

GW - 126

**GENERAL
CORRESPONDENCE**

YEAR(S):

2002 - 1992

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 6/13/02
or cash received on 9/4/02 in the amount of \$ 1,700.00
from WEATHERFORD
for _____

Submitted by: _____ Date: _____
Submitted to ASD by: Ed Martin Date: _____
Received in ASD by: _____ Date: _____

Filing Fee New Facility _____ Renewal _____
Modification _____ Other _____

Organization Code 521.07 Applicable FY 2003
~~2001~~

To be deposited in the Water Quality Management Fund.
Full Payment or Annual Increment _____

Weatherford

THE CHASE MANHATTAN BANK, N.A.
SYRACUSE, NEW YORK

No. [REDACTED]

06 | 13 | 02

Pay Exactly *****1,700DOLLARS*AND*00*CENTS

\$ *****1,700.00

VOID AFTER 90 DAYS

TO THE ORDER OF WATER MANAGEMENT
QUALITY MANAGEMENT FUND
1220 SOUTH ST. FRANCIS DR.
SANTA FE NM 87505

Jose W. Rodriguez

BORDER CONTAINS MICROPRINTING

6/13/02

No. [REDACTED]

INVOICE DATE	INVOICE NUMBER	DESCRIPTION	NET AMOUNT
6/11/02	061102		1,700.00
	GW-126		

TOTALS \$ 1,700.00

QUALITY MANAGEMENT FUND
SANTA FE NM 87505

AFFIDAVIT OF PUBLICATION

Ad No. 46017

**STATE OF NEW MEXICO
County of San Juan:**

CONNIE PRUITT, being duly sworn says:
That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):
Thursday, April 25, 2002.

And the cost of the publication is \$92.40

Connie Pruitt

ON 5-7-02 CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

Annun Beck
My Commission Expires April 2, 2004.

COPY OF PUBLICATION

918

Legals

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3200:

(GW-126) - Weatherford US, LP, Mr. Joe Dandy, 5432 Highway 64, Farmington, New Mexico 87401, has submitted a discharge plan renewal application for their 5423 Highway 64 Farmington Service facility located in the SW/4 NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 8 gallons per day of waste water will be stored in a closed top receptacle prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentration of approximately 600 to 900 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

(GW-347) - Weatherford US, LP, Mr. Ronald Long, 2803 Inland Street, Farmington, New Mexico 87401, has submitted a discharge plan application for their Farmington 2 Service facilities located at 2803 Inland Street in the SW/4 NE/4, Section 7, Township 29 North

918

Legals Cont.

Range 13 West and 514 East Animas Street in the SE/4 NW/4, Section 15, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. At the 2803 Inland Street site approximately 20 gallons per month of wash waste water will be stored in a receptacle for evaporation of water with solids prior to transport to an OCD approved off-site disposal facility. At the 514 East Animas Street site approximately 120 gallons per day of wash waste water is disposed of via sewer connection to the Farmington Waste Water Treatment Facility. Groundwater most likely to be affected by an accidental discharge is at a depth ranging from approximately 10 feet to 30 feet with a total dissolved solids concentration of approximately 600 to 900 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 17th day of April 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL
LORI WROTENBERY, Director

Legal No. 46017, published in The Daily Times, Farmington, New Mexico, Thursday, April 25, 2002.

NOTICE OF PUBLICATION

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ENERGY, MINERALS
AND NATURAL
RESOURCES
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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 17th day of April 2002.

STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION

SEAL
LORI WROTENBERY, Director
Legal #71309
Pub. April 29, 2002

*Published
4/29*

Ford, Jack

From: Martin, Ed
Sent: Tuesday, April 23, 2002 11:38 AM
To: Farmington Daily Times (E-mail)
Cc: Ford, Jack; Anaya, Mary
Subject: Legal Notice

Please publish the attached legal notice, one time only, on or before Monday, April 29, 2002.
Upon publication, please forward to this office:

1. Publisher's affidavit
2. Invoice. Our purchase order number is **02199000251**

If you have any questions, please contact me.

Thank you.



