC/MB

ND - Not Detected


Director, Dr. Blair Leftwich

5/1/97
DATE

TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1295

FAX 806•794•1298

ANALYTICAL RESULTS FOR NICKELL ENVIRONMENTAL CORP.

Attention: Terry James

#19 Barry Road

Midland, TX 79706

May 1, 1997

Receiving Date: 04/29/97

Sample Type: Water

Project No: STA.501-1

Project Location: Hobbs, NM

Extraction Date: 04/29/97

Analysis Date: 05/01/97

Sampling Date: 04/25/97

Sample Condition: I & C

Sample Received by: JH

Project Name: Facility Assmnt
& Sampling

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T72496	WW-1	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	<0.20	<0.01
QC	Quality Control	5.0	5.0	5.0	5.1	4.9	1.02	5.0	0.0048
Reporting Limit		0.10	0.10	0.02	0.05	0.10	0.05	0.20	0.01
RPD		1	2	3	2	5	25	3	1
% Extraction Accuracy		95	98	98	77	93	90	101	100
% Instrument Accuracy		99	101	100	101	97	102	100	96

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR

Hg: RC

METHODS: EPA SW 846-1311, 6010, 7470.

TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.15 mg/L Ag; 0.05 mg/L Hg.

TCLP METALS QC: 5.0 mg/L As, Se, Cd, Cr, Pb, Ba; 1.0 mg/L Ag; 0.005 mg/L Hg.


Director, Dr. Blair Leftwich

5/1/97
Date

MAY-06-1997 15:33

NICKELL ENVIRONMENTAL

P.10/11

TraceAnalysis, Inc.

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Terry James

Phone #: 915/520-4700

FAX #: 915/520-3844

ANALYSIS REQUEST

SPECIAL HANDLING

Company Name & Address:

Nickell Env Corp, #19 Barr Rd, Midland, TX 79706

Project #:

STA. 501-1

Project Name:

Facility Assessment & Sampling

Project Location:

Hobbs, New Mexico

Sampler Signature:

Terry James

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD				SAMPLING		BTEX, MTBE	TPH	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	8240 / 8280	8270	Turn around # of days	Fax ASAP	Hold
				WATER	SOIL	AIR	SLUDGE	Solid	HCL	HNO3	ICE	NONE	DATE	TIME												
<u>12496</u>	<u>WW-1</u>	<u>6</u>	<u>0.5L</u>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<u>4/28</u>	<u>5:00</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>97</u>	<u>Filter-1</u>	<u>2</u>	<u>0</u>					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>4/28</u>	<u>2:00</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

Relinquished by:

Date:

Time:

Terry James 4/28/97 5:00

Received by:

Date:

Time:

Nelen Shelton 4/28/97 5:00 PM

REMARKS

Turn around ASAP on WW-1

Relinquished by:

Date:

Time:

Nelen Shelton 4/28/97 8:30 PM

Received by:

Date:

Time:

Normal turnaround on Filter-1

Relinquished by:

Date:

Time:

Received at Laboratory by:

Date:

Time:

J.O. Nickell 4/29/97 9:00

0,2

4/29/97

Nickell

TOTAL P.11

shipped Greyhound

CT

8 samples - HS

10:00

522

MAY-06-1997 15:34
MAY-06-97 11:01A

NICKELL ENVIRONMENTAL

P.11/11

Pat Sanchez

From: Wayne Price
Sent: Friday, May 09, 1997 7:53 AM
To: Pat Sanchez
Subject: Registered: Wayne Price

Your message

To: Wayne Price
Subject: RE: Star Tool-Hobbs GW-076
Sent: 5/8/97 10:13:00 AM

was read on 5/9/97 7:53:00 AM

Pat Sanchez

From: System Administrator
Sent: Thursday, May 08, 1997 10:13 AM
To: Wayne Price
Subject: Delivered: RE: Star Tool-Hobbs GW-076
Importance: High

Your message

To: Wayne Price
Subject: RE: Star Tool-Hobbs GW-076
Sent: 5/8/97 10:13:48 AM

was delivered to the following recipient(s):

Wayne Price on 5/8/97 10:13:50 AM

Pat Sanchez

From: Pat Sanchez
Sent: Thursday, May 08, 1997 10:13 AM
To: Wayne Price
Subject: RE: Star Tool-Hobbs GW-076
Importance: High

Wayne, received your notification. I am in the process of writing up Satr Tools inspection report for the Hobbs facility GW-076.

Thanks for your update!!!! PWS

From: Wayne Price
Sent: Thursday, May 08, 1997 8:22 AM
To: Pat Sanchez
Cc: Roger Anderson
Subject: Star Tool-Hobbs GW-076
Importance: High

Memorandum of telephone conversation: May 5, 1997

Oscar Molina-Star Tool :: Price-NMOCD

Mr. Molina gave me a progress report on their new proposed modifications.

The BOP Vat "caustic" material has been sampled and it appears due to the high PH it will be handled as hazardous waste.

NMOCD recommended to Star Tool to consult with their environmental consultant on the proper reporting requirements for this waste.

cc: Oscar Molina-Star Tool

STAR TOOL COMPANY

P O BOX 2008
HOBBS, NM 88241

FAX TRANSMITTAL

DATE 4-28-97 # OF PAGES 4
(including this sheet)

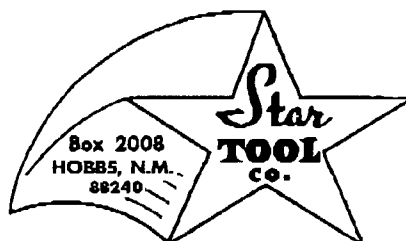
TO: PAT. SANCHEZ

COMPANY: O.C.D. - SANTA FE, N.M.

REGARDING: Proposed Modifications

FROM: O.J. Molina

IF THERE ARE ANY PROBLEMS WITH THIS
TRANSMITTAL PLEASE CALL (505) 397-4988.
FAX (505) 397-3675



PHONES: (505) 397-1533 — 393-2643

April 28, 1997

Mr. Pat Sanchez
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Mr. Sanchez;

Here are the plans for the proposed modifications of our existing system.

After your visit to our facility, We are currently storing all of our wastes until we get results back from the labs on all the tests we've taken from our sumps and our 500 barrel tank. After it is clear that it's non-hazardous. We hope to get permission from you, so that we can dispose of our generated waste however deemed appropriate.

"Safety Clean" has also been brought in to test and dispose of the contents of our Bop Vat.

The recycling system will work as follows:
The Bop Shop, sump pump will draw fluid out of the Bop Shop, thru the oil separator and into the baffled recirculation tank, being chlorinated in the process. There it will constantly be circulated thru one of two sand filters and circulated thru evaporation jets and eventually end up in our 500 barrel storage tank. There it will be transferred to a pressure tank and reused in our steamers. The fluid from the Wash Bay & the Back Steam Pad will also tie into the oil separator and go thru the same process.

When the system becomes too contaminated to be re-used, tests will be run to determine characteristics of fluids and or sludge and then disposed of in an appropriate manner.

The changes that will be made are as follows:

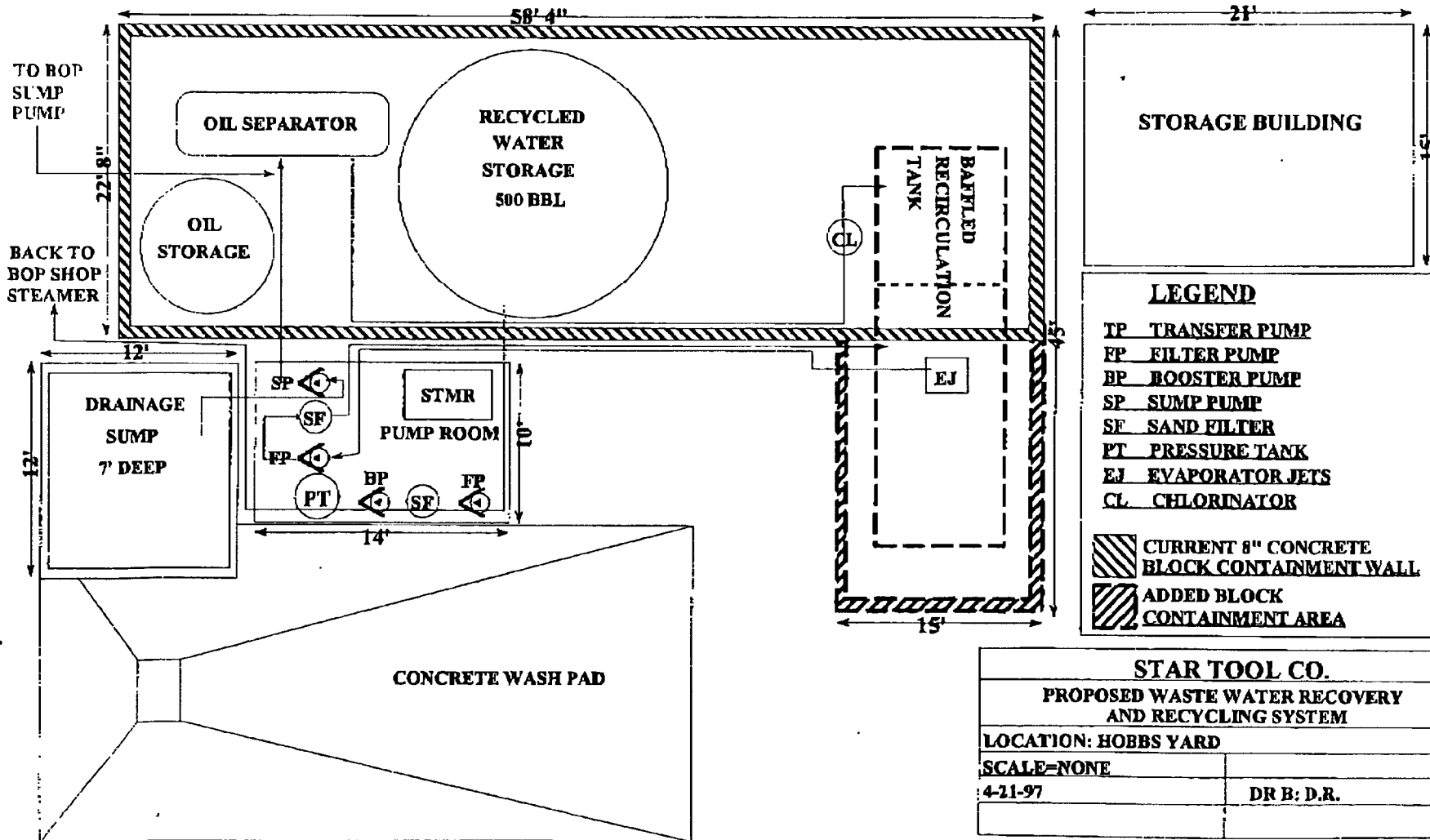
- 1) Lining the brimmed area where all tanks and oil storage tanks will be.
- 2) Knocking down part of the cinder block brim so that the recirculation tank can be installed.
- 3) Building cinder block brim around remainder of tank.
- 4) Plumbing, Transfer Pump, (2) Filter Pumps, Booster Pump, (2) Sand Filters, Pressure Tank, with all lines above ground.
- 5) Building a steel box for the inside of the Drainage Sump with leak detection ports.

These are just some of the changes, as we are waiting for your report to get those things corrected too.

Sincerely,

O.S. 

Oscar Molina



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

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

FORM C-13
Originated 8/8/95

Submit Origin
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator STAR TOOL CO.
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACILITY
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter SONNY'S
3. Address of Facility Operator P.O. BOX 1737 EUNICE	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) CORNER OF SANGER AND WEST COUNTY ROAD, HOBBS, N.M.	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is for Satr Tool Co.'s Hobbs Facility. This waste is generated when the generator cleans their fishing tools, reverse units, etc. I have included a certificate of waste status and chain of custody. Sundance would like approval to accept this material into our Parabo Facility. There is approximately 85 bbls. of sludge to be disposed of.

RECEIVED

DEC 17 1996

Environmental Bureau
Conservation Division

Estimated Volume 85 bbls cy Known Volume (to be entered by the operator at the end of the haul) cy

SIGNATURE: Donna Roach TITLE: Office Manager DATE: 12-11-96
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Donna L. Roach TELEPHONE NO. 505-394-2511

OLD HOBBS
OFFICE
DEC 13
RECEIVED

(This space for State Use)		
APPROVED BY: <u>[Signature]</u>	TITLE: <u>PETR ENG.</u>	DATE: <u>12/12/96</u>
APPROVED BY: <u>[Signature]</u>	TITLE: <u>PETR ENG.</u>	DATE: <u>12/17/96</u>

DENIED per phone call c 2:45 pm 4/16/97
ONB MK

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 7/29/96,
or cash received on _____ in the amount of \$ 690.00

from Star Tool

for Hobbs Service Loc GW-076

Submitted by: _____ Date: _____
(Facility Name) (DP No.)

Submitted to ASD by: R. Anderson Date: 8/22/96

Received in ASD by: [Signature] Date: 8/22/96

Filing Fee _____ New Facility _____ Renewal X

Modification _____ Other _____
(Specify)

Organization Code 521.07 Applicable FY 97

To be deposited in the Water Quality Management Fund.

Full Payment X or Annual Increment _____



STAR TOOL CO.

P.O. BOX 2008

HOBBS, NEW MEXICO 88241

Norwest Bank New Mexico, N.A.
Hobbs, New Mexico

95-199
1122

Vendor No.

60250

Check Date

7/29/96

*****690DOLLARS AND NO CENTS

Check No.

[REDACTED]

Amount of Check

*****690.00*

Pay to the order of

NM OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA E. NEW MEXICO 87505

STAR TOOL CO.

By

[Signature]

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

Invoice Date	Invoice Number	Description	Gross Amount	Discount	Net Amount
7/29/96	7/29/96		690.00		690.00
RECEIVED AUG 05 1996 Environmental Bureau Oil Conservation Division					
			Vendor Number	Check Date	Check Number
			60250	7/29/96	[REDACTED]
					Check Amount
					690.00

DETACH BEFORE DEPOSITING CHECK

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

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

That the notice which is hereto attached, entitled
Notice Of Publication

~~and XXXXXXXX~~ ~~XXXXXX~~

..... ~~XXXXXX~~

~~XXXXXX~~ was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~on XXXXX week XXXXX~~ ~~same XXXX day of XXXX~~ for one (1) day

~~consecutive XXXX weeks~~, beginning with the issue of

June 18, 19 96

and ending with the issue of

June 18, 19 96

And that the cost of publishing said notice is the sum of \$ 40.80

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

Joyce Clemens

Subscribed and sworn to before me this 25th

day of June, 19 96

Jean Semer
Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 19 98

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 the New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505, Telephone (505)827-7131:

(GW-076) - STAR TOOL Company, Mr. David T. Taylor, (505)397-4988, P.O. Box 2008, Hobbs, NM, 88240, has submitted a Discharge Plan Renewal Application for their Hobbs service facility located in the NE/4 NW/4, Section 32, 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 44 feet with a total dissolved solids concentration of ranging from 300 to 700 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

Given under the Seal of the State of New Mexico Oil Conservation Commission at Santa Fe, New Mexico on this 10th day of June, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

William J. LeMay, Director

SEAL

Published in the Lovington Daily Leader June 18, 1996.

RECEIVED

The Santa Fe New Mexican

Since 1849. We Read You.

Environmental Bureau
Oil Conservation Division

NEW MEXICO OIL CONSERVATION
ATTN: SALLY MARTINEZ
2040 S. PACHECO
SANTA FE, NM 87505

AD NUMBER: 514221

ACCOUNT: 56689

LEGAL NO: 59867

P.O. # 96199002997

165 LINES once at \$ 66.00

Affidavits: 5.25

Tax: 4.45

Total: \$ 75.70

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, BETSY PERNER being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily news paper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 59867 a copy of which is hereto attached was published in said newspaper once each week for one consecutive week(s) and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 17th day of JUNE 1996 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/

Betsy Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
17th day of JUNE A.D., 1996



OFFICIAL SEAL

Candace C. Ruiz

NOTARY PUBLIC - STATE OF NEW MEXICO

My Commission Expires: 7/29/99

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

**ENERGY, MINERALS
AND NATURAL
RESOURCES
DEPARTMENT**

**OIL CONSERVATION
DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal 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-076) - STAR TOOL Company, Mr. David T. Taylor, (505)-397-4988, P.O. Box 2008, Hobbs, NM, 88240, has submitted a Discharge Plan

Renewal Application for their Hobbs service facility located in the NE/4 NW/4, plans based on information Section 32, Township 18 available. If a public hearing South, Range 38 East, is held, the director will approve or disapprove the proposed plans based on information in the discharge plan 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 44 feet with a total dissolved solids concentration of ranging from 300 to 700 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 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 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 plans based on information in the discharge plan stored in a closed top receptacle. Groundwater most likely to be affected by a

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 10th day of June, 1996.

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

Legal #59867
Pub. June 17, 1996

202 East Marcy Street • P.O. Box 2048 • Santa Fe, New Mexico 87501

505-983-3303 • (FAX) 505-984-1785

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 renewal 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-076) -STAR TOOL Company, Mr. David T. Taylor, (505)-397-4988, P.O. Box 2008, Hobbs, NM, 88240, has submitted a Discharge Plan Renewal Application for their Hobbs service facility located in the NE/4 NW/4, Section 32, 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 44 feet with a total dissolved solids concentration of ranging from 300 to 700 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 10th day of June, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY, Director

WJL/pws

S E A L

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 5/31/96
or cash received on in the amount of \$ 50.00
from Star Tool
for Hobbs 610-076
(Facility Name) (DP No.)
Submitted by: Date:
Submitted to ASD by: Date: 6/21/96
Received in ASD by: Date: 6-21-96
Filing Fee X New Facility Renewal
Modification Other
(Agency)
Organization Code 521.07 Applicable FY 96

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment



STAR TOOL CO.

P.O. BOX 2008
HOBBS, NEW MEXICO 88241

Norwest Bank New Mexico, N.A.
Hobbs, New Mexico

95-199
1122

Vendor No. 60949 Check Date 5/31/96

Check No. Amount of Check \$50.00

Fifty and 00/100**

Pay to the order of NMED Water Quality Management

STAR TOOL CO.

By

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

Invoice Date	Invoice Number	Description	Gross Amount	Discount	Net Amount
		Renewal - GW-76			
			Vendor Number	Check Date	Check Number
			60949	5/31/96	
					Check Amount
					\$50.00

DETACH BEFORE DEPOSITING CHECK

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN

DISCHARGE PLAN GW-76

RENEWAL

HOBBS SERVICE FACILITY
LEA COUNTY, NM

RECEIVED

JUN 1 0 1996

Environmental Bureau
Oil Conservation Division

STAR TOOL COMPANY
P O BOX 2008
HOBBS, NM 88241

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

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

Revised 8/8/95

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

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES

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

☐ New

☒ Renewal

☐ Modification

1. Type: Oilfield Fishing Tool Service Company
2. Operator: Star Tool Company
- Address: P.O. Box 2008 Hobbs, NM 88240
- Contact Person: David T. Taylor Phone: (505)397-4988
3. Location: N.E. /4 N.W. /4 Section 32 Township 18S Range 38E
Submit large scale topographic map showing exact location. Lea Co.
4. Attach the name 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 such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
14. CERTIFICATION

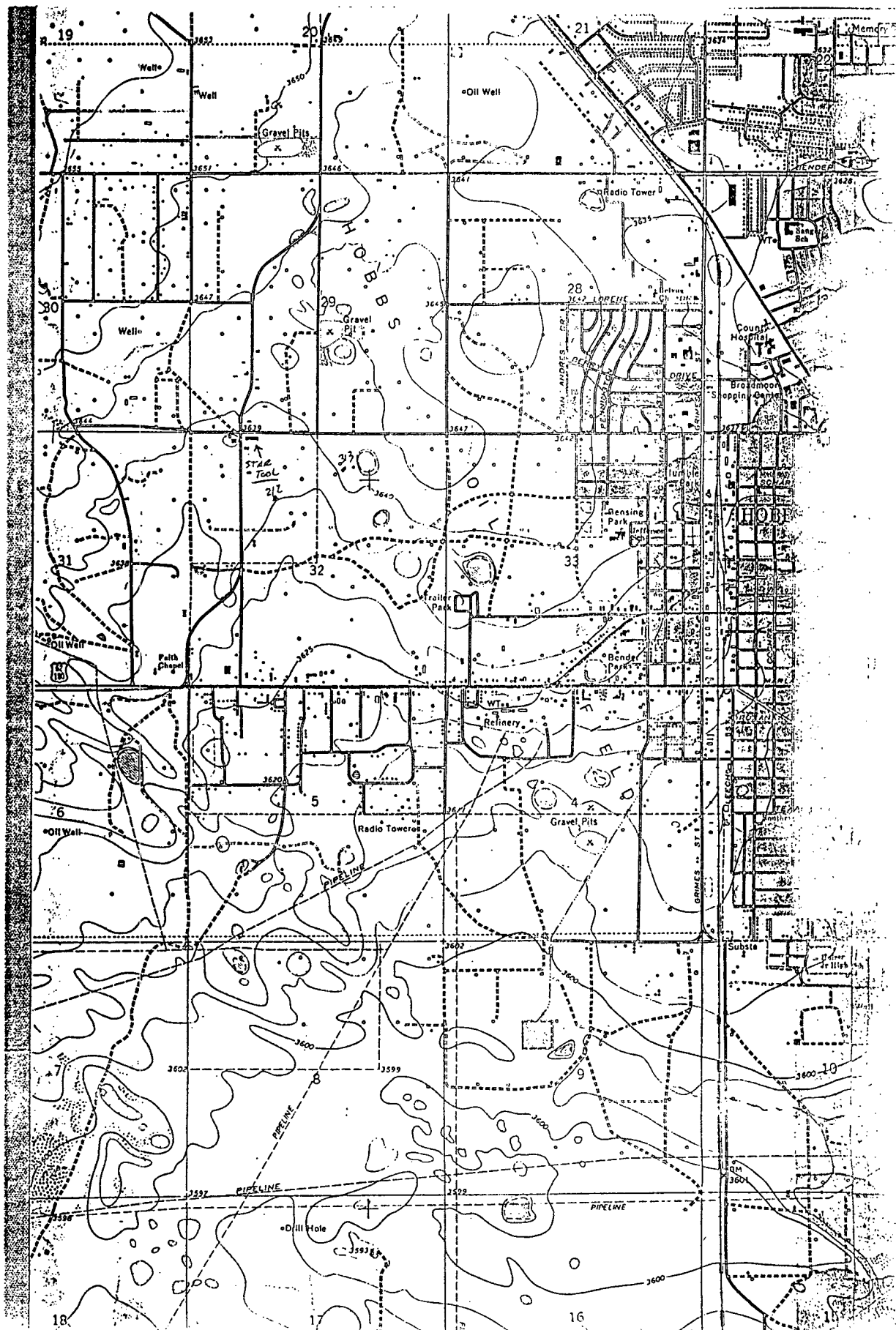
I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: John Brown

Title: Vice President

Signature: John Brown

Date: 5-31-96



STAR TOOL DISCHARGE PLAN

III. Location Of Discharge

We have submitted a topographic Map of the facility site plan.

The Legal Description:

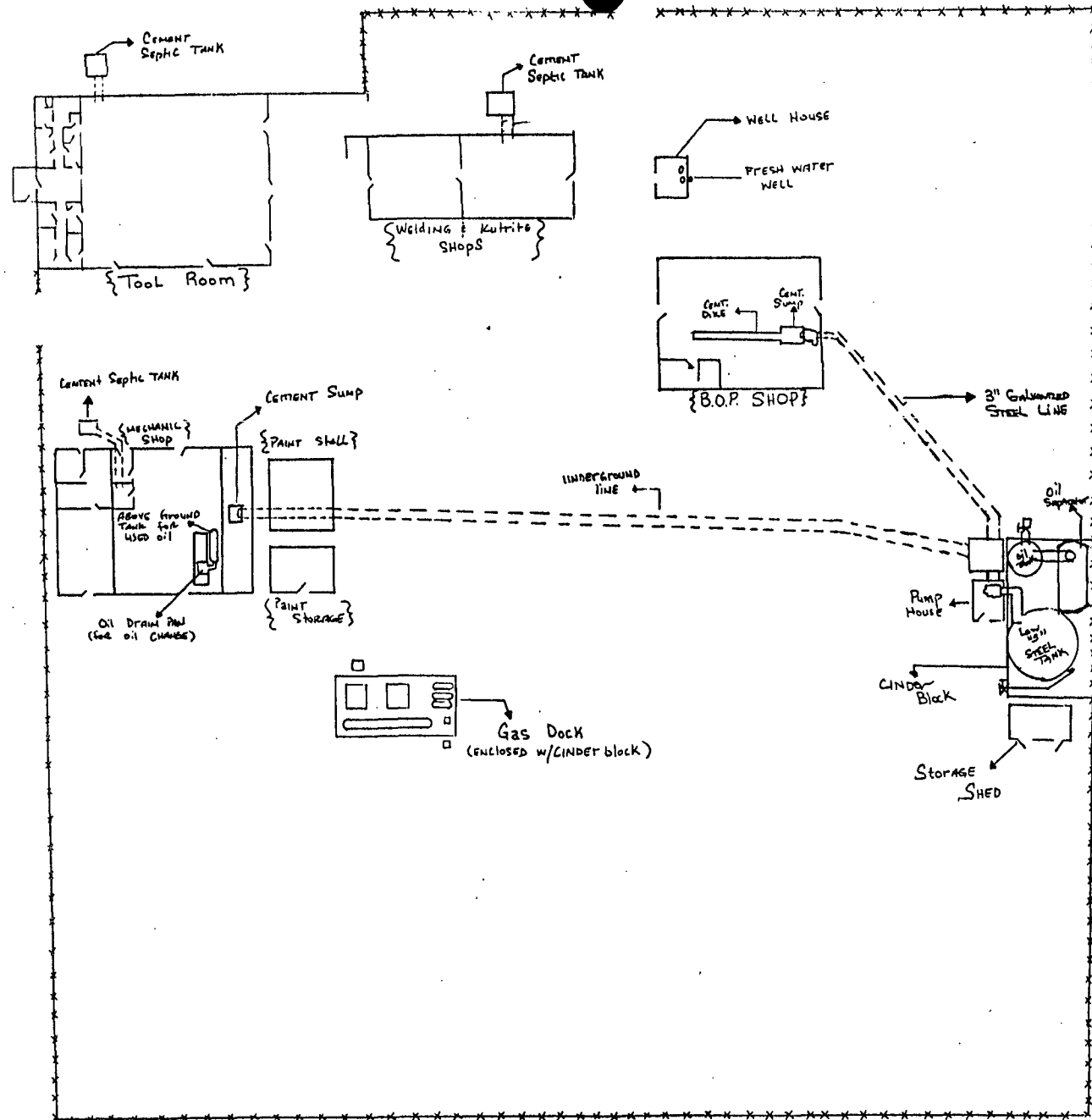
N.E/4 N.W/4 Section 32 Township 18S Range 38 E in Lea County, New Mexico.

IV. Landowners

Jimmy & Jean Dinsmore
P. O. Box 2008
Hobbs, N.M. 88240

V. Facility Description

Submitted in this plan.



PART V
Facility Description

Star Tunnel Hubler A.M.

DISCHARGE PLAN APPLICATION

Oilfield Service Facilities

Part VI. Form (Optional)

Materials Stored or Used at the Facility - For each category of material listed below provide information on the general composition of the material or specific information (including brand names if requested), whether a solid or liquid, type of container, estimated volume stored and location. Submit MSD information for chemicals as requested. Use of this form is optional, but the information requested must be provided.

Name	General Makeup or Specific Brand Name (if requested)	Solids(S) or Liquids(L)?	Type of Container (tank drum, etc.)	Estimated Volume Stored	Location (yard, shop, drum storage, etc.)
1. Drilling Fluids (include general makeup & types special additives (e.g. oil, chrome, etc.))		*None Stored at site.			
2. Brines - (KCl, NaCl, etc.)		*None stored at site.			
3. Acids/Caustics (Provide names & MSD sheets)	Muriatic Acids (L) Caustic Soda (S) Alpha Deliming (L)		Drum " "	55 Gallons 35 " 55 "	Drum Storage " "
4. Detergents/Soaps	F 24- Detergent (L) Alpha Car Shampoo (L) Waxy- wash car shampoo (L)		Gallon/plastic " "	05 Gallons --- ---	Parts Dept. " "
5. Solvents & Degreasers (Provide names & MSD sheets)	Alpha hand cleaner & Degreaser (L) B-140 Ind. degreaser(L) 432 Parts Washer Solvent (L)		Drum " "	55 Gallons --- 30 Gallons	Drum Storage " Mechanic Sho
6. Paraffin Treatments/ Emulsion Breakers (Provide names & MSD sheets)	Alpha Formula (S) 9863 Hand alkaline Cleaner Sodium Hydroxide		Drum	25 Gallons	Drum Storage
7. Biocides (Provide names & MSD sheets)		None Stored at site			
8. Others - (Include other liquids & solids, e.g. cement etc.)		None stored at site			

Copy Part 11
#1 (Part #3)

NOTICE JUDGEMENT BASED ON INDIRECT TEST DATA

MATERIAL SAFETY DATA SHEET

DATE: July 11, 1986 (ESSENTIALLY SIMILAR TO FORM OSHA-20)

I-PRODUCT INFORMATION			
MANUFACTURED FOR		EMERGENCY PHONE NUMBER	
ALPHA DYN CHEMICAL		(505) 392-7034	
ADDRESS		OTHER	
P.O. BOX F #3 BRAND DRIVE HOBBS, N.M. 88240			
FORMULA		TRADE NAME	
N/A		MURIATIC ACID	
II-HAZARDOUS INGREDIENTS			
	CAS #	% (wt)	TLV (ppm)
Hydrochloric Acid		31	
III-PHYSICAL DATA			
BOILING POINT (°F)	230°F	SPECIFIC GRAVITY (H ₂ O = 1)	1.18
VAPOR PRESSURE (psig)	94	% VOLATILE BY VOLUME	100
VAPOR DENSITY	127	EVAPORATION RATE (= 1)	
SOLUBILITY IN WATER	Complete	APPEARANCE AND ODOR	Water white, pungent
IV-FIRE & EXPLOSION HAZARD DATA			
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST		FLAMMABLE LIMITS Lower Upper	
EXTINGUISHING MEDIA			
None			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE & EXPLOSION HAZARDS			
Contact with metal results in highly flammable hydrogen			
V-REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	Contact with bases and chlorine bleaches

VI-HEALTH HAZARD DATA	
OSHA PERMISSIBLE EXPOSURE LIMIT	
Undetermined	
EFFECTS OF OVER EXPOSURE	
INHALATION	Harmful if inhaled
SKIN CONTACT / ABSORPTION	Can cause severe burns
INGESTION	Can be harmful or fatal
EYES	Can cause severe burns
EMERGENCY AND FIRST AID PROCEDURES	
EYES AND SKIN	Skin: Wash with soap and water Eyes: Flush with water for at least 15 minutes. Get medical attention.
INHALATION	Contains corrosive fumes which are harmful if inhaled. Move to fresh air.
INGESTION	Give amount of milk or water to drink. Get medical attention immediately.
VII-SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Flush area with plenty of water.	
WASTE DISPOSAL METHOD	
Normal Procedure	
VIII-SPECIAL PROTECTION INFORMATION	
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
EYE	Goggles
SKIN	Protective gloves
OTHER	
VENTILATION REQUIREMENTS	
IX-SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Keep closure up to prevent leakage	
OTHER PRECAUTIONS	

(Page 3)

Alpha-Dyn Chemical Co.

PHONE (305) 392-7024
P. O. BOX 8
HOBBES, NEW MEXICO 88240

I - IDENTIFICATION		
CHEMICAL NAME	CHEMICAL FORMULA	MOLECULAR WEIGHT
Sodium Hydroxide, Anhydrous	NaOH	40.00
TRADE NAME		
Caustic Soda, Anhydrous, Beads and Solid		
SYNONYMS	DOT IDENTIFICATION NO.	
Caustic, Beads, Bead Caustic, Soda Lye	1823	

II - PRODUCT AND COMPONENT DATA			
COMPONENT(S) CHEMICAL NAME	CAS (H) CHEMISTRY NO.	% (Approx)	AUGUST 11 V TWA
Sodium Hydroxide	1310-73-2	100	2 mg/m ³ Ceiling

III - PHYSICAL DATA	
APPEARANCE AND ODOR	SPECIFIC GRAVITY
White solid or bead; odorless	2.13 gm/cc
BOILING POINT	VAPOR DENSITY IN AIR (Air = 1)
N/A	N/A
VAPOR PRESSURE	% VOLATILE, BY VOLUME
N/A	0
EVAPORATION RATE	SOLUBILITY IN WATER
0	100%

IV - REACTIVITY DATA	
STABILITY	CONDITIONS TO AVOID
Stable	Protect against contact with moisture.
INCOMPATIBILITY (Materials to avoid)	
Reacts vigorously with water, acids, chlorinated hydrocarbons, acetaldehyde, acrolein, aluminum, chlorine trifluoride, hydroquinone, maleic anhydride and phosphorous pentoxide.	
HAZARDOUS DECOMPOSITION PRODUCTS	
Will not decompose	
HAZARDOUS POLYMERIZATION	
Will not occur	

VIII - STORAGE AND HANDLING PRECAUTIONS

Keep labeled and sealed containers in a dry area.

When dissolving in water, use warm water but not exceeding 100°F. Slowly add caustic to surface of water with constant stirring to avoid violent spattering. Full protective clothing should be worn. Large amount of heat will be evolved.

Contact of caustic soda cleaning solutions with food and beverage products (in enclosed vessels or spaces) may produce lethal concentrations of carbon monoxide gas.

IX - SPILL LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Cleanup personnel must wear proper protective equipment (refer to Section VII). Reclaim into closed containers for possible reuse or disposal. Can be flushed and dissolved with water if properly contained for collection and disposal. Avoid contamination of ground and surface waters. Do not flush to sewer.

WASTE DISPOSAL METHOD

Recovered solids or liquids may be sent to a licensed reclaimer or disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

X - TRANSPORTATION

DOT HAZARD CLASSIFICATION

Corrosive

PLACARD REQUIRED

Corrosive

LABEL REQUIRED

Corrosive. Label as required by OSHA Hazard Communication Rule, 29 CFR, Part 1910.1200 (f), and any applicable state and local regulations.

For Further Information

ALPHA-DYN CHEMICAL CO.

First in Top Quality Products

P.O. Box F • HOBBS, NEW MEXICO 88240

DATE OF PREPARATION: October 1, 1985

CHRONIC TOXICITY

No known chronic effects.

Carcinogenicity: Sodium hydroxide has not been studied relative to carcinogenicity. Sodium hydroxide is not listed on the IARC, NTP or OSHA carcinogen list.

Reproductive Toxicity: Sodium hydroxide has not been studied relative to reproductive effects.

VII - PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION

Above 2 mg/m^3 use approved high-efficiency particulate filter with full facepiece or self-contained breathing apparatus.

VENTILATION

As necessary to maintain concentration in air below 2 mg/m^3 .

SKIN PROTECTION

Wear neoprene, PVC, or rubber gloves; PVC rain suit; rubber boots with pant legs over boots.

EYE PROTECTION

Chemical goggles which are dust and splashproof. When mixing solutions, wear face shield or hood to protect face from splashing.

HYGIENE

Avoid contact with skin and avoid breathing dust. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using bathroom. Any protective clothing, clothing or shoes which become contaminated with caustic should be removed immediately and thoroughly laundered before reuse.

OTHER CONTROL MEASURES

Safety shower and eyewash station must be located in immediate work area. Any non-imperious clothing or shoes which become contaminated with caustic should be removed immediately. To determine the exposure level(s), monitoring should be performed regularly.

V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)

N/A

FLAMMABLE LIMITS IN AIR

N/A

EXTINGUISHING AGENTS

N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS

In the presence of moisture, will react with some metals, e.g. aluminum, tin, and zinc, to form flammable hydrogen gas.

VI - TOXICITY AND FIRST AID

EXPOSURE LIMITS (When exposure to this product and other chemicals is concurrent, the TLV must be defined in the workplace.)

ACGIH: 2 mg/m³ Ceiling

OSHA: 2 mg/m³ (8 hr) TWA

Effects described in this section are believed not to occur if exposures are maintained at or below appropriate TLVs.

Because of the wide variation in individual susceptibility, TLVs may not be applicable to all persons and those with medical conditions listed below.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No known medical conditions aggravated by exposure.

ACUTE TOXICITY

Primary route(s) of exposure:

☒ Inhalation

☒ Skin Absorption

☐ Ingestion

Inhalation: Inhalation of dust or mist can cause mild irritation at 2 mg/m³. More severe burns and tissue damage at the upper respiratory tract, can occur at higher concentrations. Pneumonitis can result from severe exposures.

Skin: Major potential hazard - Heat or liquid contact with the skin can cause severe burns with deep ulcerations. Contact with dust or mist can cause multiple burns with temporary loss of hair at burn site. Solutions of 4% may not cause irritation and burning for several hours, while 25 to 50% solutions cause these effects in less than 3 minutes.

Eyes: Major potential hazard - Beads in the eye can cause severe destruction and blindness. These effects can occur rapidly affecting all parts of the eye. Mist or dust can cause irritation with high concentrations causing destructive burns.

Ingestion: Ingestion of sodium hydroxide can cause severe burning and pain in lips, mouth, tongue, throat and stomach. Severe scarring of the throat can occur after swallowing. Death can result from ingestion.

FIRST AID

Inhalation: Move person to fresh air. If breathing stops, administer artificial respiration. Get medical attention immediately.

Skin: Remove contaminated clothing and immediately wash skin thoroughly for a minimum of 15 minutes under safety shower. Get medical attention immediately.

Eyes: Wash eyes immediately with large amounts of water (preferably eyewash fountain), lifting the upper and lower eyelids occasionally. Continue washing for a minimum of 15 minutes. Get medical attention immediately.

Ingestion: If person is conscious, give large quantities of water to dilute caustic. Do not induce vomiting. Get medical attention immediately.

NOTICE JUDGEMENT BASED ON INDIRECT TEST DATA

MATERIAL SAFETY DATA SHEET

(ESSENTIALLY SIMILAR TO FORM OSHA-20)

DATE:

(Page 3)

I-PRODUCT INFORMATION			
MANUFACTURED FOR		EMERGENCY PHONE NUMBER	
ALPHA DYN CHEMICAL		(505) 392-7034	
ADDRESS		OTHER	
P.O. BOX F #3 BRAND DRIVE HOBBS, N.M. 88240			
FORMULA		TRADE NAME	
N/A		ALPHA DELIMING LIQUID	
II-HAZARDOUS INGREDIENTS			
	CAS #	% (wt)	TLV (ppm)
PHOSPHORIC ACID	7664-38-2		UND.
III-PHYSICAL DATA			
BOILING POINT (°F)		SPECIFIC GRAVITY (H ₂ O = 1)	
UNDETERMINED		1.13	
VAPOR PRESSURE (psig)		% VOLATILE BY VOLUME	
UNDETERMINED		UNDETERMINED	
VAPOR DENSITY		EVAPORATION RATE (= 1)	
UNDETERMINED		UND.	
SOLUBILITY IN WATER		APPEARANCE AND ODOR	
MISCIBLE		GREEN LIQUID, SLIGHTLY S.G.	
IV-FIRE & EXPLOSION HAZARD DATA			
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST		FLAMMABLE LIMITS	
UNDETERMINED		Lower Upper	
EXTINGUISHING MEDIA		UNDETERMINED	
NORMAL			
SPECIAL FIRE FIGHTING PROCEDURES			
NONE			
UNUSUAL FIRE & EXPLOSION HAZARDS			
NON-FLAMMABLE			
V-REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
			AVOID CHLORINE CONTAINING COMPOUNDS
INCOMPATIBILITY (Materials to avoid)			
SEE ABOVE			
HAZARDOUS DECOMPOSITION PRODUCTS			
NONE			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	
			CONTACT WITH CHLORINE CONTAINING COMPOUNDS
			AS IT WILL PRODUCE CHLORINE GAS

VI-HEALTH HAZARD DATA	
OSHA PERMISSIBLE EXPOSURE LIMIT	
UNDETERMINED, TLV CONSIDERED TO BE HIGH	
EFFECTS OF OVER EXPOSURE	
INHALATION	
SKIN CONTACT / ABSORPTION	IRRITATING TO SKIN
INGESTION	HARMFUL OR FATAL IF SWALLOWED
EYES	IRRITATING TO EYES
EMERGENCY AND FIRST AID PROCEDURES	
EYES AND SKIN	SKIN: WASH WITH SOAP & WATER. EYES: FLOOD WITH WATER FOR AT LEAST 15 MINUTES
INHALATION	
INGESTION	GIVE LARGE AMOUNTS OF MILK OR WATER TO DRINK. GET MEDICAL ATTENTION
VII-SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
NORMAL CLEAN UP PROCEDURE USING BAKING SODA AS NEUTRALIZER	
WASTE DISPOSAL METHOD	
NORMAL LOCAL REGULATIONS	
VIII-SPECIAL PROTECTION INFORMATION	
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
NONE REQUIRED	
EYE	GOGGLES IF SPLASHING OCCURS
SKIN	PROTECTIVE GLOVES, AVOID SKIN CONTACT
OTHER	NONE
VENTILATION REQUIREMENTS	
LOCAL EXHAUST	
IX-SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
KEEP CLOSURE UP TO PREVENT LEAKAGE	
OTHER PRECAUTIONS	
AVOID CONTACT WITH CHLORINE CONTAINING COMPOUNDS AS IT WILL PRODUCE CHLORINE GAS.	

Material Safety Data Sheet

F-24 Detergent Solution
Quick Identifier
Common Name: (used on label and title)

May be used to comply with OSHA's Hazard Communication Standard,
1910.1201. Standard must be consulted for specific requirements.