Publ. Notice
GW-126,127.doc

Ed Martin

Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: (505) 476-3492
Fax: (505) 476-3471

Ford, Jack

From: Martin, Ed
Sent: Tuesday, April 23, 2002 11:36 AM
To: Santa Fe New Mexican (E-mail)
Cc: Ford, Jack; Anaya, Mary; Bruce S. Garber; Chris Shuey; Colin Adams; Director, State Parks; Don Neeper; Eddie Seay; Gerald R. Zimmerman; Jack A. Barnett; James Bearzi; Jay Lazarus; Lee Wilson & Associates; Marcy Leavitt; Mike Matush; Mike Schultz; Ned Kendrick; Regional Forester; Ron Dutton; Secretary, NMED
Subject: Legal Notice

Please publish the attached legal notice, one time only, on or before Monday, April 29, 2002.
Upon publication, please send to this office:

1. Publisher's affidavit
2. Invoice. Our purchase order number is **02199000249**

If you have any questions, please contact me.

Thank you.



Publ. Notice
GW-126,127.doc

Ed Martin

Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: (505) 476-3492
Fax: (505) 476-3471

NOTICE OF PUBLICATION

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

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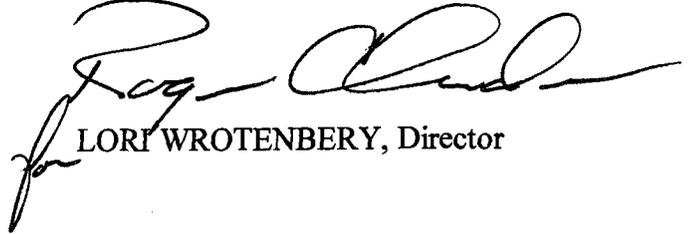
Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above.

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

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 17th day of April 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read "Lori Wrottenbery", written over the printed name.

LORI WROTENBERY, Director

SEAL



Wilson Environmental Management, Inc.

PO Box 841081 • Houston, Texas 77284-1081

April 3, 2002

RECEIVED

APR 09 2002

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

Environmental Bureau
Oil Conservation Division

Re: Discharge Plan Renewal GW-126 for Weatherford U.S., L.P. Located at 5432 Highway 64, Farmington, New Mexico, and A New Discharge Plan Submittal for the Two Weatherford Sites Located at 2803 Inland Street and 514 East Animas Street, Farmington, New Mexico

OCD Discharge Plan # GW-126 ----

Dear Mr. Ford:

Wilson Environmental Management, Inc. is pleased to submit this Discharge Plan and Renewal for Weatherford U.S., L.P. Weatherford personnel have reviewed these plans and have given their approval for their submission. The plan renewal has changes and additions from the original plan in the following areas:

- SEC. 2 Name of operator,
- SEC. 5 Location of Containment structures, Diesel Fuel Tank, Containment Structures and Yard Use,
- SEC. 6 Some minor changes in chemical lists, New chemicals are on the Bottom,
- SEC. 7 New Wash Water Recycle System,
- SEC. 8 Wash Water Recycle System, Used Oil disposed by Mesa Oil Inc,
- SEC. 9 Weatherford Proposes using Safety Kleen 's vacuum truck service to collect and transport the sump sludge for disposal,
- SEC. 10 Maintenance and inspection check off sheet,
- SEC. 11 Minor wording changes.

Weatherford has included a \$ 200.00 check for the filing fees for both plans with this submission. Weatherford's environmental office in Houston, Texas will handle the flat fees for oil and gas field service facilities. A copy of the renewal, plan and this letter have been sent to the OCD District III Office in Aztec, NM to the attention of Mr. Denny Foust.

Wilson has appreciated the timely assistance received from NM OCD personnel in preparing this plan and renewal. If there are any questions or comments regarding the plans please contact CB Jacobson at (801) 377-4532.

Sincerely,

WILSON ENVIRONMENTAL MANAGEMENT, Inc.



CB Jacobson
Project Manager

Attn.