SECTION 1 -

Manufacturer's Name
American Sales and Service
Address
5675 W. 42nd Street
City, State, and ZIP
Odessa, Texas 79764

Emergency Telephone No. **915-38103740**

Other Information
(Safe)

Signature of Person
Responsible for Preparation (Type/print)

Date
Prepared

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% Optional	CA* (M)
--	----------	-----------	-----------------------	------------	---------

ALKYL PHENOL ETHOXYLATE

SODIUM ETHYLENEDIAMINE TETRACETIC ACID (SODIUM EDTA)

SODIUM METASILICATE

ETHYLENE GLYCOL BUTYL ETHER (EGBE)

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	Specific Gravity (H ₂ O = 1)	Vapor Pressure (mm Hg)
Same as water	1	Same as water

Solubility in Water	Reactivity in Water
Completely miscible	Stable

Appearance and Odor	Melting Point
Light colored liquid	Same as water

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	Method Used	Flammable Limits in Air % by Volume	LEL Lower	UEL Upper
N/A	C	N/A	N/A	N/A

Auto-ignition Temperature	Extinguisher Media
N/A	N/A

Special Fire Fighting Procedures
N/A

Unusual Fire and Explosion Hazards
Non-flammable

SECTION 1 - PHYSICAL HAZARDS (REACTIVITY DATA)Stability Stable ☒ to Avoid

Incompatibility Materials to Avoid

Avoid contact with materials which react violently to water or alkali.

Hazardous Decomposition Products

none known

Hazardous May Occur ☐ Conditions
Polymerization Will Not Occur ☒ to Avoid**SECTION 2 - HEALTH HAZARDS**

1. Acute

N/A

2. Chronic

N/A

Signs and Symptoms of Exposure

Eye and skin irritation.

Medical Conditions Generally Aggravated by Exposure

none known

Chemical Listed as Carcinogen or Potential Carcinogen

National Toxicology Program Yes ☐ No ☒I.A.R.C. Monographs Yes ☐ No ☒OSHA Yes ☐ No ☒

Emergency and First Aid Procedures

Wash eyes and skin immediately. If swallowed, do not induce vomiting. Give milk or water, seek medical attention.

ROUTES OF ENTRY

1. Inhalation

2. Eyes

Wash one minute, holding lids apart.

3. Skin

Wash with water

4. Ingestion

Give large quantities of milk or water do not induce vomiting.

SECTION 3 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage

Do not store in containers made of aluminum, tin, zinc, alloys of these metals. Wear rubber gloves and eye protection.

Other Precautions

Do not freeze. Keep out of the reach of children.

Steps to be Taken in Case Material is Spilled or Spilled

Wash area thoroughly with water.

Waste Disposal Methods (Consult Federal, State, and local regulations)

Small spills may be flushed to sewer with plenty of water, if allowed by legal requirements.

SECTION 4 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection

Respiratory Type

none

Ventilation

Local Exhaust

Mechanical (General)

Special

Other

Protective Clothing

Rubber, PVC, or other impervious material

Eye Protection

Splash goggles or face shield

Other Protective Clothing or Equipment

none

Work Hygiene Practices

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, write "N/A".

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(Part 83)

NOTICE JUDGEMENT BASED ON INDIRECT TEST DATA

MATERIAL SAFETY DATA SHEET

DATE:

(ESSENTIALLY SIMILAR TO FORM OSHA-20)

I-PRODUCT INFORMATION			
MANUFACTURED FOR ALPHA DYN CHEMICAL		EMERGENCY PHONE NUMBER (505) 392-7034	
ADDRESS P.O. BOX F #3 BRAND DRIVE HOBBS, N.M. 88240			
FORMULA N/A		TRADE NAME ALPHA H/D CLEANER DEGREASER	
II-HAZARDOUS INGREDIENTS			
	CAS #	% (wt)	TLV (ppm)
III-PHYSICAL DATA			
BOILING POINT (°F)	212°F	SPECIFIC GRAVITY (H ₂ O = 1)	1.01
VAPOR PRESSURE (psig)	Undetermined	% VOLATILE BY VOLUME	96
VAPOR DENSITY	Undetermined	EVAPORATION RATE (= 1)	Und.
SOLUBILITY IN WATER	Miscible	APPEARANCE AND ODOR	Blue liquid with glyco ether solvent odor.
IV-FIRE & EXPLOSION HAZARD DATA			
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST greater than 212°F		FLAMMABLE LIMITS Lower Upper	
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE & EXPLOSION HAZARDS Non-flammable			
V-REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

VI-HEALTH HAZARD DATA	
OSHA PERMISSIBLE EXPOSURE LIMIT	Undetermined
EFFECTS OF OVER EXPOSURE	
INHALATION	Respiratory irritation is possible if large amount were volatilized in and air tight atmosphere.
SKIN CONTACT / ABSORPTION	Mildly alkaline, could irritate skin
INGESTION	
EYES	Mildly alkaline, could irritate skin.
EMERGENCY AND FIRST AID PROCEDURES	
EYES AND SKIN	Flush with water
INHALATION	If toxicity is suspected, expose individual to fresh air.
INGESTION	
VII-SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Dilute with water and clean up	
WASTE DISPOSAL METHOD	
VIII-SPECIAL PROTECTION INFORMATION	
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
EYE	goggles if splashing or sensitivity is known
SKIN	gloves if splashing or sensitivity is known
OTHER	
VENTILATION REQUIREMENTS	
Local exhaust acceptable	
IX-SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Normal handling of liquids	
OTHER PRECAUTIONS	

(PAGES)

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-11387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME

BLAINE CHEMICAL AND IND. SUPPLY

ADDRESS (Number, Street, City, State, and ZIP Code)

1005 NORTH COLEMAN HOBBS, N.M. 88240

EMERGENCY TELEPHONE NO.

505-393-3650

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY

CLEANER DEGREASER ALKALINE LIQUID

TRADE NAME AND SYNONYMS

B-140 IND DEGREASER
PROPRIETARY

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Unit)	ALLOYS AND METALLIC COATINGS	%	TLV (Unit)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS BUTYL CELLUSOLVE	5	50	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Unit)
NONE					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	200	SPECIFIC GRAVITY (H ₂ O=1)	1.040
VAPOR PRESSURE (mm Hg.)	18	PERCENT VOLATILE BY VOLUME (%)	85.00
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (water = 1)	1.00
SOLUBILITY IN WATER	100%		
APPEARANCE AND ODOR CLEAR PURPLE NON VISC. LIQUID WITH SASSFRAS PERFUME			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NONE	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	NONE REQUIRED			
SPECIAL FIRE FIGHTING PROCEDURES	NONE REQUIRED			
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

NOT ESTABLISHED

EFFECTS OF OVEREXPOSURE

INHALATION MAY CAUSE IRRITATION TO MUCOUS MEMBRANES. EYE OR SKIN CONTACT MAY RESULT IN MILD IRRITATION. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION : DO NOT INDUCE VOMITING. DRINK LARGE AMOUNTS OF WATER AND FOLLOW WITH A SOLUTION OF WATER AND VINEGAR. EYES OR SKIN: FLUSH WITH CLEAR WATER FOR

15 MINUTES. INHALATION: REMOVE TO FRESH AIR SUPPLY. SEEK MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

YES

INCOMPATIBILITY (Materials to avoid)

DO NOT MIX WITH STRONG ACIDS AS NEUTRALIZATION WILL OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS

NONE

MAY OCCUR

CONDITIONS TO AVOID

HAZARDOUS
POLYMERIZATION

WILL NOT OCCUR

NO

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

CONTAIN SPILL AND DILUTE WITH CLEAR WATER. WASH AREAS EFFECTED WITH CLEAR WATER AND RINSE.

WASTE DISPOSAL METHOD

DILUTE SPILL WITH CLEAR WATER THEN NEUTRALIZE WITH WATER AND SODIUM BICARBONATE FLUSH TO STANDARD SEWER. RINSE EMPTY CONTAINER BEFORE DISCARDING IN AN AUTHORIZED LANDFILL SITE.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

NONE REQUIRED

VENTILATION

LOCAL EXHAUST

ADEQUATE

SPECIAL

MECHANICAL (General)

ADEQUATE

OTHER

PROTECTIVE GLOVES

RUBBER

EYE PROTECTION

GOGGLES OR FACE SHIELD

OTHER PROTECTIVE EQUIPMENT

APRON AND BOOTS IF DESIRED.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP AWAY FROM CHILDREN. AVOID STORAGE IN EXPOSED AREAS TO EXTREMES IN TEMPERATURE. KEEP CONTAINER SEALED WHEN NOT IN USE. STORE PRODUCT IN ORIGINAL SHIPPING CONTAINER.

OTHER PRECAUTIONS

RINSE CONTAINER BEFORE DISCARDING.

VI-HEALTH HAZARD DATA	
OSHA PERMISSIBLE EXPOSURE LIMIT	
Not established	
EFFECTS OF OVER EXPOSURE	
INHALATION	Nausea if inhaled for extended periods of time.
SKIN CONTACT / ABSORPTION	Drying and defatting of skin.
INGESTION	Gastrointestinal irritation.
EYES	Eye irritation.
EMERGENCY AND FIRST AID PROCEDURES	
EYES AND SKIN	Flush eyes with clear water for 15 minutes. Wash skin with soap and water.
INHALATION	Remove to fresh air supply.
INGESTION	Do not induce vomiting. Seek medical attention.
VII-SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Contain spill and absorb with clay or sawdust. Dispose of this waste in authorized landfill site. Wash effected surfaces with detergent and rinse with clear water.	
WASTE DISPOSAL METHOD	
Dispose of waste in a manner cosistant with state and local regulations.	
VIII-SPECIAL PROTECTION INFORMATION	
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
EYE	goggles
SKIN	Rubber gloves if desired
OTHER	Safety lid on tank or vat containers
VENTILATION REQUIREMENTS	
Adequate ventilation	
IX-SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Keep out of the reach of children. Keep container sealed when not in use. Do not use or store near heat or open flame.	
OTHER PRECAUTIONS	
Read product label carefully before using.	

(Page #4)

NOTICE JUDGEMENT BASED ON INDIRECT TEST DATA

MATERIAL SAFETY DATA SHEET

DATE: MAY 20, 1986 (ESSENTIALLY SIMILAR TO FORM OSHA-20)

I-PRODUCT INFORMATION			
MANUFACTURED FOR ALPHA DYN CHEMICAL		EMERGENCY PHONE NUMBER (505) 392-7034	
ADDRESS P.O. BOX F #3 BRAND DRIVE HOBBS, N.M. 88240		OTHER	
FORMULA N/A		TRADE NAME ALPHA FORMULA 9863 H/D ALKALINE CLEANER	
II-HAZARDOUS INGREDIENTS			
	CAS #	% (wt)	TLV (ppm)
SODIUM HYDROXIDE	1310-73-2		UND.
III-PHYSICAL DATA			
BOILING POINT (°F) NONE		SPECIFIC GRAVITY (H ₂ O = 1) .992	
VAPOR PRESSURE (psig) UNDETERMINED		% VOLATILE BY VOLUME UNDETERMINED	
VAPOR DENSITY UNDETERMINED		EVAPORATION RATE (= 1) UND.	
SOLUBILITY IN WATER SOLUBLE		APPEARANCE AND ODOR OFF WHITE, CHARACTERIST	
IV-FIRE & EXPLOSION HAZARD DATA			
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST NONE		FLAMMABLE LIMITS UNDETERMINED	
EXTINGUISHING MEDIA NORMAL			
SPECIAL FIRE FIGHTING PROCEDURES NONE			
UNUSUAL FIRE & EXPLOSION HAZARDS NON-FLAMMABLE			
V-REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	XX	
INCOMPATIBILITY (Materials to avoid) NONE			
HAZARDOUS DECOMPOSITION PRODUCTS NONE			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	XX	

VI-HEALTH HAZARD DATA	
OSHA PERMISSIBLE EXPOSURE LIMIT UNDETERMINED	
EFFECTS OF OVER EXPOSURE	
INHALATION BREATHING DUST MAY CAUSE IRRITATION	
SKIN CONTACT / ABSORPTION SKIN-CORROSIVE	
INGESTION HARMFUL IF SWALLOWED	
EYES EYES CORROSIVE	
EMERGENCY AND FIRST AID PROCEDURES	
EYES AND SKIN SKIN: WASH THOROUGHLY WITH WATER. EYE: WASH WITH WATER FOR AT LEAST 15 MINUTES	
INHALATION MOVE TO FRESH AIR IMMEDIATELY	
INGESTION GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.	
VII-SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED SWEEP FLOOR, THEN FLUSH WITH WATER	
WASTE DISPOSAL METHOD NORMAL LOCAL REGULATIONS	
VIII-SPECIAL PROTECTION INFORMATION	
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
EYE	GOGGLES IF SPLASHING OCCURS
SKIN	YES
OTHER	NONE
VENTILATION REQUIREMENTS VENTILATION IS RECOMMENDED.	
IX-SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING STORE IN COOL, DRY PLACE	
OTHER PRECAUTIONS AVOID BREATHING DUST	

DISCHARGE PLAN APPLICATION

Oilfield Service Facilities

Part VII. Form (Optional)

Sources and Quantities of Effluent and Waste Solids Generated at the Facility - For each source include types of effluents (e.g. salt water, hydrocarbons, sewage, etc.), estimated quantities in barrels or gallons per month, and types and volumes of major additives (e.g. acids, biocides, detergents, degreasers, etc.). Use of this form is optional, but the information requested must be provided.

<i>Waste Type</i>	<i>General Composition and Source (solvents from small parts cleaning, oil filters from trucks, etc.)</i>	<i>Volume Per Month (bbl or gal)</i>	<i>Major Additives (e.g. degreaser fluids from truck washing, soap in steam cleaners)</i>
1. <i>Truck Wastes</i> (Describe types of original contents trucked [e.g. brine, produced water, drilling fluids, oil wastes, etc])	N/A		
2. <i>Truck, Tank & Drum Washing</i>	(Truck Washing) Done with car shampoo which contains synthetic detergents about 4 gallons per month. (Tank / Reverse Pits) Are sprayed with degreaser (biodegradeable). MSDS sheets are provided. About 10 gallons per month. No drum washing done.		
3. <i>Steam Cleaning of Parts, Equipment, Tanks</i>	Oilfield tools are sprayed with biodegradeable degreaser and steamed off. About 25 gallons per month.		
4. <i>Solvents/Degreaser Use</i>	(Cleaning Solvent) used in mechanic shop to clean off engine parts. About 30 gallons used every 6 months. (Degreaser) used to clean off all our oilfield equipment. About 35 - 40 gallons used every month.		
5. <i>Spent Acids, Caustics, or Completion Fluids</i> (Describe)	(Acids) used for acidizing our steamers. About once every 2 months. 4 - 6 gallons used every month. (No completion fluids at site)		

<i>Waste Type</i>	<i>General Composition and Source (solvents from small parts cleaning, oil filters from trucks, etc.)</i>	<i>Volume Per Month (bbl or gal)</i>	<i>Major Additives (e.g. degreaser fluids from truck washing, soap in steam cleaners)</i>
6. <i>Waste Slop Oil</i>	Collected - consists of oil with some sludge. About 5 - 10 gallons per month. Collected by waste oil recovery companies		
7. <i>Waste Lubrication and Motor Oils</i>	(Motor Oils) are drained into collection tank and hauled off by waste oil collection companies. About 100 gallons collected per month.		
8. <i>Oil Filters</i>	Are drained to remove excess oil and disposed of off site.		
9. <i>Solids and Sludges from Tanks (Describe types of materials [e.g. crude oil tank bottoms, sand, etc.])</i>	(Sludges) from tools (paraffin & oil) are disposed of at disposal sites approved by E.P.A. (not ours). About 25 gallons per month.		
10. <i>Painting Wastes</i>	Paint is left to dry out and is hauled off to landfill.		
11. <i>Sewage (Indicate if other wastes mixed with sewage; if no commingling, domestic sewage under jurisdiction of the NMEID)</i>	No other wastes mixed with sewage. Domestic and septic system hauled off as needed.		
12. <i>Other Waste Liquids (Describe in detail)</i>	N/A		
13. <i>Other Waste Solids (Cement, construction materials, used drums)</i>	Used drums are returned to the suppliers.		

DISCHARGE PLAN APPLICATION

Oilfield Service Facilities

Part VIII. Form (Optional)

Summary Description of Existing Liquid and Solids Waste Collection and Disposal - For each waste type listed in Part VII, provide summary information about onsite collection and disposal systems. Information on basic construction features, specific descriptions, and wastewater schematics should be provided as required in the Guidelines. The use of this form is optional, but the summary information requested must be provided.

Waste Type	Tank(T)/ Drum(S)	Floor Drain/(F) Sump(S)	Pis- Lined(L) or Unlined(U)	Onsite Injection Well	Leach Field	Offsite Disposal
1. Truck Wastes	(None)					
2. Truck, Tank and Drum Washing		Sump, off-site, disposal, & pits lined				
3. Stream Cleaning of Parts, Equipment, Tanks		Sump, pits lined, off-site disposal				
4. Solvent/Degreaser Use		Solvent - drums - off-site disposal Degreaser - sump - pits lined - off-site disposal				
5. Spent Acids, Caustics, or Completion Fluids		Spent acids (drums), - off-site disposal				
6. Waste Slop Oil		Sump, tank, - offsite disposal				

<i>Waste Type</i>	<i>Tank(T)/ Drum(S)</i>	<i>Floor Drain/(F) Sump(S)</i>	<i>Pits- Lined(L) or Unlined(U)</i>	<i>Onsite Injection Well</i>	<i>Leach Field</i>	<i>Offsite Disposal</i>
7. <i>Waste Lubrication and Motor Oils</i>	We store in steel tank and have waste motor oil hauled off by collection companies.					
8. <i>Oil Filters</i>	off-site disposal					
9. <i>Solids and Sludges from Tanks</i>	off-site disposal					
10. <i>Painting Wastes</i>	off-site disposal					
11. <i>Sewage</i>	sump, leach field, off-site disposal					
12. <i>Other Waste Liquids</i>	None					
13. <i>Other Waste Solids</i>	Drums					

ROUTINE INSPECTION PLAN

- X. Routine Inspection will be made three times a week. The time and date will be recorded along with the persons name doing the inspection. All vales, filters, and fluid lines will be changed as needed. All fluids in our tanks and in slop oil tanks will be kept on file for a period of five years. In the event of a leak, (O.C.D. Rule # 116). Notification of Fire, Breaks, Spill, and Blowouts enforced; and respected offices notified.

Spill / Leak Prevention Plan

XI.

A. The system we are currently using has all tanks and steel lines above ground in the enclosed cinder block area. This enable us to detect leaks easily . the enclosed area holds 1 1/2 the capacity of both tanks. This will keep containment of spilled liquids in case of a leak.

In the event of a spill, O.C.D. RULE #16 will come into effect.

B. Since all connections will be above ground, detections will be done visually. The above ground tanks will be done in the same manner. Inspection of the system will be done three times a week. All times and dates will be recorded along with inspection reports.

Form WR-33

STATE ENGINEER OFFICE

FIELD ENGR. LOG

WELL RECORD

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

Section 1

0				

(A) Owner of well Star Tool CompanyStreet and Number P. O. Box 2008City Mohha State New Mexico

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

N. 1/4 NW 1/4 NW 1/4 of Section 32 Twp. 10S Rge. 20E(B) Drilling Contractor Abbott Brothers License No. 47468Street and Number P. O. Box 038City Mohha State New MexicoDrilling was commenced March 2, 1966Drilling was completed March 3, 1966

(Plot of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 125State whether well is shallow or artesian shallow Depth to water upon completion 45

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	44	81	37	water sand
2	81	125	44	coarse water sand
3				
4				
5				

Section 3

RECORD OF CASING

Dia. in.	Pounds ft.	Threads in.	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7	24	10	0	125	125	open	44	125

Section 4

RECORD OF MUDDING AND CEMENTING

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

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____

Street and Number _____ City _____ State _____

Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____

Plugging method used _____ Date Plugged _____ 19 _____

Plugging approved by: _____

Cement Plugs were placed as follows:

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

FOR USE OF STATE ENGINEER ONLY

Date Received _____

APR 14 AM 11:25 1966

File No. L-5874 Use Cement Location No. 18.38.52.110

Section 6

LOG OF WELL

[illegible]

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

Murrell Abbott
Well Driller



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

P 594 835 285

July 24, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-594-835-285

Mr. John Brown
Vice President
Star Tool Company
P.O. Box 2008
Hobbs, New Mexico 88240

RE: Discharge Plan Renewal GW-076
Hobbs Facility
Lea County, New Mexico

Dear Mr. Brown:

The renewal of discharge plan GW-076 for the Star Tool Hobbs facility located in NE/4 NW/4, Section 32, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. The discharge plan renewal consists of the approval from OCD dated October 2, 1991, the renewal application from Star Tool dated May 31, 1996, and this renewal letter with conditions of approval from OCD dated July 24, 1996 Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within five working days of receipt of this letter.

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

Please be advised that all exposed pits, including lined pits and open top tanks (tanks exceeding 16 feet in diameter), shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided. *GW076.REN*
Do not use for International Mail (See reverse)

Sent to <i>Star Tool - Mr. John Brown.</i>	
Street & Number	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Mr. John Brown
GW-076 Approval
Star Tool
July 24, 1996
Page 2

Please note that Section 3104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C Star Tool is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

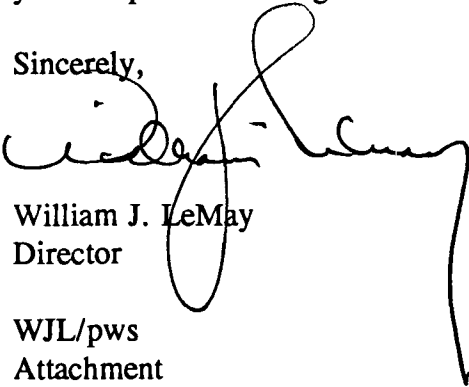
Pursuant to Section 3109.G.4, this plan is for a period of five (5) years. **This approval will expire October 2, 2001**, and an application for renewal should be submitted in ample time before that date. It should be noted that all discharge plan facilities will be required to submit plans for, or the results of, an underground drainage testing program as a requirement for discharge plan renewal.

The discharge plan renewal for the Star Tool Hobbs Facility GW-076 is subject to the WQCC Regulation 3114 discharge plan fee. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of fifty dollars (\$50) plus the flat fee of six-hundred and ninety dollars (\$690) for the renewal of Service Company discharge plans.

The \$50 filing fee has been received by the OCD. The flat fee for an approved discharge plan has not been received by the OCD. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,



William J. LeMay
Director

WJL/pws
Attachment

xc: Mr. Wayne Price

Mr. John Brown
GW-076 Approval
Star Tool
July 24, 1996
Page 3

ATTACHMENT TO DISCHARGE PLAN RENEWAL GW-076
Star Tool - Hobbs Facility
DISCHARGE PLAN REQUIREMENTS
(July 24, 1996)

1. **Payment of Discharge Plan Fees:** The \$690 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.

2. **Star Tool Commitments:** Star Tool will abide by the following commitments and requirements made in the following: The approval letter from OCD dated October 2, 1991, the renewal application from Star Tool dated May 31, 1996, and this renewal letter with conditions of approval from OCD dated July 24, 1996.

3. **Drum Storage:** All drums containing materials other than fresh water must be stored on an impermeable pad and curb type containment. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets should also be stored on an impermeable pad and curb type containment.

All drums and chemical containers shall be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.

4. **Process Areas:** All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

5. **Above Ground Tanks:** All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad.

6. **Above Ground Saddle Tanks:** Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

7. **Tank Labeling:** All tanks should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

Mr. John Brown
GW-076 Approval
Star Tool
July 24, 1996
Page 4

8. **Below Grade Tanks/Sumps:** All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks that do not have secondary containment and leak detection must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks /or sumps.

9. **Underground Process/Wastewater Lines:** All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years there after. Companies may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing so that an OCD representative may witness the testing.

10. **Class V Wells:** Leach fields and other wastewater disposal systems at OCD regulated facilities which inject fluid other than sewage below the surface are considered Class V injection wells under the EPA UIC program. All class V wells will be closed unless, it can be demonstrated that protectable groundwater will not be impacted in the reasonably foreseeable future. Class V wells must be closed through the Santa Fe Office. The OCD allows industry to submit closure plans which are protective of human health, environment and groundwater as defined by the WQCC, and are cost effective.

11. **Housekeeping:** All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.

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

Any waste that is Hazardous by Characteristics, Constituents, or Listing will have to be reported to the New Mexico Environment Department, Hazardous and Radioactive Materials Bureau, telephone at (505)-827-1558, for proper disposal/treatment guidance for Hazardous Waste.

Any soils that are bioremediated onsite will utilize a method that has been proposed in writing to the Santa Fe OCD office, and approved of by the OCD Santa Fe office.

12. **Spill Reporting:** All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the Hobbs OCD District Office at (505)-393-6161.

Mr. John Brown
GW-076 Approval
Star Tool
July 24, 1996
Page 5

13. **Transfer of Discharge Plan:** The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

14. **New Mexico Oil Conservation Division Inspections:** Additional requirements may be placed on the facility based upon results from New Mexico Oil Conservation Division inspections.

15. **Closure:** The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

16. **Conditions accepted by:**

Company Representative

Date

Title



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

April 2, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. 2-765-963-130

Mr. David D. Taylor, President
Star Tool Company
P.O. Box 2008
Hobbs, NM 88240

**RE: Discharge Plan GW-076 Renewal
Hobbs Service Facility
Lea County, New Mexico**

Dear Mr. Taylor:

On October 2, 1996, the groundwater discharge plan, GW-076, for the Star Tool Company Hobbs Service Facility located in the NE/4 NW/4, Section 32, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, will expire. The plan was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years.

If the facility continues to have potential or actual effluent or leachate discharges and you wish to continue operation, Star Tool Company must renew the discharge plan. If Star Tool Company submits an application for renewal at least 120 days before the discharge plan expires (on or before June 2, 1996), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Star Tool Company has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the Hobbs Service Facility is subject to the WQCC Regulations 3114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50 dollars and flat fee of \$690 for oil field service companies renewing discharge plans.

The \$50 dollar filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

Mr. David Taylor
Star Tool Company
April 2, 1996
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 the discharge plan renewal request.**

If Star Tool Company no longer has any actual or potential discharges a discharge plan is not needed, please notify this office. If Star Tool Company has any questions regarding this matter, please do not hesitate to contact Mr. Patricio W. Sanchez at (505) 827-7156.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

RCA/pws

xc: Mr. Wayne Price

Z 765 963 130



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to <i>Star Tool Company - 612-076</i>	
Receipt and No. <i>P.O. Box 2008</i>	
P.O., State and ZIP Code <i>Hobbs NM, 88240</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

OIL CONSERVATION DIVISION

October 19, 1995

CERTIFIED MAIL**RETURN RECEIPT NO. Z-765-963-085**

Mr. David D. Taylor, President
 Star Tool Company
 P.O. Box 2008
 Hobbs, NM 88240

**RE: Discharge Plan GW-76 Renewal
 Hobbs Service Facility
 Lea County, New Mexico**

Dear Mr. Taylor:

On October 2, 1991, the groundwater discharge plan, GW-76, for the Star Tool Company Service Facility located in NE/4 NW/4, Section 32, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, **will expire on October 2, 1996.** The plan was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operation, you must renew your discharge plan. **If Star Tool Company submits an application for renewal at least 120 days before the discharge plan expires (on or before June 2, 1996), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether you have made, or intend to make, any changes in your system, and if so, please include these modifications in your application for renewal.

The discharge plan renewal application for the Hobbs Service Facility is subject to the WQCC Regulations 3-114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of fifty (50) dollars plus a flat fee of \$690 for Oilfield Service Companies.

The (50) dollar filing fee is to be submitted with the discharge plan renewal application and is nonrefundable. The flat fee for an approved discharge plan renewal may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan - with the first payment due at the time of approval. Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

Mr. David D. Taylor
October 19, 1995
Page 2

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 renewal request. The following information is included: Application form, Guidelines, and WQCC regulations.

If you no longer have any actual or potential discharges a discharge plan is not needed, please notify this office. If you have any questions regarding this matter, please do not hesitate to contact Mr. Patricio W. Sanchez at (505) 827-7156.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

RCA/pws

xc: Mr. Wayne Price and Mr. Jerry Sexton

Z 765 963 085

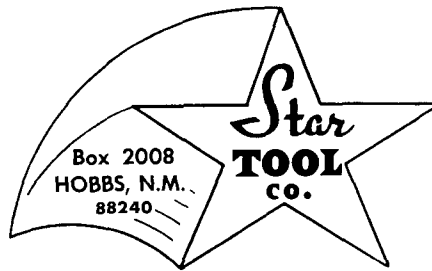


**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to GW-76	
Street and No. Star Tool Company	
P.O., State and ZIP Code Hobbs	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993



OIL CONSERVATION DIVISION
RECEIVED

'91 SEP 17 AM 8 50

PHONES: (505) 397-1533 — 393-2643

September 16, 1991

Mr. Roger C. Anderson
Oil Conservation Division
P. O. Box 2008
Santa Fe, N.M. 87504

Re; Discharge Plan G. W. - 76
Hobbs Service Facility (Star Tool Company)
Lea County, New Mexico

Dear Mr. Anderson:

Star Tool Company has received your comments on the above named plan. We appreciate your concern and look forward to the day our facility is O. C. D. approved. Here are our comments to the four parts you inquired about.

1. PART VIII WASTE DISPOSAL:

We have enclosed copies of test performed to our final pit. We tested for T.C.L.P. metals, semivolatile organics, and volatile organics. Test were performed by Southwestern Laboratories in Midland, Tx. Star Tool Company further agrees that all composite of final pit shall remain the same as per samples taken 7-23-91 to the best of our ability.

2. SECTION IX MODIFICATIONS:

All our wastes from the final pit shall be removed from our site to be disposed of at Controlled Recovery, Inc. A surface waste disposal & oil treating plant. The disposal in the S/Z N/Z and the N/A S/Z of section 27, township 20 south, range 32 east, N.M.P.M., Lea County, New Mexico.

3. SECTION XI.A SPILL/LEAK PREVENTION:

Our storage tanks which will be interconnected will be enclosed with a cinderblock fence to hold (1 1/3) times the total capacity of the tanks.

4. SECTION XI.B SPILL/LEAK PREVENTION:

Notification of all spills or leaks will be done in accordance with O. C. D. Rule #116, 'Notification of fire, breaks, spills, leaks, and blowouts.' Two copies will be sent to appropriate district office, ours being District I. (P. O. Box 1980 Hobbs, N.M. 88241-1980.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Oscar Molina', with a stylized flourish at the end.

Oscar Molina
Shop Foreman

OM/ss



SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 West Industrial Avenue • P.O. Box 2150 • Midland, Texas 79702

Report of tests on Waste
Client Star Tool Company
Delivered by Mike Blakemore

File No. 6810625
Report No. 73168
Report Date 8-29-91
Date Received 7-23-91

Identification Composite of Final Pit, Sampled 7-23-91 @11:30 am
by Jack Barton and Mike Blakemore

REPORT OF TCLP VOLATILE ORGANICS

Date of Analysis 8-6-91
Technique Purge and Trap GC/MS

Method EPA SW846 5030/8240
Analyst: R.K.W.

<u>Compound</u>	<u>Results mg/L</u>	<u>Regulatory Level mg/L</u>
Benzene	*0.05	0.5
Carbon Tetrachloride	*0.05	0.5
Chlorobenzene	*0.05	100
Chloroform	*0.05	6.0
1,2-Dichloroethane	*0.05	0.5
1,1-Dichloroethylene	*0.05	0.7
Methyl Ethyl Ketone	0.08	200
Tetrachloroethylene	*0.05	0.7
Trichloroethylene	*0.05	0.5
Vinyl Chloride	*0.01	0.2

*Denotes "less than"

Copies: Star Tool Company
Attn: Mike Gant

LLC
Reviewed by

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Benzene	*0.05	0.5
Carbon Tetrachloride	*0.05	0.5
Chlorobenzene	*0.05	100
Chloroform	*0.05	6.0
1,2-Dichloroethane	*0.05	0.5
1,1-Dichloroethylene	*0.05	0.7
Methyl Ethyl Ketone	0.08	200
Tetrachloroethylene	*0.05	0.7
Trichloroethylene	*0.05	0.5
Vinyl Chloride	*0.01	0.2

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by Jack Barton and Mike Blakemore

REPORT OF TCLP SEMIVOLATILE ORGANICS

Date of Analysis 8-12-91
Analyst: L. Jones

Method EPA SW846 3510/8270

<u>Compound</u>	<u>Results mg/L</u>	<u>Regulatory Level mg/L</u>
<u>Acid</u>	*0.05	
o-Cresol	*0.05	200
m,p-Cresol	*0.05	200
Pentachlorophenol	*0.05	100
2,4,5-Trichlorophenol	*0.05	400
2,4,6-Trichlorophenol	*0.05	2.0
<u>Base Neutral</u>		
1,4-Dichlorobenzene	*0.05	7.5
2,4-Dinitrotoluene	*0.05	0.13
Hexachlorobenzene	*0.05	0.13
Hexachlorobutadiene	*0.05	0.5
Hexachloroethane	*0.05	3.0
Nitrobenzene	*0.05	2.0
Pyridine	*0.05	5.0

*Denotes "less than"

Copies: Star Tool Company
Attn: Mike Gant

LJC
Reviewed by

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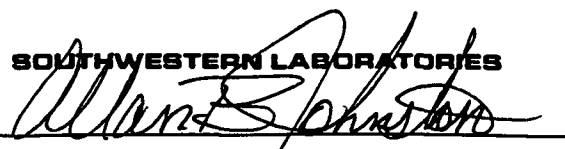
<u>Compound</u>	<u>Results mg/L</u>	<u>Regulatory Level mg/L</u>
<u>Acid</u>	*0.05	
o-Cresol	*0.05	200
m,p-Cresol	*0.05	200
Pentachlorophenol	*0.05	100
2,4,5-Trichlorophenol	*0.05	400
2,4,6-Trichlorophenol	*0.05	2.0
<u>Base Neutral</u>		
1,4-Dichlorobenzene	*0.05	7.5
2,4-Dinitrotoluene	*0.05	0.13
Hexachlorobenzene	*0.05	0.13
Hexachlorobutadiene	*0.05	0.5
Hexachloroethane	*0.05	3.0
Nitrobenzene	*0.05	2.0
Pyridine	*0.05	5.0

*Denotes "less than"

Copies: Star Tool Company
Attn: Mike Gant


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by Jack Barton and Mike Blakemore

REPORT OF TCLP METALS

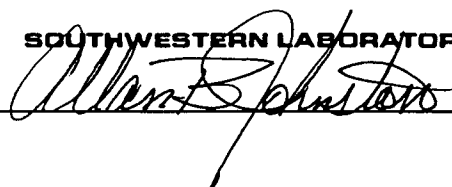
<u>Parameters</u>	<u>Results</u> <u>mg/L</u>	<u>Regulatory</u> <u>Level mg/L</u>	<u>Date</u> <u>Performed</u>	<u>Analyst</u>	<u>Test Method</u>
Arsenic	*0.05	5.0	7-31-91	G. Bunch	SW846,7061
Barium	0.5	100	8-6-91	G. Bunch	SW846,7080
Cadmium	*0.05	1.0	8-6-91	G. Bunch	SW846,7130
Chromium	*0.1	5.0	8-6-91	G. Bunch	SW846,7190
Lead	0.2	5.0	8-6-91	G. Bunch	SW846,7420
Mercury	*0.01	0.2	8-1-91	G. Bunch	SW846,7470
Selenium	*0.05	1.0	7-31-91	G. Bunch	SW846,7741
Silver	*0.1	5.0	8-6-91	G. Bunch	SW846,7760

*Denotes "less than"

Copies: Star Tool Company
Attn: Mike Gant


Reviewed by

SOUTHWESTERN LABORATORIES





SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services
1703 West Industrial Avenue • P.O. Box 2150 • Midland, Texas 79702

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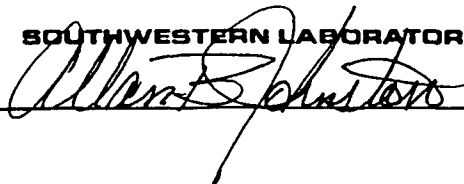
<u>Parameters</u>	<u>Results</u> <u>mg/L</u>	<u>Regulatory</u> <u>Level mg/L</u>	<u>Date</u> <u>Performed</u>	<u>Analyst</u>	<u>Test Method</u>
Arsenic	*0.05	5.0	7-31-91	G. Bunch	SW846,7061
Barium	0.5	100	8-6-91	G. Bunch	SW846,7080
Cadmium	*0.05	1.0	8-6-91	G. Bunch	SW846,7130
Chromium	*0.1	5.0	8-6-91	G. Bunch	SW846,7190
Lead	0.2	5.0	8-6-91	G. Bunch	SW846,7420
Mercury	*0.01	0.2	8-1-91	G. Bunch	SW846,7470
Selenium	*0.05	1.0	7-31-91	G. Bunch	SW846,7741
Silver	*0.1	5.0	8-6-91	G. Bunch	SW846,7760

*Denotes "less than"

Copies: Star Tool Company
Attn: Mike Gant


Reviewed by

SOUTHWESTERN LABORATORIES



Southwestern Laboratories Inc.
QA/QC Statement
Midland EAS

Date Received Jul 23, 1991

Sample Matrix TCLP Extract

Analyst G. Bunch

Element	Date of Analysis	Percent Recovery (spike)	Percent Deviation (duplicate)	Blank Concentration (mg/L)	Percent of Known	Method of Analysis (SW 846)
Arsenic	Jul 31, 1991	100	0	< 0.05	100	7061
Barium	Aug 6, 1991	101	0	< 0.5	96	7080
Cadmium	Aug 6, 1991	102	0	< 0.05	102	7130
Chromium	Aug 6, 1991	97	0	< 0.1	104	7190
Lead	Aug 6, 1991	103	0	< 0.2	101	7420
Mercury	Aug 1, 1991	112	0	< 0.01	110	7470
Selenium	Jul 31, 1991	100	0	< 0.05	102	7741
Silver	Aug 6, 1991	96	0	< 0.1	104	7760

Applicable Lab 73168

Numbers _____

Lab spike no. 73168

Lab dup. no. 73168

Notes _____

Reviewed by 

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services
1703 West Industrial • P.O. Box 2150, Midland, Texas 79702 • 915/683-3349

Analysis Request and Chain of Custody Record

[illegible]

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

BRUCE KING
GOVERNOR

August 14, 1991

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO.

Mr. David D. Taylor
Star Tool Company
P. O. Box 2008
Hobbs, New Mexico 88240

RE: Discharge Plan GW-76
Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Taylor:

The Oil Conservation Division (OCD) has received the discharge plan application, dated June 27, 1991, for the above referenced facility. The following comments and requests for additional information are based on review of the application and observations from the February 5, 1991 site inspection.

1. Part VIII Waste Disposal: This section states wastes will be transported off-site for disposal. Wastes generated at a service company facility are not exempt from the Resources Conservation and Recovery Act (RCRA) and, therefore, must be tested prior to disposal. Disposal must be at an OCD approved disposal facility.
2. Section IX Modifications: Pursuant to Federal Regulations, service company wastes are not authorized for disposal at a Class II disposal well. All wastes must be tested for hazardous characteristics prior to disposal. If the waste is determined to be non-hazardous, liquids may be disposed of at an OCD approved Class I (non-hazardous) disposal well, at an OCD approved surface disposal facility or injected as makeup water at an OCD approved secondary recovery operation. Solids are to be disposed of at an OCD approved surface disposal facility.

Mr. David D. Taylor

August 14, 1991

-2-

3. Section XI.A. Spill/Leak Prevention: This section states the storage tanks will be enclosed with a cinder block fence that will hold "1/2 the capacity of both tanks". It is OCD's policy that all interconnected tanks that contain fluids, other than fresh water be bermed to contain one and one third (1 1/3) times the total capacity of the tanks.
4. Section XI.B Spill/Leak Prevention: Notification of all spills or leaks will be to the OCD pursuant to OCD Rule 116 (enclosed).

Submission of responses to the above comments will allow review of your application to continue.

If you have any questions, please do not hesitate to call me at (505) 827-5884.

Sincerely,



Roger C. Anderson
Environmental Engineer

RCA/sl

Enclosure

cc: OCD Hobbs Office

AFFIDAVIT OF PUBLICATION

No. 28175

STATE OF NEW MEXICO,
County of San Juan:

CHRISTINE HILL being duly
sworn, says: "That she is the
NATIONAL AD MANAGER of
The Farmington Daily Times, a daily
newspaper of general circulation
published in English in Farmington,
said county and state, and that the
hereto attached LEGAL NOTICE

was published in a regular and entire
issue of the said Farmington Daily
Times, a daily newspaper duly quali-
fied for the purpose within the
meaning of Chapter 167 of the 1937
Session Laws of the State of New
Mexico for ONE consecutive
(days) (weeks) on the same day as
follows:

First Publication FRIDAY, AUGUST 16, 1991

Second Publication _____

Third Publication _____

Fourth Publication _____

and that payment therefore in the
amount of \$101.69 has been made.

Christine Hill

COPY OF PUBLICATI

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 applications and renewal ap-
plications have been submitted to the Director of the
Oil Conservation Division, State Land Office Building,
P. O. Box 2088, Santa Fe, New Mexico 87504-2088,
Telephone (505)827-5800:

(GW-85) - Union Oil Company of California, DBA
UNOCAL, Glen O. Papp, District Production Engi-
neer, 3300 North Butler, Suite 200, Farmington,
New Mexico 87401, has submitted a discharge plan
application for its Navajo Compressor Station
located in the NW/4, NW/4, Section 7, Township 25
North, Range 10 West, NMPM, San Juan County,
New Mexico. Approximately 4 gallons per day of
washdown water and natural gas liquids will be
collected in a double lined pond equipped with leak
detection prior to disposal at an OCD approved
offsite disposal facility. Groundwater most likely to
be affected by an accidental discharge is at a depth
in excess of 100 feet with a total dissolved solids
concentration of approximately 700 mg/l. The dis-
charge plan addresses how spills, leaks and other
accidental discharges to the surface will be man-
aged.

(GW-86) - BCO, Inc., Elizabeth B. Keeshan, Presi-
dent, 135 Grant, Santa Fe, New Mexico, 87501, has
submitted a discharge plan application for its North
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NMPM, Rio Arriba County, New Mexico. Approx-
imately 14 gallons per day of wastewater will be
stored in an above-ground fiberglass tank prior to
disposal in an OCD approved offsite disposal fa-
cility. Groundwater most likely to be affected by an
accidental discharge is at a depth of approximately
225 feet with a total dissolved solids concentration
of approximately 1470 mg/l. The discharge plan
addresses how spills, leaks and other accidental
discharges to the surface will be managed.