CC. Denny Foust, OCD Aztec Office
Joe Dandy, Weatherford U.S., L.P.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

May 29, 2002

Lori Wrotenberg
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 7877

Mr. Joe Dandy
Weatherford USLP
5432 Highway 64
Farmington, New Mexico 87401

**RE: Discharge Plan Renewal Approval GW-126
Weatherford USLP
Farmington Service Facility, 5432 Highway 64
San Juan County, New Mexico**

Dear Mr. Dandy:

The ground water discharge plan renewal GW-126 for the Weatherford USLP Farmington Service Facility, 5432 Highway 64, located in the SW/4 NW/4 of Section 19, Township 29 North, Range 12 West, NMPM, San Juan 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 15, 1992 and approved August 19, 1992. The discharge plan renewal application, dated March 28, 2002, was submitted pursuant to Sections 5101.B.3. of the New Mexico Water Quality Control Commission (WQCC) Regulations. The discharge plan is renewed pursuant to Sections 5101.A. and 3109.C. 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 Weatherford USLP 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., Weatherford USLP 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.

Mr. Joe Dandy
GW-126 Farmington Service Facility, 5432 Highway 64
May 29, 2002
Page 2

Pursuant to Section 3109.H.4., this discharge plan is for a period of five years. This plan will expire on **August 19, 2007**, and Weatherford USLP 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 .

Proposed modifications consisting of a new maintenance facility, office area and cement testing area is herewith approved.

The discharge plan application for the Weatherford USLP Farmington Service Facility is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal 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 service companies equal to \$1,700.00. 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 Aztec District Office

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

OFFICIAL USE	
Postage \$	
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage Fees	
Sent To	
Street, Apt. No. or PO Box No.	87505 Weatherford
City, State, ZIP+4	GW-126

Postmark Here
MAY 29 2002

7877 6296 4000 0451 1002

ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-126
WEATHERFORD USLP
FARMINGTON SERVICE FACILITY, 5432 HIGHWAY 64
DISCHARGE PLAN APPROVAL CONDITIONS
(May 29, 2002)

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 companies equal to \$1,700.00. 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. Weatherford USLP Commitments: Weatherford USLP will abide by all commitments submitted in the discharge plan renewal application dated March 28, 2002 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.
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 by a Weatherford USLP's representative on a regular basis and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained 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 Aztec 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 Farmington Service Facility are discontinued for a period in excess of six months. Prior to closure of the Farmington 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: Weatherford USLP, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Weatherford USLP 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:

WEATHERFORD USLP

by _____
Title

NOTICE OF PUBLICATION

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

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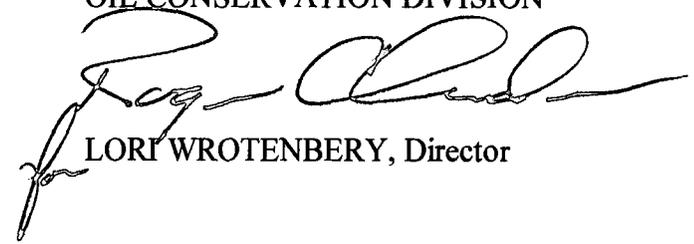
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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 17th day of April 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



LORI WROTENBERY, Director

SEAL



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

February 25, 2002

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 7549

Mr. Scott Robinson
Weatherford Enterra US, LMTD
515 Post Oak Boulevard, Suite 600
Houston, Texas 77027

RE: Discharge Plan Renewal Notice for Weatherford Enterra US, LMTD Facility

Dear Mr. Robinson:

The OCD is providing Weatherford Enterra US, LMTD a six months notice that the following discharge plan expires.

GW-126 expires 8/19/2002 – Farmington Service Facility

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

The discharge plan renewal application for each of the above facilities is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$100.00 plus a flat fee of \$1,700.00 for oil and gas field service company facilities. The \$100.00 filing fees is are be submitted with the discharge plan renewal applications and are nonrefundable.

Mr. Scott Robinson
December 12, 2001
Page 2

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office. Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** (Copies of the WQCC regulations and discharge plan application form and guidelines are enclosed to aid you in preparing the renewal application. A complete copy of the regulations is also available on OCD's website at www.emnrd.state.nm.us/oed/).

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 Weatherford Enterra US, LMTD has any questions, please do not hesitate to contact Mr. W. Jack Ford at (505) 476-3489.