(GW-75) - HOMCO International, Inc., Robert J.
Meddler, Director, Environmental and Safety, P. O.
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facility located in Section 29, Township 18 South,
Range 38 East, NMPM, 3000 West County Road,
Lea County, New Mexico. Approximately 800 gal-
lons per day of wastewater are presently stored in
an above ground storage tank prior to disposal in an
OCD approved offsite disposal facility. Proposed
modifications include the installation of a waste-
water recycling system. Unrecyclable wastes will be

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND
NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
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(GW-72)-The Western Company of North America, Ron McKeel, Director, Real Estate and Facilities, 515 Post Oak Blvd., Suite 915, Houston, Texas 77027, has submitted a discharge plan application for its Hobbs service facility located in the NE/4, Section 20, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 3350 gallons per day of wastewater with a total dissolved solids concentration of 3942 mg/l is stored in below grade fiberglass tanks prior to disposal at an OCD approved offsite disposal facility. Groundwater most likely to be affected by an accidental discharge is in the Ogallala aquifer at a depth of approximately 55 feet with a total dissolved solids concentration of ranging from 300 mg/l to 700 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

STATE OF NEW MEXICO

County of Bernalillo

ss

OIL CONSERVATION

Thomas J. Smithson being duly sworn declares and says that he is National Advertising manager of the Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for.....1.....times, the first publication being on the.....14.....day

of.....Aug....., 1991, and the subsequent consecutive

publications on....., 1991.

Thomas J. Smithson

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this.....14.....day of.....Aug....., 1991.

PRICE.....\$67.95.....

Statement to come at end of month.

CLA-22-A (R-12/91)

ACCOUNT NUMBER.....C 81184.....

OFFICIAL SEAL
Bernadette Ortiz
BERNADETTE ORTIZ
NOTARY PUBLIC-NEW MEXICO
WITH SECRETARY OF STATE
pires 12/18/93

(GW-76)-Star Tool Company, David T. Taylor, Vice President, P.O. Box 2008, Hobbs, New Mexico 88240, has submitted a discharge plan application for its Hobbs service facility located in the NE/4, NW/4, Section 32, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 10 gallons per day of wastewater are currently stored in unlined pits prior to disposal at an OCD approved offsite disposal facility. Proposed modifications include the installation of a wastewater recycling system. Unrecyclable wastes will be collected in above ground water tanks prior to disposal at an OCD approved offsite disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of 44 feet with a total dissolved solids concentration ranging from 300 mg/l to 700 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-73)-Dowell Schlumberger, Inc., M.L. Wood Jr., Environmental Coordinator, 1105 West Bender Street, Hobbs, New Mexico 88240, has submitted a discharge plan application for its Hobbs service facility located in the NE/4 NE/4, Section 28, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 2200 gallons per day of wastewater is stored in above grade tanks and lined pits prior to disposal at an OCD approved offsite disposal facility. Proposed modifications include the installation of a wastewater recycling system and closure of all surface impoundments. Wastes not recyclable will be disposed of at an OCD approved offsite disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of 68 feet with a total dissolved solids concentration ranging from 300 mg/l to 700 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-14)-Navajo Refining Company, David G. Griffin, Superintendent, Environmental Affairs, P.O. Box 159, Artesia, New Mexico 88210, has submitted a discharge plan renewal application for its Lovington Refinery located in the SE/4, Section 31, Township 16 South, Range 37 East; the SE/4 of Section 36, Township 16 South, Range 36 East; the NW/4 of Section 6, Township 17 South, Range 37 East; and the NE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico. Approximately 175,000 gallons per day of process wastewater with a total dissolved solids concentration of 1300 mg/l will undergo treatment in a USEPA regulated pretreatment unit prior to discharge to the City of Lovington sanitary sewer system. Groundwater most likely to be affected by an accidental discharge is at a depth ranging from 60 feet to 80 feet with a total dissolved solids concentration of 450 mg/l. The discharge plan addresses how spills, leaks and other accidental discharge to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Discharge 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 5:00 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 public hearing may be requested by any interested person. Request for 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 plan and information submitted at the hearing. GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 6

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

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

That the notice which is hereto attached, entitled

Notice Of Publication

and numbered in the Court of Lea County, New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the same day of the week, for one (1) consecutive weeks, beginning with the issue of August 8, 1991

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

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

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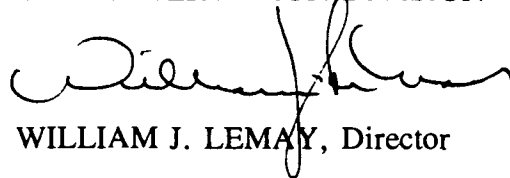
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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 5th day of August, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY, Director

S E A L

Discharge plans for Hobbs Service Facility

STAR TOOL COMPANY
P.O. BOX 2008
HOBBS, N.M. 88240

RECEIVED

JUL 03 1991

OIL CONSERVATION DIV.
SANTA FE

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES

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

- I. TYPE: Oilfield Fishing Tool Service Company
- II. OPERATOR: Star Tool Company
ADDRESS: P. O. Box 2008 / Hobbs, N.M. 88240
CONTACT PERSON: David T. Taylor PHONE: (505) 397-4988
- III. LOCATION: /4 /4 Section Township Range
Submit large scale topographic map showing exact location.
- IV. Attach the name and address of the landowner of the facility site.
- V. Attach a description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility.
- VI. Attach a description of all materials stored or used at the facility.
- VII. Attach a description of present sources and quantites of effluent and waste solids.
- VIII. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
- IX. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
- X. Attach a routine inspection, maintenance plan and reporting to ensure permit compliance.
- XI. Attach a contingency plan for reporting and clean-up of spills or releases.
- XII. Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water. (Logs from waterwells obtained at State Eng. Office)
- XIII. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
- XIV. CERTIFICATION

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

Name: David T. Taylor

Title: Executive-Vice President

Signature: David T. Taylor

Date: June 27, 1991

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

STAR TOOL DISCHARGE PLAN

III. Location Of Discharge

We have submitted a topographic Map of the facility site plan.

The Legal Description:

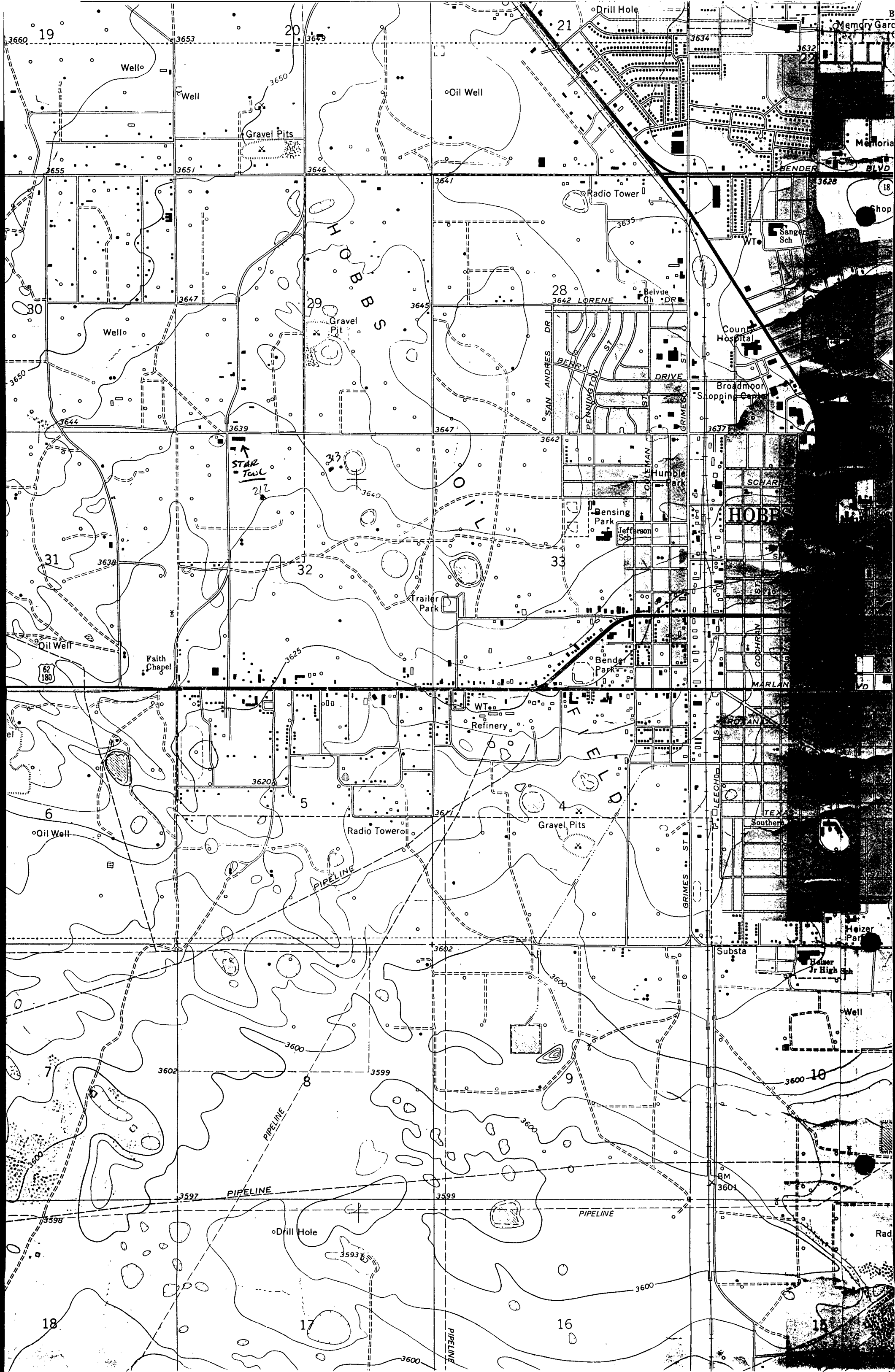
N.E/4 N.W/4 Section 32 Township 18S Range 38 E in Lea County, New Mexico.

IV. Landowners

Jimmy & Jean Dinsmore
P. O. Box 2008
Hobbs, N.M. 88240

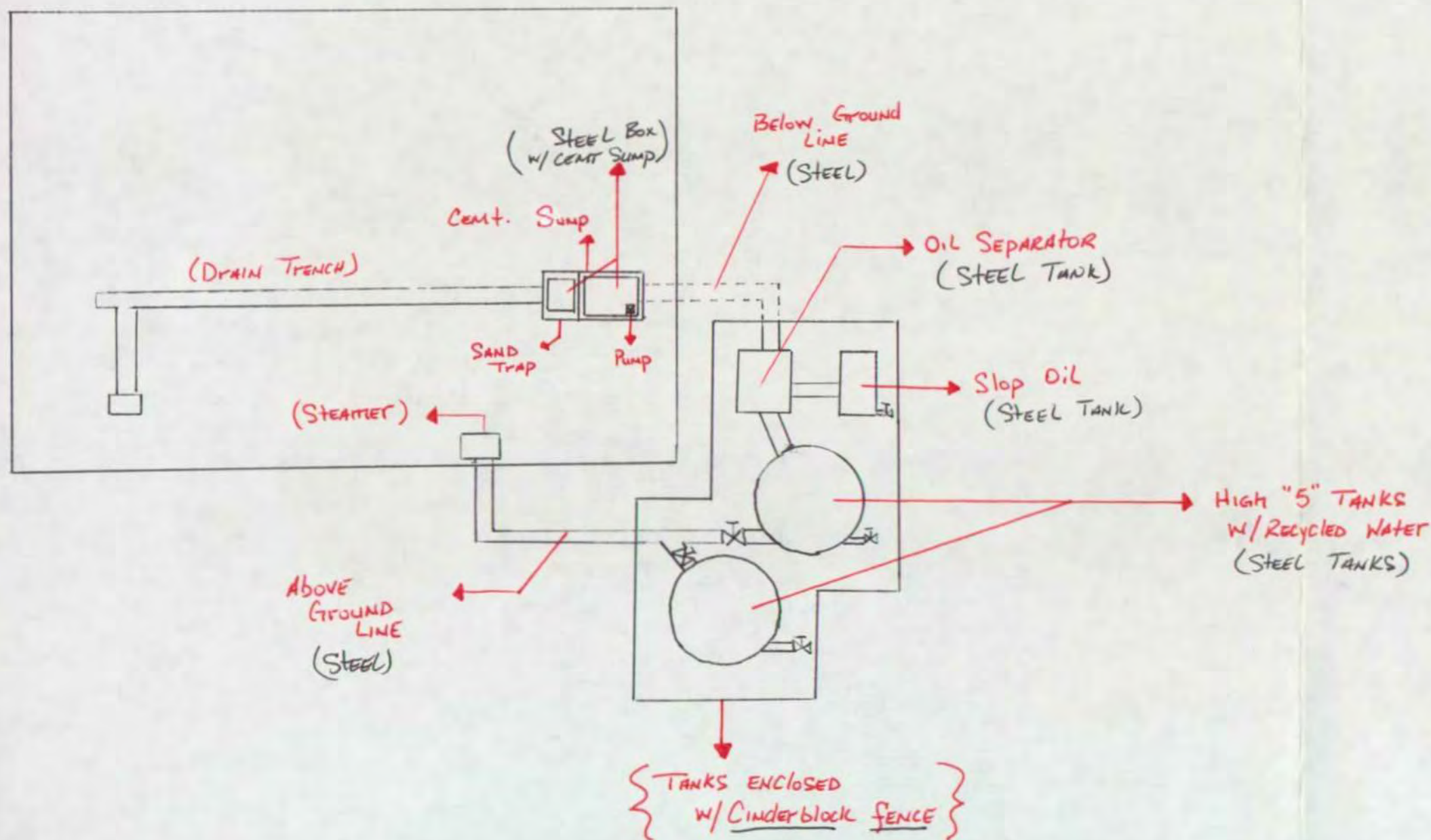
V. Facility Description

Submitted in this plan.



Topographic Map of
Star Tool Company
Hobbs, N. Mexico
88240
(Part III)

Proposed Modifications to existing System "RECYCLABLE SYSTEM"



DISCHARGE PLAN APPLICATION

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Oilfield Service Facilities

JUL 03 1991

OIL CONSERVATION DIV.
SANTA FE

Part VII. Form (Optional)

Sources and Quantities of Effluent and Waste Solids Generated at the Facility - For each source include types of effluents (e.g. salt water, hydrocarbons, sewage, etc.), estimated quantities in barrels or gallons per month, and types and volumes of major additives (e.g. acids, biocides, detergents, degreasers, etc.). Use of this form is optional, but the information requested must be provided.

Waste Type	General Composition and Source (solvents from small parts cleaning, oil filters from trucks, etc.)	Volume Per Month (bbl or gal)	Major Additives (e.g. degreaser fluids from truck washing, soap in steam cleaners)
1. Truck Wastes (Describe types of original contents trucked [e.g. brine, produced water, drilling fluids, oil wastes, etc])	N/A		
2. Truck, Tank & Drum Washing	(Truck Washing) Done with car shampoo which contains synthetic detergents about 4 gallons per month. (Tank / Reverse Pits) Are sprayed with degreaser (biodegradeable). MSDS sheets are provided. About 10 gallons per month. No drum washing done.		
3. Steam Cleaning of Parts, Equipment, Tanks	Oilfield tools are sprayed with biodegradeable degreaser and steamed off. About 25 gallons per month.		
4. Solvent/Degreaser Use	(Cleaning Solvent) used in mechanic shop to clean off engine parts. About 30 gallons used every 6 months. (Degreaser) used to clean off all our oilfield equipment. About 35 - 40 gallons used every month.		
5. Spent Acids, Caustics, or Completion Fluids (Describe)	(Acids) used for acidizing our steamers. About once every 2 months. 4 - 6 gallons used every month. (No completion fluids at site)		

<i>Waste Type</i>	<i>General Composition and Source (solvents from small parts cleaning, oil filters from trucks, etc.)</i>	<i>Volume Per Month (bbl or gal)</i>	<i>Major Additives (e.g. degreaser fluids from truck washing, soap in steam cleaners)</i>
6. <i>Waste Slop Oil</i>	Collected - consists of oil with some sludge. About 5 - 10 gallons per month. Collected by waste oil recovery companies.		
7. <i>Waste Lubrication and Motor Oils</i>	(Motor Oils) are drained into collection tank and hauled off by waste oil collection companies. About 100 gallons collected per month.		
8. <i>Oil Filters</i>	Are drained to remove excess oil and disposed of off site.		
9. <i>Solids and Sludges from Tanks (Describe types of materials [e.g. crude oil tank bottoms, sand, etc.])</i>	(Sludges) from tools (paraffin & oil) are disposed of at disposal sites approved by E.P.A. (not ours). About 25 gallons per month.		
10. <i>Painting Wastes</i>	Paint is left to dry out and is hauled off to landfill.		
11. <i>Sewage (Indicate if other wastes mixed with sewage; if no commingling, domestic sewage under jurisdiction of the NMEID)</i>	No other wastes mixed with sewage. Domestic and septic system hauled off as needed.		
12. <i>Other Waste Liquids (Describe in detail)</i>	N/A		
13. <i>Other Waste Solids (Cement, construction materials, used drums)</i>	Used drums are returned to the suppliers.		

<i>Waste Type</i>	<i>Tank(T)/ Drum(S)</i>	<i>Floor Drain/(F) Sump(S)</i>	<i>Pits- Lined(L) or Unlined(U)</i>	<i>Onsite Injection Well</i>	<i>Leach Field</i>	<i>Offsite Disposal</i>
7. <i>Waste Lubrication and Motor Oils</i>	We store in steel tank and have waste motor oil hauled off by collection companies.					
8. <i>Oil Filters</i>	off-site disposal					
9. <i>Solids and Sludges from Tanks</i>	off-site disposal					
10. <i>Painting Wastes</i>	off-site disposal					
11. <i>Sewage</i>	sump, leach field, off-site disposal					
12. <i>Other Waste Liquids</i>	None					
13. <i>Other Waste Solids</i>	Drums					

DISCHARGE PLAN APPLICATION

Oilfield Service Facilities

Part VIII. Form (Optional)

Summary Description of Existing Liquid and Solids Waste Collection and Disposal - For each waste type listed in Part VII, provide summary information about onsite collection and disposal systems. Information on basic construction features, specific descriptions, and wastewater schematics should be provided as required in the Guidelines. The use of this form is optional, but the summary information requested must be provided.

Waste Type	Tank(T)/ Drum(S)	Floor Drain/(F) Sump(S)	Pits- Lined(L) or Unlined(U)	Onsite Injection Well	Leach Field	Offsite Disposal
1. Truck Wastes	(None)					
2. Truck, Tank and Drum Washing		Sump, off-site, disposal, & pits lined				
3. Stream Cleaning of Parts, Equipment, Tanks		Sump, pits lined, off-site disposal				
4. Solvent/Degreaser Use		Solvent - drums - off-site disposal Degreaser - sump - pits lined - off-site disposal				
5. Spent Acids, Caustics, or Completion Fluids		Spent acids (drums), - off-site disposal				
6. Waste Slop Oil		Sump, tank, - offsite disposal				

DISCHARGE PLAN APPLICATION**RECEIVED**

Oilfield Service Facilities

JUL 03 1991

Part VI. Form (Optional)

OIL CONSERVATION DIV.
SANTA FE

Materials Stored or Used at the Facility - For each category of material listed below provide information on the general composition of the material or specific information (including brand names if requested), whether a solid or liquid, type of container, estimated volume stored and location. Submit MSD information for chemicals as requested. Use of this form is optional, but the information requested must be provided.