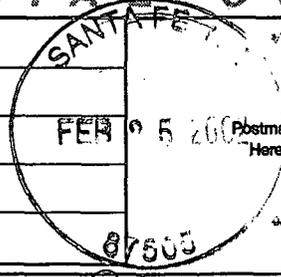
Sincerely,


Roger C. Anderson
Oil Conservation Division

cc: OCD Aztec District Office

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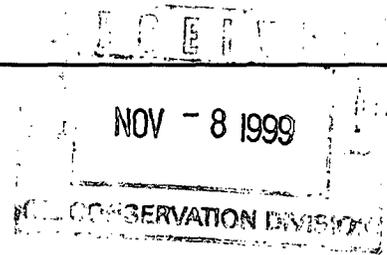
Sent To: *S. Robinson*
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City, State, ZIP+4: *GW-126*

PS Form 3800, January 2001 See Reverse for Instructions



Wilson Environmental Management, Inc.

PO Box 841081 • Houston, Texas 77284-1081



November 5, 1999

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

Re: Remediation Work Plan for Weatherford International Inc. Leased Property
Located at 5432 US Highway 64, Farmington, New Mexico

OCD Discharge Plan # GW126

Dear Mr. Ford:

This letter presents a formal work plan for soil remediation activities at the Weatherford International Inc. (Weatherford) leased property located at 5432 US Highway 64, Farmington New Mexico. The plan reports analytical results from a twelve point sampling investigation of the property and proposes remediation procedures for the facility. Wilson Environmental Management Inc. (Wilson) was contracted by Weatherford to conduct the sampling investigation in order to compare results with an earlier composite sample survey conducted by Loflin Environmental Services, Inc (Loflin).

Analytical Investigation

Wilson used visual observations and a rough drawing in an attempted to locate the 12 sample points used by Loflin. There were some identifiable marks, as well as surface staining in the yard, that appeared to correspond to sample locations indicated by Loflin. Wilson interpreted these marks as sample points and collected samples accordingly. Wilson collected samples from 13 locations (See Figure 3). Sample location BH-13 was used instead of sample BH-2 because there was no hydrocarbon staining of the soil observed at BH-2. If conditions permitted, samples were collected at three different intervals for each location. The intervals were A (0 to 1 foot), B (1 to 2 feet) and C (3 to 4 feet). Samples were collected using a stainless steel hand auger and clean bags in which the soil from each interval was thoroughly mixed. Proper decontamination of the sampling equipment was performed between each sample interval. Representative soil samples from each interval were placed in three sterile 8 ounce soil jars provided by the laboratory. All samples were placed on ice and delivered to American West Analytical Laboratory for analyses using EPA Method 8015 Modified for Total Petroleum Hydrocarbons (TPH) and Total RCRA 8 Metals. Samples were collected, labeled and transported to the laboratory following appropriate chain-of-custody procedures. Prior to sampling, Wilson contacted Mr. Roger Anderson of the State of New Mexico Energy, Mineral and Natural Resources Department, Oil Conservation Division (OCD). Mr. Anderson recommended EPA Method 8015 Modified for TPH analyses be used in the investigation.

Analytical results for each interval are reported in Table 1, Soil Organic Analytical Results, and Table 2, Soil Inorganic Analytical Results. Seven samples from the A interval were reported as having TPH values greater than 100mg/kg. These Samples were BH-5-A, 6-A, 7-A, 9-A, 10-A, 11-A, and 13-A. Reported TPH values ranged from 7,100mg/Kg at BH-5-A and BH-11-A to 120mg/Kg at BH-9-A. Samples BH-7-A and BH-9-A had reported lead levels of 140mg/Kg and 58mg/Kg respectively. Only sample BH-13-A had a barium level greater than 1,000mg/Kg at 1,400mg/Kg. All other metal analytical results were within normal ranges of elemental concentrations for soils of the Western United States. The B interval for these sample locations, excluding BH-13, were analyzed for both TPH and Metals. It was not possible to collect a B interval for sample location BH-13 due to repeated auger refusals at 1 foot. Analytical TPH results for Interval B were below detection limits except for BH-5-B at 4,400mg/Kg and BH-10-B at 120mg/Kg. Reported levels for lead were 29mg/Kg at BH-7-B and 7mg/Kg at BH-9-B. In general, the reported levels of metals in the soil decrease with depth. Interval C TPH analyses for BH-5-C and BH-10-C were requested. BH-5-C was reported at 920mg/Kg TPH and BH-10-C was reported as <20mg/Kg TPH.