Name	General Makeup or Specific Brand Name (if requested)	Solids(S) or Liquids(L)?	Type of Container (tank drum, etc.)	Estimated Volume Stored	Location (yard, shop, drum storage, etc.)
1. Drilling Fluids (include general makeup & types special additives [e.g. oil, chrome, etc.]	*None Stored at site.				
2. Brines - (KCl, NaCl, etc.)	*None stored at site.				
3. Acids/Caustics (Provide names & MSD sheets)	Muriatic Acids (L)		Drum	55 Gallons	Drum Storage
	Caustic Soda (S)		"	35 "	"
	Alpha Deliming (L)		"	55 "	"
4. Detergents/Soaps	F 24- Detergent (L)		Gallon/plastic	05 Gallons	Parts Dept.
	Alpha Car Shampoo (L)		"	---	"
	Waxy- wash car shampoo (L)		"	---	"
5. Solvents & Degreasers (Provide names & MSD sheets)	Alpha hand cleaner & Degreaser (L)		Drum	55 Gallons	Drum Storage
	B-140 Ind. degreaser(L)		"	---	"
	432 Parts Washer Solvent (L)		"	30 Gallons	Mechanic Shop
6. Paraffin Treatment/ Emulsion Breakers (Provide names & MSD sheets)	Alpha Formula (S)		Drum	25 Gallons	Drum Storage
	9863 Hand alkaline Cleaner				
	Sodium Hyroxide				
7. Biocides (Provide names & MSD sheets)	None Stored at site				
8. Others - (Include other liquids & solids, e.g. cement etc.)	None stored at site				

MATERIAL SAFETY DATA SHEET

DATE: July 11, 1986 (ESSENTIALLY SIMILAR TO FORM OSHA-20)

I-PRODUCT INFORMATION

MANUFACTURED FOR

ALPHA DYN CHEMICAL

EMERGENCY PHONE NUMBER

(505) 392-7034

ADDRESS

P.O. BOX F #3 BRAND DRIVE HOBBS, N.M. 88240

OTHER

FORMULA

N/A

TRADE NAME

MURIATIC ACID

II-HAZARDOUS INGREDIENTS

	CAS #	%(wt)	TLV(ppm)
Hydrochloric Acid		31	

III-PHYSICAL DATA

BOILING POINT (°F)	230°F	SPECIFIC GRAVITY (H ₂ O = 1)	1.18
VAPOR PRESSURE (psig)	94	% VOLATILE BY VOLUME	100
VAPOR DENSITY	127	EVAPORATION RATE (= 1)
SOLUBILITY IN WATER	Complete	APPEARANCE AND ODOR	Water white, pungent

IV-FIRE & EXPLOSION HAZARD DATA

FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST	FLAMMABLE LIMITS	Lower	Upper
EXTINGUISHING MEDIA			
None			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE & EXPLOSION HAZARDS			
Contact with metal results in highly flammable hydrogen			

V-REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	Contact with bases and chlorine bleaches

Copy #1
 Part VI
 Part #3

VI-HEALTH HAZARD DATA	
OSHA PERMISSIBLE EXPOSURE LIMIT	<u>Undetermined</u>
EFFECTS OF OVER EXPOSURE	
INHALATION	Harmful if inhaled
SKIN CONTACT / ABSORPTION	Can cause severe burns
INGESTION	Can be harmful or fatal
EYES	Can cause severe burns
EMERGENCY AND FIRST AID PROCEDURES	
EYES AND SKIN	Skin: Wash with soap and water Eyes: Flush with water for at least 15 minutes. Get medical attention.
INHALATION	Contains corrosive fumes which are harmful if inhaled. Move to fresh air.
INGESTION	Give amount of milk or water to drink. Get medical attention immediately.
VII-SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Flush area with plenty of water.	
WASTE DISPOSAL METHOD	
Normal Procedure	
VIII-SPECIAL PROTECTION INFORMATION	
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
EYE	<u>Goggles</u>
SKIN	<u>Protective gloves</u>
OTHER	
VENTILATION REQUIREMENTS	
IX-SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Keep closure up to prevent leakage	
OTHER PRECAUTIONS	

(Page 3)

Alpha-Dyn Chemical Co.

PHONE (505) 392-7034

P. O. BOX F

HOBBS, NEW MEXICO 88240

I - IDENTIFICATION

CHEMICAL NAME	CHEMICAL FORMULA	MOLECULAR WEIGHT
Sodium Hydroxide, Anhydrous	NaOH	40.00
TRADE NAME		
Caustic Soda, Anhydrous, Beads and Solid		
SYNONYMS	DOT IDENTIFICATION NO.	
Caustic, Beads, Bead Caustic, Soda Lye	1823	

II - PRODUCT AND COMPONENT DATA

COMPONENT(S) CHEMICAL NAME	CAS REGISTRY NO	% (Approx)	ACGIH TLV TWA
Sodium Hydroxide	1310-73-2	100	2 mg/m ³ Ceiling

III - PHYSICAL DATA

APPEARANCE AND ODOR	SPECIFIC GRAVITY
White solid or bead; odorless	2.13 gm/cc
BOILING POINT	VAPOR DENSITY IN AIR (Air = 1)
N/A	N/A
VAPOR PRESSURE	% VOLATILE, BY VOLUME
N/A	0
EVAPORATION RATE	SOLUBILITY IN WATER
0	100%

IV - REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
Stable	Protect against contact with moisture.
INCOMPATIBILITY (Materials to avoid)	
Reacts vigorously with water, acids, chlorinated hydrocarbons, acetaldehyde, acrolein, aluminum, chlorine trifluoride, hydroquinone, maleic anhydride and phosphorous pentoxide.	
HAZARDOUS DECOMPOSITION PRODUCTS	
Will not decompose	
HAZARDOUS POLYMERIZATION	
Will not occur	

VIII - STORAGE AND HANDLING PRECAUTIONS

Keep labeled and sealed containers in a dry area.

When dissolving in water, use warm water but not exceeding 100°F. Slowly add caustic to surface of water with constant stirring to avoid violent spattering. Full protective clothing should be worn. Large amount of heat will be evolved.

Contact of caustic soda cleaning solutions with food and beverage products (in enclosed vessels or spaces) may produce lethal concentrations of carbon monoxide gas.

IX - SPILL LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Cleanup personnel must wear proper protective equipment (refer to Section VII). Reclaim into closed containers for possible normal use or disposal. Can be flushed and dissolved with water if properly contained for collection and disposal. Avoid contamination of ground and surface waters. Do not flush to sewer.

WASTE DISPOSAL METHOD

Recovered solids or liquids may be sent to a licensed reclaimer or disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

X - TRANSPORTATION

DOT HAZARD CLASSIFICATION

Corrosive

PLACARD REQUIRED

Corrosive

LABEL REQUIRED

Corrosive. Label as required by OSHA Hazard Communication Rule, 29 CFR, Part 1910.1200 (f), and any applicable state and local regulations.

For Further Information

ALPHA-DYN CHEMICAL CO.

First in Top Quality Products

P.O. Box F • HOBBS, NEW MEXICO 88240

DATE OF PREPARATION: October 1, 1985

CHRONIC TOXICITY

No known chronic effects.

Carcinogenicity: Sodium hydroxide has not been studied relative to carcinogenicity. Sodium hydroxide is not listed on the IARC, NTP or OSHA carcinogen list.

Reproductive Toxicity: Sodium hydroxide has not been studied relative to reproductive effects.

VII - PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION

Above 2 mg/m³ use approved high-efficiency particulate filter with full facepiece or self-contained breathing apparatus.

VENTILATION

As necessary to maintain concentration in air below 2 mg/m³.

SKIN PROTECTION

Wear neoprene, PVC, or rubber gloves; PVC rain suit; rubber boots with pant legs over boots.

EYE PROTECTION

Chemical goggles which are dust and splashproof. When mixing solutions, wear face shield or hood to protect face from splashing.

HYGIENE

Avoid contact with skin and avoid breathing dust. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using bathroom. Any protective clothing, clothing or shoes which become contaminated with caustic should be removed immediately and thoroughly laundered before reuse.

OTHER CONTROL MEASURES

Safety shower and eyewash station must be located in immediate work area. Any non-impervious clothing or shoes which become contaminated with caustic should be removed immediately. To determine the exposure level(s), monitoring should be performed regularly.

V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)

/1.

FLAMMABLE LIMITS IN AIR

N/A

EXTINGUISHING AGENTS

N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS

In the presence of moisture, will react with some metals, e.g. aluminum, tin, and zinc, to form flammable hydrogen gas.

VI - TOXICITY AND FIRST AID

EXPOSURE LIMITS (When exposure to this product and other chemicals is concurrent, the TLV must be defined in the workplace.)

ACGIH: 2 mg/m³ Ceiling

OSHA: 2 mg/m³ (8 hr) TWA

Effects described in this section are believed not to occur if exposures are maintained at or below appropriate TLVs.

Because of the wide variation in individual susceptibility, TLVs may not be applicable to all persons and those with medical conditions listed below.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No known medical conditions aggravated by exposure.

ACUTE TOXICITY

Primary route(s) of exposure:

☒ Inhalation

☒ Skin Absorption

☐ Ingestion

Inhalation: Inhalation of dust or mist can cause mild irritation at 2 mg/m³. More severe burns and tissue damage at the upper respiratory tract, can occur at higher concentrations. Pneumonitis can result from severe exposures.

Skin: Major potential hazard - Bead or liquid contact with the skin can cause severe burns with deep ulcerations. Contact with dust or mist can cause multiple burns with temporary loss of hair at burn site. Solutions of 4% may not cause irritation and burning for several hours, while 25 to 50% solutions cause these effects in less than 3 minutes.

Eyes: Major potential hazard - Beads in the eye can cause severe destruction and blindness. These effects can occur rapidly affecting all parts of the eye. Mist or dust can cause irritation with high concentrations causing destructive burns.

Ingestion: Ingestion of sodium hydroxide can cause severe burning and pain in lips, mouth, tongue, throat and stomach. Severe scarring of the throat can occur after swallowing. Death can result from ingestion.

FIRST AID

Inhalation: Move person to fresh air. If breathing stops, administer artificial respiration. Get medical attention immediately.

Skin: Remove contaminated clothing and immediately wash skin thoroughly for a minimum of 15 minutes under safety shower. Get medical attention immediately.

Eyes: Wash eyes immediately with large amounts of water (preferably eyewash fountain), lifting the upper and lower eyelids occasionally. Continue washing for a minimum of 15 minutes. Get medical attention immediately.

Ingestion: If person is conscious, give large quantities of water to dilute caustic. Do not induce vomiting. Get medical attention immediately.

MATERIAL SAFETY DATA SHEET

DATE:

(ESSENTIALLY SIMILAR TO FORM OSHA-20)

I-PRODUCT INFORMATION			
MANUFACTURED FOR		EMERGENCY PHONE NUMBER	
ALPHA DYN CHEMICAL		(505) 392-7034	
ADDRESS		OTHER	
P.O. BOX F #3 BRAND DRIVE HOBBS, N.M. 88240			
FORMULA	TRADE NAME		
N/A	ALPHA DELIMING LIQUID		
II-HAZARDOUS INGREDIENTS			
	CAS #	% (wt)	TLV (ppm)
PHOSPHORIC ACID	7664-38-2		UND.
III-PHYSICAL DATA			
BOILING POINT (°F)	UNDETERMINED	SPECIFIC GRAVITY (H ₂ O = 1)	1.13
VAPOR PRESSURE (psig)	UNDETERMINED	% VOLATILE BY VOLUME	UNDETERMINED
VAPOR DENSITY	UNDETERMINED	EVAPORATION RATE (= 1)	UND.
SOLUBILITY IN WATER	MISCIBLE	APPEARANCE AND ODOR	GREEN LIQUID, SLIGHTLY SWEET
IV-FIRE & EXPLOSION HAZARD DATA			
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST		FLAMMABLE LIMITS Lower Upper	
UNDETERMINED		UNDETERMINED	
EXTINGUISHING MEDIA			
NORMAL			
SPECIAL FIRE FIGHTING PROCEDURES			
NONE			
UNUSUAL FIRE & EXPLOSION HAZARDS			
NON-FLAMMABLE			
V-REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	AVOID CHLORINE CONTAINING COMPOUNDS
INCOMPATIBILITY (Materials to avoid)			
SEE ABOVE			
HAZARDOUS DECOMPOSITION PRODUCTS			
NONE			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	CONTACT WITH CHLORINE CONTAINING COMPOUNDS AS IT WILL PRODUCE CHLORINE GAS

VI-HEALTH HAZARD DATA

OSHA PERMISSIBLE EXPOSURE LIMIT

UNDETERMINED, TLV CONSIDERED TO BE HIGH

EFFECTS OF OVER EXPOSURE

INHALATION

SKIN CONTACT / ABSORPTION

IRRITATING TO SKIN

INGESTION

HARMFUL OR FATAL IF SWALLOWED

EYES

IRRITATING TO EYES

EMERGENCY AND FIRST AID PROCEDURES

EYES AND SKIN SKIN: WASH WITH SOAP & WATER. EYES: FLOOD WITH WATER FOR AT LEAST 15 MINUTES

INHALATION

INGESTION GIVE LARGE AMOUNTS OF MILK OR WATER TO DRINK. GET MEDICAL ATTENTION

VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

NORMAL CLEAN UP PROCEDURE USING BAKING SODA AS NEUTRALIZER

WASTE DISPOSAL METHOD

NORMAL LOCAL REGULATIONS

VIII-SPECIAL PROTECTION INFORMATION

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

NONE REQUIRED

EYE GOGGLES IF SPLASHING OCCURS

SKIN PROTECTIVE GLOVES, AVOID SKIN CONTACT

OTHER NONE

VENTILATION REQUIREMENTS

LOCAL EXHAUST

IX-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP CLOSURE UP TO PREVENT LEAKAGE

OTHER PRECAUTIONS

AVOID CONTACT WITH CHLORINE CONTAINING COMPOUNDS AS IT WILL PRODUCE CHLORINE GAS.

Material Safety Data Sheet

F-24 Detergent Solution
QUICK IDENTIFIER
Common Name: (used on label and list)

May be used to comply with OSHA's Hazard Communication Standard,
29CFR 1910.1200. Standard must be consulted for specific requirements.

SECTION 1 -

Manufacturer's Name American Sales and Service
Address 5675 W. 42nd Street
City, State, and ZIP Odessa, Texas 79764
Emergency Telephone No. 915-38103740
Other Information Calls
Signature of Person Responsible for Preparation (Optional)
Date Prepared

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	T. (optional)	CAS NO
<u>ALKYL PHENOL ETHOXYLATE</u>					
<u>SODIUM ETHYLENEDIAMINE TETRACETIC ACID (SODIUM EDTA)</u>					
<u>SODIUM METASILICATE</u>					
<u>ETHYLENE GLYCOL BUTYL ETHER (EGBE)</u>					

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	<u>Same as water</u>	Specific Gravity (H ₂ O = 1)	<u>1</u>	Vapor Pressure (mm Hg)	<u>Same as w</u>
Solubility in Water	<u>Completely miscible</u>	Reactivity in Water	<u>Stable</u>		
Appearance and Odor	<u>Light colored liquid</u>	Melting Point	<u>Same as water</u>		

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	<u>N/A</u>	Method Used	<u>C</u>	Flammable Limits in Air % by Volume	LEL Lower	<u>N/A</u>	UEL Upper	<u>N/A</u>
Auto-Ignition Temperature	<u>N/A</u>	Extinguisher Media	<u>N/A</u>					
Special Fire Fighting Procedures	<u>N/A</u>							

Unusual Fire and Explosion Hazards Non-flammable

SECTION 6 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability Unstable ☐ Conditions
Stable ☒ To Avoid

Incompatibility
(Materials to Avoid)

Avoid contact with materials which react violently to water or alkali.

Hazardous
Decomposition Products

none known

Hazardous Polymerization May Occur ☐ Conditions
Will Not Occur ☒ To Avoid

SECTION 8 - HEALTH HAZARDS

1. Acute

N/A

2. Chronic

N/A

Signs and
Symptoms of Exposure

Eye and skin irritation.

Medical Conditions Generally
Aggravated by Exposure

none known

Chemical Listed as Carcinogen
or Potential Carcinogen

National Toxicology Yes ☐
Program No ☒

I.A.R.C. Yes ☐
Monographs No ☒

OSHA Yes ☐
No ☒

Emergency and
First Aid Procedures

Wash eyes and skin immediately. If swallowed, do not induce vomiting. Give milk or water, seek medical attention.

ROUTES OF ENTRY

1. Inhalation

2. Eyes

Wash one minute, holding lids apart.

3. Skin

Wash with water

4. Ingestion

Give large quantities of milk or water do not induce vomiting.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken
in Handling and Storage

Do not store in containers made of aluminum, tin, zinc, or alloys of these metals. Wear rubber gloves and eye protection.

Other
Precautions

Do not freeze. Keep out of the reach of children.

Steps to be Taken in Case
Material is Released or Spilled

Wash area thoroughly with water.

Waste Disposal

Methods (Consult Federal, State, and local regulations)

Small spills may be flushed to sewer with plenty of water, if allowed by legal requirements.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection
Specify Type

none

Ventilation

Must be good Local Exhaust

Mechanical
(General)

Special

Other

Protective Gloves Rubber, PVC, or other
impervious material

Eye
Protection

Splash goggles or face shield

Other Protective
Clothing or Equipment

none

Work Hygiene Practices

Wash hands often

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.

(12/27/85)

NOTICE JUDGEMENT BASED ON INDIRECT TEST DATA

MATERIAL SAFETY DATA SHEET

DATE:

(ESSENTIALLY SIMILAR TO FORM OSHA-20)

I-PRODUCT INFORMATION			
MANUFACTURED FOR ALPHA DYN CHEMICAL		EMERGENCY PHONE NUMBER (505) 392-7034	
ADDRESS P.O. BOX F #3 BRAND DRIVE HOBBS, N.M. 88240		OTHER	
FORMULA N/A		TRADE NAME ALPHA H/D CLEANER DEGREASER	
II-HAZARDOUS INGREDIENTS			
	CAS #	% (wt)	TLV (ppm)
III-PHYSICAL DATA			
BOILING POINT (°F) 212°F		SPECIFIC GRAVITY (H ₂ O = 1) 1.01	
VAPOR PRESSURE (psig) Undetermined		% VOLATILE BY VOLUME 96	
VAPOR DENSITY Undetermined		EVAPORATION RATE (= 1) Und.	
SOLUBILITY IN WATER Miscible		APPEARANCE AND ODOR Blue liquid with glycol ether solvent odor.	
IV-FIRE & EXPLOSION HAZARD DATA			
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST greater than 212°F		FLAMMABLE LIMITS Lower Upper	
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE & EXPLOSION HAZARDS Non-flammable			
V-REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

VI-HEALTH HAZARD DATA	
OSHA PERMISSIBLE EXPOSURE LIMIT Undetermined	
EFFECTS OF OVER EXPOSURE	
INHALATION	Respiratory irritation is possible if large amount were volatilized in and air tight atmosphere.
SKIN CONTACT / ABSORPTION	Mildly alkaline, could irritate skin
INGESTION	
EYES	Mildly alkaline, could irritate skin.
EMERGENCY AND FIRST AID PROCEDURES	
EYES AND SKIN	Flush with water
INHALATION	If toxicity is suspected, expose individual to fresh air.
INGESTION	
VII-SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Dilute with water and clean up	
WASTE DISPOSAL METHOD	
VIII-SPECIAL PROTECTION INFORMATION	
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
EYE	goggles if splashing or sensitivity is known
SKIN	gloves if splashing or sensitivity is known
OTHER	
VENTILATION REQUIREMENTS	
Local exhaust acceptable	
IX-SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Normal handling of liquids	
OTHER PRECAUTIONS	

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME BLAINE CHEMICAL AND IND. SUPPLY		EMERGENCY TELEPHONE NO. 505-393-3650
ADDRESS (Number, Street, City, State, and ZIP Code) 1005 NORTH COLEMAN HOBBS, N.M. 88240		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS B-140 IND DEGREASER
CHEMICAL FAMILY CLEANER DEGREASER ALKALINE LIQUID	FORMULA	PROPRIETARY

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS BUTYL CELLUSOLVE	5	50	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
NONE					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	200	SPECIFIC GRAVITY (H ₂ O=1)	1.040
VAPOR PRESSURE (mm Hg.)	18	PERCENT VOLATILE BY VOLUME (%)	85.00
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (—water— =1)	1.00
SOLUBILITY IN WATER	100%		
APPEARANCE AND ODOR CLEAR PURPLE NON VISC. LIQUID WITH SASSFRAS PERFUME			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NONE	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	NONE REQUIRED			
SPECIAL FIRE FIGHTING PROCEDURES	NONE REQUIRED			
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

NOT ESTABLISHED

EFFECTS OF OVEREXPOSURE

INHALATION MAY CAUSE IRRITATION TO MUCOUS MEMBRANES. EYE OR SKIN CONTACT MAY RESULT IN MILD IRRITATION. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION : DO NOT INDUCE VOMITING. DRINK LARGE AMOUNTS OF WATER AND FOLLOW WITH A SOLUTION OF WATER AND VINEGAR. EYES OR SKIN: FLUSH WITH CLEAR WATER FOR

15 MINUTES. INHALATION: REMOVE TO FRESH AIR SUPPLY. SEEK MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	YES	
INCOMPATIBILITY (Materials to avoid)			
DO NOT MIX WITH STRONG ACIDS AS NEUTRALIZATION WILL OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS			
NONE			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	NO	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

CONTAIN SPILL AND DILUTE WITH CLEAR WATER. WASH AREAS EFFECTED WITH CLEAR WATER. AND RINSE.

WASTE DISPOSAL METHOD

DILUTE SPILL WITH CLEAR WATER THEN NEUTRALIZE WITH WATER AND SODIUM BICARBONATE FLUSH TO STANDARD SEWER. RINSE EMPTY CONTAINER BEFORE DISCARDING IN AN AUTHORIZED LANDFILL SITE.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

NONE REQUIRED

VENTILATION	LOCAL EXHAUST	ADEQUATE	SPECIAL
	MECHANICAL (General)	ADEQUATE	OTHER
PROTECTIVE GLOVES		EYE PROTECTION	
RUBBER		GOGGLES OR FACE SHIELD	
OTHER PROTECTIVE EQUIPMENT			
APRON AND BOOTS IF DESIRED			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP AWAY FROM CHILDREN. AVOID STORAGE IN EXPOSED AREAS TO EXTREMES IN TEMPERATURE. KEEP CONTAINER SEALED WHEN NOT IN USE. STORE PRODUCT IN ORIGINAL SHIPPING CONTAINER

OTHER PRECAUTIONS

RINSE CONTAINER BEFORE DISCARDING.