Site Remediation Work Plan

Wilson proposes the following remediation work plan consisting of 1) Over excavation of the seven identified soil locations of TPH levels greater than 100 mg/Kg, 2) Stockpiling excavated soil, 3) Confirmation sampling of excavations, 4) Profile sampling of excavated soil for disposal and 5) Transport of excavated soils for treatment at Tierra Environmental Commercial Landfarm. Conversations with Mr. Denny Foust of the OCD regional office located in Aztec, NM indicate that the remediation guidelines for the location will be 100 mg/Kg TPH and 50 mg/Kg BTEX total and 10mg/Kg Benzene.

The proposed method of over excavation of the seven identified areas of TPH contamination, with stockpiling of excavated soil for testing to characterize excavated soil prior to disposal, conforms to suggested OCD remediation procedures. Of the seven locations five appear to be shallow surface stains limited to the first foot of soil. Estimated volumes of affected soil in these areas range from one to ten cubic yards. The proposed procedure for excavation of these areas is to remove the first foot of visibly affected soil. For the area around sample BH-10, TPH levels greater than 100 mg/Kg appear to be limited to the first two feet of soil. An estimated 20 to 30 cubic yards of soil may be excavated in this area. TPH sample results for sample BH-5 indicate TPH levels greater than 100 mg/Kg at the depth of 3.5 feet. This area is the largest of the seven locations and an excavation estimate of 50 cubic yards is expected. The over all volume of excavated soil for each location is dependent on field observations during the excavation process and analytical confirmation results. Volumes may be greater or smaller than the proposed volumes. Also, Wilson may identify additional areas during the remediation process that may require excavation and testing.

Confirmation sampling should follow OCD recommended procedures as described by Mr. Faust. He instructed that one grab sample representative of the base of the smaller excavations would be appropriate. He also instructed that a five part

composite of the base of larger excavations, 20 Cubic Yards (cyd) or greater, along with a representative composite sample of the walls of the excavation would be appropriate. A minimum of seven separate excavation locations will be sampled. There is the possibility that more sample locations will be identified during remediation operations. One or possibly two of the locations are expected to result in an excavation of greater than 20cyd. Wilson recommends that when confirmation composite samples are collected a duplicate grab sample be collected at each location sampled for the composite and held for future analyses should the composite reveal levels greater than the remediation goal. This procedure will greatly aid in the delineation of the excavation should future remediation be required. The OCD requires that TPH and BTEX be analyzed for each confirmation sample location. Wilson recommends that Total RCRA Metals also be analyzed for each confirmation sample location. Also, Weatherford has requested that confirmation samples for locations BH-6, BH-7, BH-10 and BH-11 be analyzed using EPA Method 8260A SW 624 for chlorinated solvents. Wilson estimates that a total of 27 confirmation samples will be collected should the above-mentioned conditions be encountered. Of the 27 confirmation samples a total of 9 will be analyzed in the first round of sampling. If the confirmation samples are above the remediation criteria, additional excavation and sampling will be required. If the composite confirmation samples are above the remediation criteria, the individual point location samples for the composite will be analyzed to guide further excavation.

Also, NORM measurements will be made at each excavation using a portable NORM measurement meter at the location. Wilson will make these measurements at the time of excavation.

The excavated soils will be placed on and covered with plastic sheeting near the larger of the excavations. Wilson recommends stockpiling the excavated soil from locations BH-7 and BH-9 in a separate stockpile from the other excavated soils. The elevated soil lead levels at these locations pose a potential to exhibit higher leachable lead levels than soils from the other locations. Both stockpiles will require a waste characterization using EPA Method TCLP Extraction by SW846 1311 for D-Listed Metals, Volatiles and Semivolatiles along with Corrosivity, Ignitability and Reactivity. These two profile samples should be representative four part composites from each stockpile.

The OCD recommends two OCD permitted recycling facilities in the vicinity of the location for treatment of exempt hydrocarbon contaminated soils as well as non-hazardous not-exempt soils. Weatherford has selected the nearest facility to the location, Tierra Environmental Commercial Landfarm Permitted under OCD Rule 711 permit number R-9772, to treat the excavated soils. The landfarm is located at 420 County Road 3100 in San Juan County, approximately six miles to the east of the Weatherford location off US Highway 64. It is understood that the OCD permits and regulates similar facilities throughout the state. These facilities are permitted to accept for treatment and recycle, soil, sludge and muds contaminated as a result of oil and gas production, exploration and processing. Not-exempt soils must pass the EPA Method 1311 TCLP toxicity characteristic regulatory levels for non-hazardous materials under 40 CFR 261.24 before they can be considered for treatment and recycling at a facility. A Certificate of Waste Status is required from the generator identifying the source and origin of waste, it's properties and whether or not it is

exempt. The OCD reviews and approves all waste before treatment at any of these facilities. Wilson will arrange to have the excavated soil transported to the Tierra facility by an approved transport company following the OCD approval for treatment at the facility. A final report will be prepared documenting the remediation activities at the location and will be submitted to the OCD for review.

Wilson would like to begin remediation activities at the site on November 10, 1999 pending approval of the remediation work plan by the OCD. Mr. Denny Foust has indicated that he would be able to visit the site on the 10th during remediation activities. If there are any further questions regarding this proposed site remediation work plan please contact CB Jacobson at (801) 377-4532.

Sincerely,

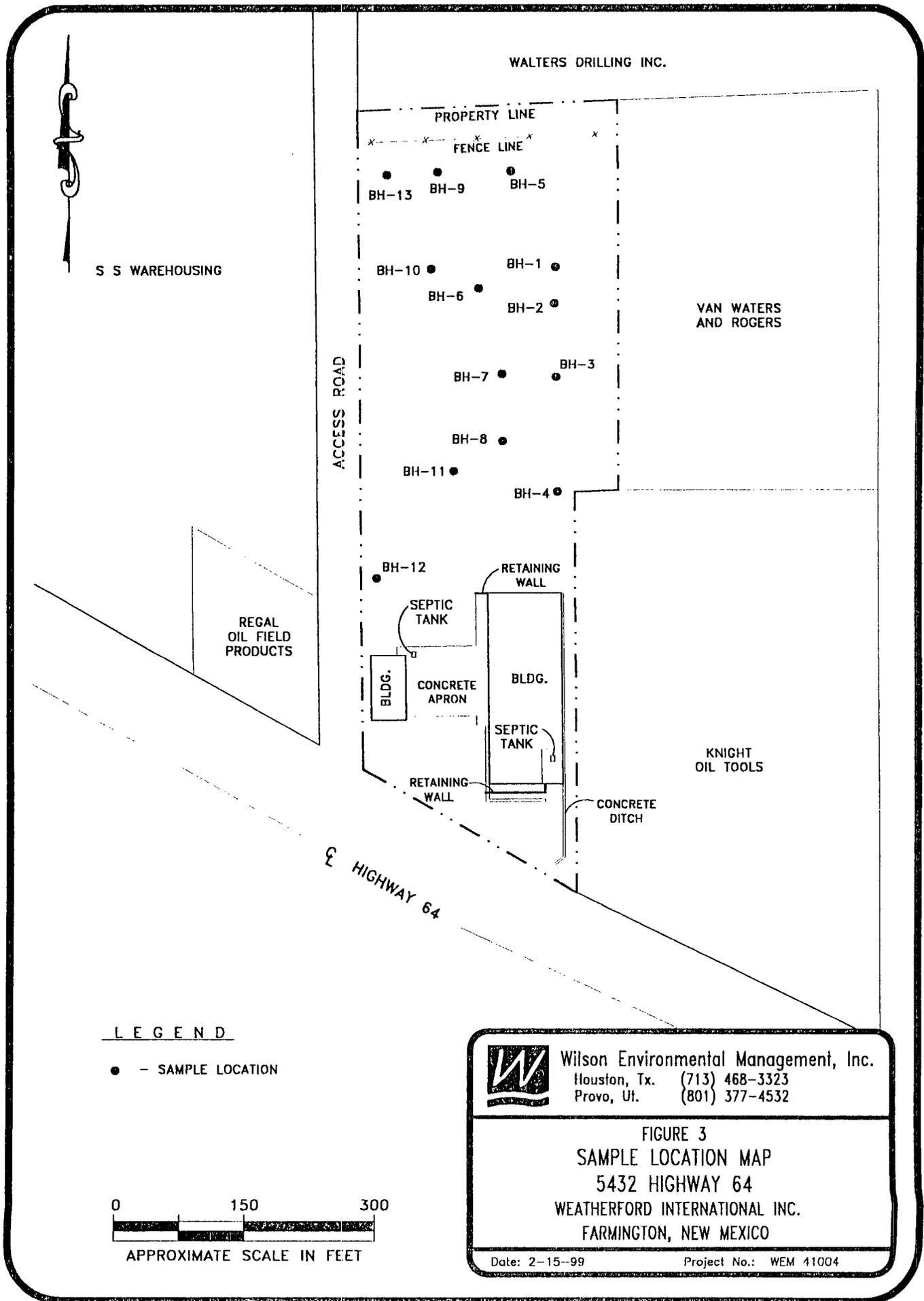
WILSON ENVIRONMENTAL MANAGEMENT, Inc.