MATERIAL SAFETY DATA SHEET

DATE:

(ESSENTIALLY SIMILAR TO FORM OSHA-20)

I-PRODUCT INFORMATION			
MANUFACTURED FOR ALPHA DYN CHEMICAL		EMERGENCY PHONE NUMBER (505) 392-7034	
ADDRESS P.O. BOX F #3 BRAND DRIVE HOBBS, N.M. 88240			
FORMULA Proprietary		TRADE NAME 432 PARTS WASHER SOLVENT	
II-HAZARDOUS INGREDIENTS			
	CAS #	% (wt)	TLV (ppm)
Aliphatic Hydrocarbon	8030-30-6	98	
Do not mix this product with anything other than mineral spirits.			
Judgements are based on indirect test data.			
III-PHYSICAL DATA			
BOILING POINT (°F) 327°F		SPECIFIC GRAVITY (H ₂ O = 1) 0.775	
VAPOR PRESSURE (psig) 2		% VOLATILE BY VOLUME 100	
VAPOR DENSITY N/A		EVAPORATION RATE (b. acetate = 1) 5	
SOLUBILITY IN WATER Insoluable		APPEARANCE AND ODOR Clear, blue non-visc. liquid. Solvent odor.	
IV-FIRE & EXPLOSION HAZARD DATA			
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST TCC 116		FLAMMABLE LIMITS Lower Upper	
EXTINGUISHING MEDIA CO₂, dry foam or other smothering medium.			
SPECIAL FIRE FIGHTING PROCEDURES Treat as for class B flammables			
UNUSUAL FIRE & EXPLOSION HAZARDS None			
V-REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

VI-HEALTH HAZARD DATA	
OSHA PERMISSIBLE EXPOSURE LIMIT	
Not established	
EFFECTS OF OVER EXPOSURE	
INHALATION	
Nausea if inhaled for extended periods of time.	
SKIN CONTACT / ABSORPTION	
Drying and defatting of skin.	
INGESTION	
Gastrointestinal irritation.	
EYES	
Eye irritation.	
EMERGENCY AND FIRST AID PROCEDURES	
EYES AND SKIN	Flush eyes with clear water for 15 minutes. Wash skin with soap and water.
INHALATION	Remove to fresh air supply.
INGESTION	Do not induce vomiting. Seek medical attention.
VII-SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Contain spill and absorb with clay or sawdust. Dispose of this waste in authorized landfill site. Wash effected surfaces with detergent and rinse with clear water.	
WASTE DISPOSAL METHOD	
Dispose of waste in a manner cosistant with state and local regulations.	
VIII-SPECIAL PROTECTION INFORMATION	
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
EYE	goggles
SKIN	Rubber gloves if desired
OTHER	Safety lid on tank or vat containers
VENTILATION REQUIREMENTS	
Adequate ventilation	
IX-SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Keep out of the reach of children. Keep container sealed when not in use. Do not use or store near heat or open flame.	
OTHER PRECAUTIONS	
Read product label carefully before using.	

MATERIAL SAFETY DATA SHEET

DATE: MAY 20, 1986

(ESSENTIALLY SIMILAR TO FORM OSHA-20)

I-PRODUCT INFORMATION			
MANUFACTURED FOR		EMERGENCY PHONE NUMBER	
ALPHA DYN CHEMICAL		(505) 392-7034	
ADDRESS		OTHER	
P.O. BOX F #3 BRAND DRIVE		HOBBS, N.M. 88240	
FORMULA		TRADE NAME	
N/A		ALPHA FORMULA 9863 H/D ALKALINE CLEANER	
II-HAZARDOUS INGREDIENTS			
	CAS #	% (wt)	TLV (ppm)
SODIUM HYDROXIDE	1310-73-2		UND.
III-PHYSICAL DATA			
BOILING POINT (°F)		SPECIFIC GRAVITY (H ₂ O = 1)	
NONE		.992	
VAPOR PRESSURE (psig)		% VOLATILE BY VOLUME	
UNDETERMINED		UNDETERMINED	
VAPOR DENSITY		EVAPORATION RATE (= 1)	
UNDETERMINED		UND.	
SOLUBILITY IN WATER		APPEARANCE AND ODOR	
SOLUBLE		OFF WHITE, CHARACTERISTIC	
IV-FIRE & EXPLOSION HAZARD DATA			
FLAMMABILITY AS PER CPSC FLAME EXTENSION TEST		FLAMMABLE LIMITS	
NONE		Lower Upper	
EXTINGUISHING MEDIA		UNDETERMINED	
NORMAL			
SPECIAL FIRE FIGHTING PROCEDURES			
NONE			
UNUSUAL FIRE & EXPLOSION HAZARDS			
NON-FLAMMABLE			
V-REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	XX	
INCOMPATABILITY (Materials to avoid)			
NONE			
HAZARDOUS DECOMPOSITION PRODUCTS			
NONE			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	XX	

VI-HEALTH HAZARD DATA

OSHA PERMISSIBLE EXPOSURE LIMIT
UNDETERMINED

EFFECTS OF OVER EXPOSURE

INHALATION

BREATHING DUST MAY CAUSE IRRITATION

SKIN CONTACT / ABSORPTION

SKIN-CORROSIVE

INGESTION

HARMFUL IF SWALLOWED

EYES

EYES CORROSIVE

EMERGENCY AND FIRST AID PROCEDURES

EYES AND SKIN **SKIN: WASH THOROUGHLY WITH WATER. EYE: WASH WITH WATER FOR AT LEAST 15 MINUTES**

INHALATION

MOVE TO FRESH AIR IMMEDIATELY

INGESTION

GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.

VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SWEEP FLOOR, THEN FLUSH WITH WATER

WASTE DISPOSAL METHOD

NORMAL LOCAL REGULATIONS

VIII-SPECIAL PROTECTION INFORMATION

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

EYE **GOGGLES IF SPLASHING OCCURS**

SKIN **YES**

OTHER **NONE**

VENTILATION REQUIREMENTS

VENTILATION IS RECOMMENDED.

IX-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE IN COOL, DRY PLACE

OTHER PRECAUTIONS

AVOID BREATHING DUST

Description of Proposed Modifications
to Existing Disposal System

IX.

A. This system is a recyclable system. The drain trench will have iron on the sides and bottom with cement on top. The sump will be made of cement. An iron box will be installed so that if a leak occurs it can be visibly detected. The fluid will be sucked out of the sump and will go through an oil separator. The separator will remove the oil from the water. Slop oil will be hauled off by the oil recovery companies. The fluid will then be transferred in the storage tanks which will in turn be circulated through filters, through our steamer, and reused again. This process will continue until the water becomes too aerated to be used. It will then be disposed of away from site in a Class II disposal well. The storage tanks will be enclosed with cinder blocks which will hold one half capacity of both tanks if leaks were to occur. We plan to start construction of the new system in the latter part of August and have it completed by January 1993.

B. The existing system and its cement pits should be ready for closure in January 1993.

Routine Inspection Plan

- X. If approved the recycling system will be inspected on Monday, Wednesday, and Friday. The time and date will be recorded along with persons name doing the inspection. All valves, filters, and fluid lines will be visibly inspected. Filters will be changed as needed. All fluids in our tanks and in slop oil tanks will be measured and recorded. Records will be kept on file for a period of five years. In the event of a leak, O.C.D. will be notified through the Hobbs O.C.D. office or the Santa Fe office.

Spill/Leak Prevention Plan

XI. A. The system we propose to use will have all tanks and steel lines above ground with the exception of the line coming out of the building about 5 feet. This will enable us to detect leaks easily.

The storage tanks will be enclosed with a cinder block fence (as shown in draft). The entire area will be paved and will hold 1/2 the capacity of both tanks. This will keep containment of spilled liquid in the enclosed area in case of a leak. In the event of a spill, O.C.D. will be notified either through the Hobbs or Santa Fe office. All spilled material will be disposed of in an approved Class II injection well.

B. Since all the connections will be above ground, detections will be done visually. The above ground tanks will be done in the same manner. Inspection of the system will be done three times a week. All times and dates will be recorded along with inspection reports.

FIELD ENGR. LOG

WELL RECORD

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

Section 1

0			

(A) Owner of well Star Tool CompanyStreet and Number P. O. Box 2008City HobbsState New Mexico

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

N 1/4 1/4 NW 1/4 NW 1/4 of Section 32 Twp. 18S Rge. 22E(B) Drilling Contractor Abbott BrothersLicense No. ME-46Street and Number P. O. Box 432City HobbsState New MexicoDrilling was commenced March 2,19 66Drilling was completed March 3,19 66

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 125State whether well is shallow or artesian shallow Depth to water upon completion 15

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	<u>44</u>	<u>81</u>	<u>37</u>	<u>water sand</u>
2	<u>81</u>	<u>125</u>	<u>44</u>	<u>coarse water sand</u>
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
<u>2</u>	<u>34</u>	<u>10</u>	<u>0</u>	<u>125</u>	<u>125</u>	<u>open</u>	<u>44</u>	<u>125</u>

Section 4

RECORD OF MUDDING AND CEMENTING

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

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____

Street and Number _____ City _____ State _____

Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____

Plugging method used _____ Date Plugged _____ 19 _____

Plugging approved by: _____

Cement Plugs were placed as follows:

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

STATE ENGINEER OFFICE

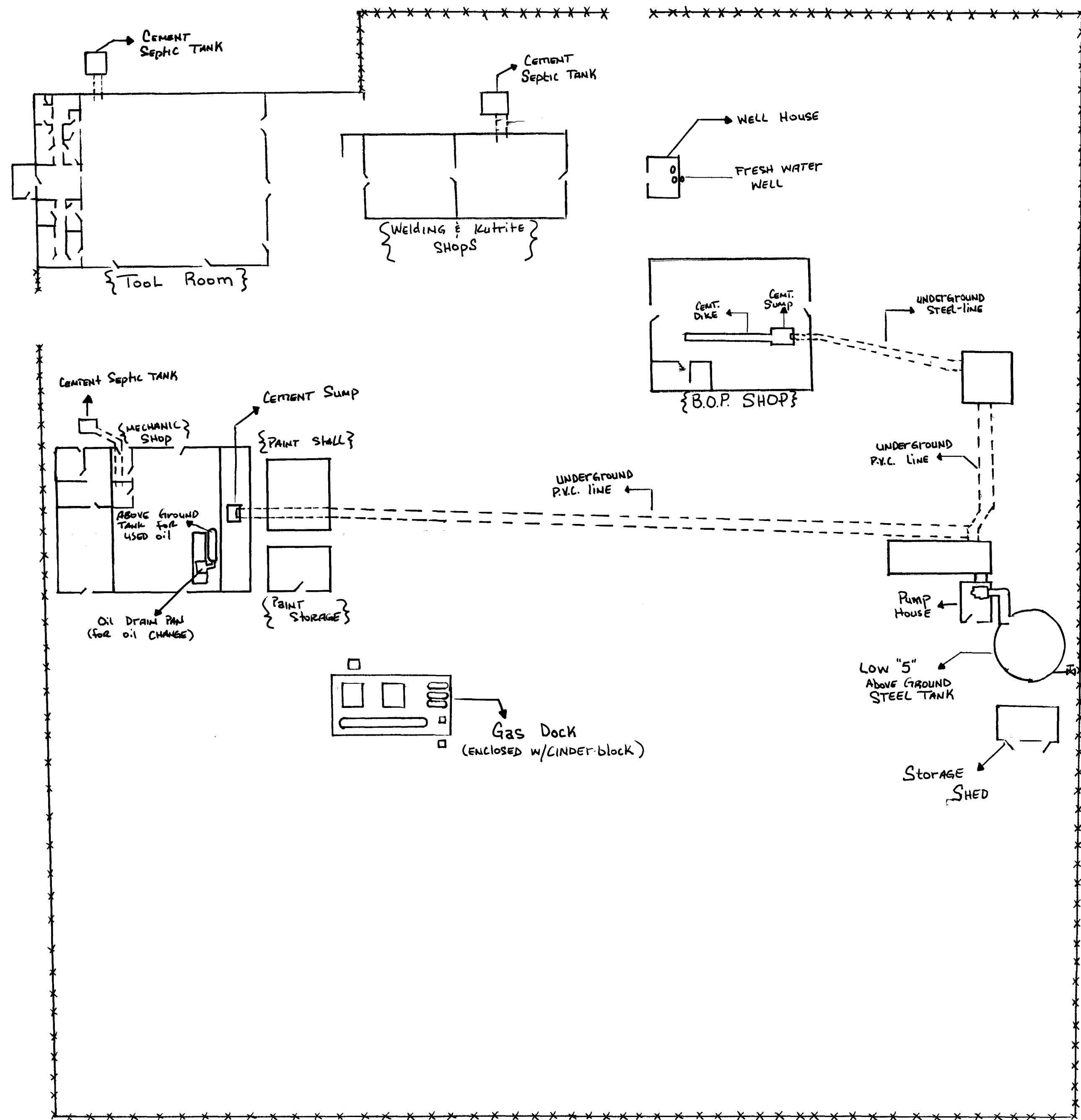
Date Received _____

1966 APR 14 AM 11:25

File No. L-5874

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

Use Cem Location No. 18.38.32.110



Star Tunnel Incubator N311.



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

03/15/91

Environmental Bureau NM Oil D.
PO Box 2088
Santa Fe, NM 87504

Sample Identification: 9102051430 HOBBS AMERICA

Collected By: O/A/B

Date & Time Taken: 02/05/91 1430

On Site Data: STAR TOOL, DISPOSAL WASTE WATER

Other:

TEMP 11.5 DEG C., CONDUCTIVITY(UNCORRECTED) 1000 umho

Lab Sample Number: 181397 Received: 02/11/91

Client: SNM1

PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Alkalinity	210	mg/l as C	1100	02/13/91	EPA Method 310.1	BC
Boron	.079	mg/l	1245	02/13/91	EPA Method 212.3	SW
Bromide	15	mg/l	1100	03/03/91		ES
Cation-Anion Balance	18.0/17.4	meq/meq	0800	03/14/91		SK
Carbonate	<.5	mg/l	1000	02/25/91	APHA Method 263	BC
Chloride	300	mg/l	0945	02/18/91	EPA Method 325.3	SW
Specific Conductance	1679	Micromhos	1020	02/15/91	EPA Method 120.1	GS
Fluoride	3.3	mg/l	1315	02/21/91	EPA Method 340.1	GS
Bicarbonate	200	mg/l	1000	02/25/91	APHA Method 263	BC
Sulfate	220	mg/l	1500	03/06/91	EPA Method 375.4	DG
Total Dissolved Solids	950	mg/l	0900	02/13/91	EPA Method 160.1	BC
pH	7.3	SU	1600	02/14/91	EPA Method 150.1	CJL
Silver	<.03	mg/l	1300	02/14/91	EPA Method 200.7	GK
Aluminum	.2	mg/l	1130	02/19/91	EPA Method 200.7	NT
Arsenic	<.1	mg/l	1300	02/14/91	EPA Method 200.7	GK

Continued

OIL CONSERVATION DIVISION
RECEIVED
91 MAR 13 PM 11 02



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

181397 Continued

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PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Barium	.16	mg/l	1100	02/20/91	EPA Method 200.7	GDG
Beryllium	<.001	mg/l	1300	02/14/91	EPA Method 6010	GK
Dissolved Calcium	160	mg/l	0830	02/15/91	EPA Method 215.1	NT
Cadmium	<.01	mg/l	1300	02/14/91	EPA Method 200.7	GK
Cobalt	<.05	mg/l	2045	02/18/91	EPA Method 6010	GK
Chromium	<.03	mg/l	1300	02/14/91	EPA Method 200.7	GK
Copper	<.03	mg/l	1300	02/14/91	EPA Method 200.7	GK
Dissolved Iron	.06	mg/l	0830	02/15/91	EPA Method 236.1	NT
Dissolved Potassium	6.0	mg/l	0830	02/15/91	EPA Method 258.1	NT
Dissolved Magnesium	25	mg/l	0830	02/15/91	EPA Method 242.1	NT
Manganese	.11	mg/l	0830	02/15/91	EPA Method 6010	NT
Molybdenum	<.2	mg/l	2045	02/18/91	EPA Method 6010	GK
Dissolved Sodium	180	mg/l	0830	02/15/91	EPA Method 273.1	NT
Nickel	<.05	mg/l	1300	02/14/91	EPA Method 200.7	GK
Lead	<.1	mg/l	1300	02/14/91	EPA Method 200.7	GK
Antimony	<.05	mg/l	1300	02/14/91	EPA Method 6010	GK
Selenium	<.1	mg/l	1300	02/14/91	EPA Method 200.7	GK
Silicon (as Silica)	30	mg/l	2045	02/18/91	EPA Method 6010	GK
Thallium	<.1	mg/l	1300	02/14/91	EPA Method 6010	GK
Vanadium	<.05	mg/l	2045	02/18/91	EPA Method 6010	GK
Zinc	.26	mg/l	1300	02/14/91	EPA Method 200.7	GK

Continued



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

181397 Continued

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PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Benzene	<.2	ppb	0800	02/18/91	EPA Method 8020	KB
Ethyl benzene	2	ppb	0800	02/18/91	EPA Method 8020	KB
Toluene	.2	ppb	0800	02/18/91	EPA Method 8020	KB
Xylenes	10	ppb	0800	02/18/91	EPA Method 8020	KB
Acrolein	ND(100) *	ug/l	1341	02/14/91	EPA Method 624	PM
Acrylonitrile	ND(100) *	ug/l	1341	02/14/91	EPA Method 624	PM
Benzene	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Bromoform	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Bromomethane	ND(10) *	ug/l	1341	02/14/91	EPA Method 624	PM
Carbon Tetrachloride	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Chlorobenzene	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Chloroethane	ND(10) *	ug/l	1341	02/14/91	EPA Method 624	PM
2-Chloroethylvinyl ether	ND(10) *	ug/l	1341	02/14/91	EPA Method 624	PM
Chloroform	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Chloromethane	ND(10) *	ug/l	1341	02/14/91	EPA Method 624	PM
Dibromochloromethane	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Bromodichloromethane	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
1,1-Dichloroethane	ND(5) *	ug/l	1341	02/14/91	EPA Method 8240	PM
1,2-Dichloroethane	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
1,1-Dichloroethene	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
trans-1,2-Dichloroethene	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM

Continued



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

Quality Assurance for the SET with Sample 181397

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Standard	70	mg/l	71		101	0945	02/18/91	SW
181594	Duplicate	23	mg/l	23		100	0945	02/18/91	SW
181594	Spike		mg/l		100	100	0945	02/18/91	SW
Specific Conductance									
	Standard	1423	Micromhos	1413		101	1020	02/15/91	GS
181397	Duplicate	1681	Micromhos	1677		100	1020	02/15/91	GS
Fluoride									
181397	Spike		mg/l		.5	96	1315	02/21/91	GS
Sulfate									
	Standard	98	mg/l	100		102	1500	03/06/91	DG
181397	Duplicate	230	mg/l	200		114	1500	03/06/91	DG
Total Dissolved Solids									
	Blank	.0001	gms				0900	02/13/91	BC
	Standard	100	mg/l	90		111	0900	02/13/91	BC
pH									
	Standard	Calibrate	SU	7.0			1600	02/14/91	CJL
	Standard	Calibrate	SU	4.0			1600	02/14/91	CJL
	Standard	6.0	SU	6.0		100	1600	02/14/91	CJL
Silver									
	Blank	<.03	mg/l				1300	02/14/91	GK
	Standard	.21	mg/l	.20		105	1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
181401	Duplicate	<.03	mg/l	<.03		100	1300	02/14/91	GK
181401	Spike		mg/l		.20	80	1300	02/14/91	GK
Aluminum									
	Blank	<.1	mg/l				1130	02/19/91	NT
	Blank	<.1	mg/l				1130	02/19/91	NT
	Standard	1.0	mg/l	1.0		100	1130	02/19/91	NT
	Standard	5.1	mg/l	5.0		102	1130	02/19/91	NT
181397	Duplicate	.2	mg/l	.2		100	1130	02/19/91	NT
181401	Spike		mg/l		1.0	99	1130	02/19/91	NT
Arsenic									
	Blank	<.1	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	5.0	mg/l	5.0		100	1300	02/14/91	GK
181401	Duplicate	.69	mg/l	.71		103	1300	02/14/91	GK
181401	Spike		mg/l		1.7	92	1300	02/14/91	GK
Barium									
	Blank	<.05	mg/l				1100	02/20/91	GDG
	Blank	<.05	mg/l				1100	02/20/91	GDG
	Standard	1.0	mg/l	1.0		100	1100	02/20/91	GDG
	Standard	5.1	mg/l	5.0		102	1100	02/20/91	GDG
181397	Duplicate	.17	mg/l	.16		106	1100	02/20/91	GDG

Dissolved Potassium



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Analytical Chemistry • Utility Operations • Equipment Sales

Quality Assurance for the SET with Sample 181397

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
181397	Blank	<2	mg/l				0830	02/15/91	NT
	Standard	9.8	mg/l	10		102	0830	02/15/91	NT
	Standard	48	mg/l	50		104	0830	02/15/91	NT
	Duplicate	6.0	mg/l	5.9		102	0830	02/15/91	NT
	Spike		mg/l		2.0	87	0830	02/15/91	NT
Dissolved Magnesium									
181397	Blank	<.01	mg/l				0830	02/15/91	NT
	Standard	10	mg/l	10		100	0830	02/15/91	NT
	Standard	50	mg/l	50		100	0830	02/15/91	NT
	Duplicate	25	mg/l	25		100	0830	02/15/91	NT
	Spike		mg/l		20	92	0830	02/15/91	NT
Manganese									
181401	Blank	<.01	mg/l				0830	02/15/91	NT
	Standard	1.0	mg/l	1.0		100	0830	02/15/91	NT
	Standard	5.1	mg/l	5.0		102	0830	02/15/91	NT
	Duplicate	.26	mg/l	.26		100	0830	02/15/91	NT
	Spike		mg/l		1.0	95	0830	02/15/91	NT
Molybdenum									
181397	Blank	<.2	mg/l				2045	02/18/91	GK
	Standard	10	mg/l	10		100	2045	02/18/91	GK
	Duplicate	<.2	mg/l	<.2		100	2045	02/18/91	GK
	Duplicate	<.2	mg/l	<.2		100	2045	02/18/91	GK
	Spike		mg/l		2.0	87	2045	02/18/91	GK
Dissolved Sodium									
181397	Blank	<1	mg/l				0830	02/15/91	NT
	Standard	9.8	mg/l	10		102	0830	02/15/91	NT
	Standard	50	mg/l	50		100	0830	02/15/91	NT
	Duplicate	170	mg/l	180		106	0830	02/15/91	NT
	Spike		mg/l		20	93	0830	02/15/91	NT
Nickel									
181401	Blank	<.05	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	5.0	mg/l	5.0		100	1300	02/14/91	GK
	Duplicate	<.05	mg/l	<.05		100	1300	02/14/91	GK
Antimony									
181401	Blank	<.05	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	5.0	mg/l	5.0		100	1300	02/14/91	GK
	Duplicate	<.05	mg/l	<.05		100	1300	02/14/91	GK
Selenium									
	Blank	<.1	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	5.1	mg/l	5.0		102	1300	02/14/91	GK



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

Quality Assurance for the SET with Sample 181397

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
181401	Duplicate	<.1	mg/l	<.1		100	1300	02/14/91	GK
				Silicon (as Silica)					
	Blank	.1	mg/l				2045	02/18/91	GK
	Standard	10	mg/l	10		100	2045	02/18/91	GK
181401	Duplicate	34	mg/l	34		100	2045	02/18/91	GK
181397	Duplicate	29	mg/l	30		103	2045	02/18/91	GK
181401	Spike		mg/l		2.0	105	2045	02/18/91	GK
				Thallium					
	Blank	<.1	mg/l				1300	02/14/91	GK
	Standard	1.1	mg/l	1.0		110	1300	02/14/91	GK
	Standard	5.2	mg/l	5.0		104	1300	02/14/91	GK
181401	Duplicate	<.1	mg/l	<.1		100	1300	02/14/91	GK
				Vanadium					
	Blank	<.05	mg/l				2045	02/18/91	GK
	Standard	1.0	mg/l	1.0		100	2045	02/18/91	GK
	Standard	5.0	mg/l	5.0		100	2045	02/18/91	GK
181397	Duplicate	<.05	mg/l	<.05		100	2045	02/18/91	GK
181401	Duplicate	<.05	mg/l	<.05		100	2045	02/18/91	GK
181401	Spike		mg/l		1.0	88	2045	02/18/91	GK
				Zinc					
	Blank	<.01	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	4.9	mg/l	5.0		102	1300	02/14/91	GK
181401	Duplicate	.03	mg/l	.03		100	1300	02/14/91	GK
181401	Spike		mg/l		1.0	87	1300	02/14/91	GK
				Benzene					
	Blank	<5	ppb				0800	02/18/91	KB
	Standard	68	ppb	50			0800	02/18/91	KB
181438	Duplicate	<5	ppb	<5		100	0800	02/18/91	KB
181438	Spike		ppb		50	103	0800	02/18/91	KB
				Ethyl benzene					
	Blank	<5	ppb				0800	02/18/91	KB
	Standard	66	ppb	50			0800	02/18/91	KB
181438	Duplicate	<5	ppb	<5		100	0800	02/18/91	KB
181438	Spike		ppb		50	99	0800	02/18/91	KB
				Toluene					
	Blank	<5	ppb				0800	02/18/91	KB
	Standard	66	ppb	50			0800	02/18/91	KB
181438	Duplicate	<5	ppb	<5		100	0800	02/18/91	KB
181438	Spike		ppb		50	104	0800	02/18/91	KB
				Xylenes					
	Blank	<5	ppb				0800	02/18/91	KB
	Standard	73	ppb	50			0800	02/18/91	KB




2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

Quality Assurance for the SET with Sample 181397

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
181438	Duplicate	<5	ppb	<5		100	0800	02/18/91	KB
181438	Spike		ppb		50	98	0800	02/18/91	KB

I hereby certify that these results were obtained using the methods specified in this report.


C. H. Whiteside, Ph.D., President

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 19
903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

03/14/91

Environmental Bureau NM Oil D.
PO Box 2088
Santa Fe, NM 87504

Sample Identification: 9102051430 HOBBS AMERICA

Collected By: O/A/B

Date & Time Taken: 02/05/91 1430

On Site Data: STAR TOOL, DISPOSAL WASTE WATER

Other:

TEMP 11.5 DEG C., CONDUCTIVITY(UNCORRECTED) 1000 umho

OIL CONSERVATION DIVISION
RECEIVED
'91 MAR 19 AM 11 02

Lab Sample Number: 181397 Received: 02/11/91

Client: SNM1

PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Alkalinity	210	mg/l as C	1100	02/13/91	EPA Method 310.1	BC
Boron	.079	mg/l	1245	02/13/91	EPA Method 212.3	SW
Bromide	15	mg/l	1100	03/03/91		ES
Cation-Anion Balance	18.0/17.4	meq/meq	0800	03/14/91		SK
Carbonate	<.5	mg/l	1000	02/25/91	APHA Method 263	BC
Chloride	300	mg/l	0945	02/18/91	EPA Method 325.3	SW
Specific Conductance	1679	Micromhos	1020	02/15/91	EPA Method 120.1	GS
Fluoride	3.3	mg/l	1315	02/21/91	EPA Method 340.1	GS
Bicarbonate	200	mg/l	1000	02/25/91	APHA Method 263	BC
Sulfate	220	mg/l	1500	03/06/91	EPA Method 375.4	DG
Total Dissolved Solids	950	mg/l	0900	02/13/91	EPA Method 160.1	BC
pH	7.3	SU	1600	02/14/91	EPA Method 150.1	CJL
Silver	<.03	mg/l	1300	02/14/91	EPA Method 200.7	GK
Aluminum	.2	mg/l	1130	02/19/91	EPA Method 200.7	NT
Arsenic	<.1	mg/l	1300	02/14/91	EPA Method 200.7	GK

Continued



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

181397 Continued

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PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Barium	.16	mg/l	1100	02/20/91	EPA Method 200.7	GDG
Beryllium	<.001	mg/l	1300	02/14/91	EPA Method 6010	GK
Dissolved Calcium	160	mg/l	0830	02/15/91	EPA Method 215.1	NT
Cadmium	<.01	mg/l	1300	02/14/91	EPA Method 200.7	GK
Cobalt	<.05	mg/l	2045	02/18/91	EPA Method 6010	GK
Chromium	<.03	mg/l	1300	02/14/91	EPA Method 200.7	GK
Copper	<.03	mg/l	1300	02/14/91	EPA Method 200.7	GK
Dissolved Iron	.06	mg/l	0830	02/15/91	EPA Method 236.1	NT
Dissolved Potassium	6.0	mg/l	0830	02/15/91	EPA Method 258.1	NT
Dissolved Magnesium	25	mg/l	0830	02/15/91	EPA Method 242.1	NT
Manganese	.11	mg/l	0830	02/15/91	EPA Method 6010	NT
Molybdenum	<.2	mg/l	2045	02/18/91	EPA Method 6010	GK
Dissolved Sodium	180	mg/l	0830	02/15/91	EPA Method 273.1	NT
Nickel	<.05	mg/l	1300	02/14/91	EPA Method 200.7	GK
Lead	<.1	mg/l	1300	02/14/91	EPA Method 200.7	GK
Antimony	<.05	mg/l	1300	02/14/91	EPA Method 6010	GK
Selenium	<.1	mg/l	1300	02/14/91	EPA Method 200.7	GK
Silicon (as Silica)	30	mg/l	2045	02/18/91	EPA Method 6010	GK
Thallium	<.1	mg/l	1300	02/14/91	EPA Method 6010	GK
Vanadium	<.05	mg/l	2045	02/18/91	EPA Method 6010	GK
Zinc	.26	mg/l	1300	02/14/91	EPA Method 200.7	GK

Continued



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

181397 Continued

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PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Benzene	<.2	ppb	0800	02/18/91	EPA Method 8020	KB
Ethyl benzene	2	ppb	0800	02/18/91	EPA Method 8020	KB
Toluene	.2	ppb	0800	02/18/91	EPA Method 8020	KB
Xylenes	10	ppb	0800	02/18/91	EPA Method 8020	KB
Acrolein	ND(100) *	ug/l	1341	02/14/91	EPA Method 624	PM
Acrylonitrile	ND(100) *	ug/l	1341	02/14/91	EPA Method 624	PM
Benzene	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Bromoform	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Bromomethane	ND(10) *	ug/l	1341	02/14/91	EPA Method 624	PM
Carbon Tetrachloride	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Chlorobenzene	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Chloroethane	ND(10) *	ug/l	1341	02/14/91	EPA Method 624	PM
2-Chloroethylvinyl ether	ND(10) *	ug/l	1341	02/14/91	EPA Method 624	PM
Chloroform	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Chloromethane	ND(10) *	ug/l	1341	02/14/91	EPA Method 624	PM
Dibromochloromethane	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
Bromodichloromethane	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
1,1-Dichloroethane	ND(5) *	ug/l	1341	02/14/91	EPA Method 8240	PM
1,2-Dichloroethane	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
1,1-Dichloroethene	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM
trans-1,2-Dichloroethene	ND(5) *	ug/l	1341	02/14/91	EPA Method 624	PM

Continued



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

Quality Assurance for the SET with Sample 181397

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Standard	70	mg/l	71		101	0945	02/18/91	SW
181594	Duplicate	23	mg/l	23		100	0945	02/18/91	SW
181594	Spike		mg/l		100	100	0945	02/18/91	SW
Specific Conductance									
	Standard	1423	Micromhos	1413		101	1020	02/15/91	GS
181397	Duplicate	1681	Micromhos	1677		100	1020	02/15/91	GS
Fluoride									
181397	Spike		mg/l		.5	96	1315	02/21/91	GS
Sulfate									
	Standard	98	mg/l	100		102	1500	03/06/91	DG
181397	Duplicate	230	mg/l	200		114	1500	03/06/91	DG
Total Dissolved Solids									
	Blank	.0001	gms				0900	02/13/91	BC
	Standard	100	mg/l	90		111	0900	02/13/91	BC
pH									
	Standard	Calibrate	SU	7.0			1600	02/14/91	CJL
	Standard	Calibrate	SU	4.0			1600	02/14/91	CJL
	Standard	6.0	SU	6.0		100	1600	02/14/91	CJL
Silver									
	Blank	<.03	mg/l				1300	02/14/91	GK
	Standard	.21	mg/l	.20		105	1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
181401	Duplicate	<.03	mg/l	<.03		100	1300	02/14/91	GK
181401	Spike		mg/l		.20	80	1300	02/14/91	GK
Aluminum									
	Blank	<.1	mg/l				1130	02/19/91	NT
	Blank	<.1	mg/l				1130	02/19/91	NT
	Standard	1.0	mg/l	1.0		100	1130	02/19/91	NT
	Standard	5.1	mg/l	5.0		102	1130	02/19/91	NT
181397	Duplicate	.2	mg/l	.2		100	1130	02/19/91	NT
181401	Spike		mg/l		1.0	99	1130	02/19/91	NT
Arsenic									
	Blank	<.1	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	5.0	mg/l	5.0		100	1300	02/14/91	GK
181401	Duplicate	.69	mg/l	.71		103	1300	02/14/91	GK
181401	Spike		mg/l		1.7	92	1300	02/14/91	GK
Barium									
	Blank	<.05	mg/l				1100	02/20/91	GDG
	Blank	<.05	mg/l				1100	02/20/91	GDG
	Standard	1.0	mg/l	1.0		100	1100	02/20/91	GDG
	Standard	5.1	mg/l	5.0		102	1100	02/20/91	GDG
181397	Duplicate	.17	mg/l	.16		106	1100	02/20/91	GDG

Dissolved Potassium



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Analytical Chemistry • Utility Operations • Equipment Sales

Quality Assurance for the SET with Sample 181397

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	<2	mg/l				0830	02/15/91	NT
	Standard	9.8	mg/l	10		102	0830	02/15/91	NT
	Standard	48	mg/l	50		104	0830	02/15/91	NT
181397	Duplicate	6.0	mg/l	5.9		102	0830	02/15/91	NT
181399	Spike		mg/l		2.0	87	0830	02/15/91	NT
Dissolved Magnesium									
	Blank	<.01	mg/l				0830	02/15/91	NT
	Standard	10	mg/l	10		100	0830	02/15/91	NT
	Standard	50	mg/l	50		100	0830	02/15/91	NT
181397	Duplicate	25	mg/l	25		100	0830	02/15/91	NT
181399	Spike		mg/l		20	92	0830	02/15/91	NT
Manganese									
	Blank	<.01	mg/l				0830	02/15/91	NT
	Standard	1.0	mg/l	1.0		100	0830	02/15/91	NT
	Standard	5.1	mg/l	5.0		102	0830	02/15/91	NT
181401	Duplicate	.26	mg/l	.26		100	0830	02/15/91	NT
181401	Spike		mg/l		1.0	95	0830	02/15/91	NT
Molybdenum									
	Blank	<.2	mg/l				2045	02/18/91	GK
	Standard	10	mg/l	10		100	2045	02/18/91	GK
181397	Duplicate	<.2	mg/l	<.2		100	2045	02/18/91	GK
181401	Duplicate	<.2	mg/l	<.2		100	2045	02/18/91	GK
181401	Spike		mg/l		2.0	87	2045	02/18/91	GK
Dissolved Sodium									
	Blank	<1	mg/l				0830	02/15/91	NT
	Standard	9.8	mg/l	10		102	0830	02/15/91	NT
	Standard	50	mg/l	50		100	0830	02/15/91	NT
181397	Duplicate	170	mg/l	180		106	0830	02/15/91	NT
181399	Spike		mg/l		20	93	0830	02/15/91	NT
Nickel									
	Blank	<.05	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	5.0	mg/l	5.0		100	1300	02/14/91	GK
181401	Duplicate	<.05	mg/l	<.05		100	1300	02/14/91	GK
Antimony									
	Blank	<.05	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	5.0	mg/l	5.0		100	1300	02/14/91	GK
181401	Duplicate	<.05	mg/l	<.05		100	1300	02/14/91	GK
Selenium									
	Blank	<.1	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	5.1	mg/l	5.0		102	1300	02/14/91	GK



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Analytical Chemistry • Utility Operations • Equipment Sales

Quality Assurance for the SET with Sample 181397

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
181401	Duplicate	<.1	mg/l	<.1		100	1300	02/14/91	GK
				Silicon (as Silica)					
	Blank	.1	mg/l				2045	02/18/91	GK
	Standard	10	mg/l	10		100	2045	02/18/91	GK
181401	Duplicate	34	mg/l	34		100	2045	02/18/91	GK
181397	Duplicate	29	mg/l	30		103	2045	02/18/91	GK
181401	Spike		mg/l		2.0	105	2045	02/18/91	GK
				Thallium					
	Blank	<.1	mg/l				1300	02/14/91	GK
	Standard	1.1	mg/l	1.0		110	1300	02/14/91	GK
	Standard	5.2	mg/l	5.0		104	1300	02/14/91	GK
181401	Duplicate	<.1	mg/l	<.1		100	1300	02/14/91	GK
				Vanadium					
	Blank	<.05	mg/l				2045	02/18/91	GK
	Standard	1.0	mg/l	1.0		100	2045	02/18/91	GK
	Standard	5.0	mg/l	5.0		100	2045	02/18/91	GK
181397	Duplicate	<.05	mg/l	<.05		100	2045	02/18/91	GK
181401	Duplicate	<.05	mg/l	<.05		100	2045	02/18/91	GK
181401	Spike		mg/l		1.0	88	2045	02/18/91	GK
				Zinc					
	Blank	<.01	mg/l				1300	02/14/91	GK
	Standard	1.0	mg/l	1.0		100	1300	02/14/91	GK
	Standard	4.9	mg/l	5.0		102	1300	02/14/91	GK
181401	Duplicate	.03	mg/l	.03		100	1300	02/14/91	GK
181401	Spike		mg/l		1.0	87	1300	02/14/91	GK
				Benzene					
	Blank	<5	ppb				0800	02/18/91	KB
	Standard	68	ppb	50			0800	02/18/91	KB
181438	Duplicate	<5	ppb	<5		100	0800	02/18/91	KB
181438	Spike		ppb		50	103	0800	02/18/91	KB
				Ethyl benzene					
	Blank	<5	ppb				0800	02/18/91	KB
	Standard	66	ppb	50			0800	02/18/91	KB
181438	Duplicate	<5	ppb	<5		100	0800	02/18/91	KB
181438	Spike		ppb		50	99	0800	02/18/91	KB
				Toluene					
	Blank	<5	ppb				0800	02/18/91	KB
	Standard	66	ppb	50			0800	02/18/91	KB
181438	Duplicate	<5	ppb	<5		100	0800	02/18/91	KB
181438	Spike		ppb		50	104	0800	02/18/91	KB
				Xylenes					
	Blank	<5	ppb				0800	02/18/91	KB
	Standard	73	ppb	50			0800	02/18/91	KB



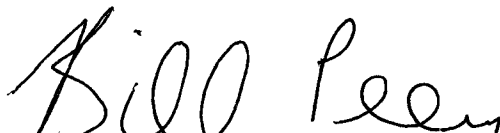
2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551

Analytical Chemistry • Utility Operations • Equipment Sales

Quality Assurance for the SET with Sample 181397

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
181438	Duplicate	<5	ppb	<5		100	0800	02/18/91	KB
181438	Spike		ppb		50	98	0800	02/18/91	KB

I hereby certify that these results were obtained using the methods specified in this report.


C. H. Whiteside, Ph.D., President



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

BRUCE KING
GOVERNOR

February 26, 1991

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-327-278-327

Mr. David Taylor, Manager
Star Tool Company
Box 2008
Hobbs, New Mexico 88240

RE: Discharge Plan GW-76
Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Taylor:

Under the provisions of the Water Quality Control Commission (WQCC) Regulations, you are hereby notified that the filing of a discharge plan is required for your existing Hobbs Service Facility located in Section 32, Township 18 South, Range 38 East (NMPM), Lea County, New Mexico.

This notification of discharge plan requirement is pursuant to Sections 3-104 and 3-106 of the WQCC Regulations. The discharge plan, defined in Section 1.101.P. of the WQCC Regulations, should cover all discharges of effluent or leachate at the plant site or adjacent to the plant site. Included in the application should be plans for controlling spills and accidental discharges at the facility (including detection of leaks in buried underground tanks and/or piping), and closure plans for any ponds whose use will be discontinued.

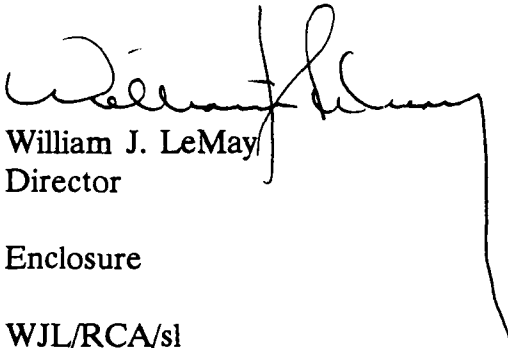
A copy of the regulations and application form is enclosed for your convenience. Also enclosed is a copy of an OCD guide to the preparation of discharge plans for oilfield service facilities.

Mr. David Taylor
February 26, 1991
Page -2-

Section 3-106.A of the regulations requires a submittal of the discharge plan within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Section 3-106.A also allows the discharge to continue without an approved discharge plan until 240 days after written notification by the Director of the OCD that a discharge plan is required. An extension of this time may be sought and approved for good cause.

If there are any questions on this matter, please feel free to call David Boyer at 827-5812, or Roger Anderson at 827-5884 as they have the assigned responsibility for review of all discharge plans.

Sincerely,



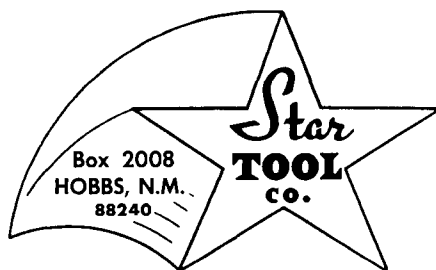
William J. LeMay
Director

Enclosure

WJL/RCA/sl

cc: Hobbs OCD Office

91 JAN 10 AM 8 50
DIVISION



PHONES: (505) 397-1533 -- 393-2643

January 07, 1991

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, NM 87501

To Whom It May Concern;

The diagram we are sending you explains Star Tool Company's current liquid waste collection and disposal procedures. As our low "5" steel tank is full we have it hauled off to a disposal well.

The liquid waste consists of fresh water with biodegradeable soap, degreaser, oil, & other B. S. that is steamed off of our Blowout Preventers and various fishing tools.

The sumps, open top pit and septic tanks are all made out of cement. We ask that you look over the diagram to see if the procedure we are using at the present time is adequate.

If you have any suggestions that would be helpful we would be greatly appreciative.

Thank You,

Oscar Molina

Enc.

ss