CB Jacobson
Project Manager

Attn.

CC. Denny Foust, OCD Aztec Office
Scott Robinson, Weatherford International Inc.



S S WAREHOUSING

WALTERS DRILLING INC.

PROPERTY LINE

FENCE LINE

ACCESS ROAD

VAN WATERS AND ROGERS

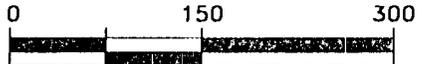
REGAL OIL FIELD PRODUCTS

KNIGHT OIL TOOLS

HIGHWAY 64

LEGEND

● - SAMPLE LOCATION



APPROXIMATE SCALE IN FEET



Wilson Environmental Management, Inc.
Houston, Tx. (713) 468-3323
Provo, Ut. (801) 377-4532

FIGURE 3
SAMPLE LOCATION MAP
5432 HIGHWAY 64
WEATHERFORD INTERNATIONAL INC.
FARMINGTON, NEW MEXICO

Date: 2-15-99

Project No.: WEM 41004

TABLE 1

**Weatherford International Inc
5432 Highway 64 Farmington, NM**

SOIL ORGANIC ANALYTICAL RESULTS

Sample Number	Sample Date	Sampled Interval in Feet	TPH 8015 Modified in mg/kg
BH-1-A	2-9-99	0 to 1	< 20
BH-1-B	2-9-99	1 to 2	NA
BH-3-A	2-9-99	0 to 1	< 20
BH-4-A	2-9-99	0 to 1	<20
BH-4-B	2-9-99	1 to 2	NA
BH-4-C	2-9-99	3 to 3.8	NA
BH-5-A	2-9-99	0 to 1	7,100
BH-5-B	2-9-99	1 to 2	4,400
BH-5-C	2-9-99	3 to 3.5	920
BH-6-A	2-9-99	0 to 1	810
BH-6-B	2-9-99	1 to 2	< 20
BH-6-C	2-9-99	3 to 4	NA
BH-7-A	2-9-99	0 to 1	1,000
BH-7-B	2-9-99	1 to 2	< 20
BH-7-C	2-9-99	3 to 4	NA
BH-8-A	2-10-99	0 to 1	< 20
BH-8-B	2-10-99	1 to 2	NA
BH-8-C	2-10-99	3 to 4	NA
BH-9-A	2-10-99	0 to 1	120
BH-9-B	2-10-99	1 to 2	< 20
BH-9-C	2-10-99	3 to 3.5	NA
BH-10-A	2-10-99	0 to 1	1,100
BH-10-B	2-10-99	1 to 2	120
BH-10-C	2-10-99	3 to 4	< 20
BH-11-A	2-10-99	0 to 1	7,100
BH-11-B	2-10-99	1 to 2	< 20
BH-12-A	2-10-99	0 to 1	< 20
BH-12-B	2-10-99	1 to 2	NA
BH-12-C	2-10-99	3 to 3.5	NA
BH-13-A	2-10-99	1 to 2	2,400

NA = Not Analyzed

TABLE 2

**Weatherford International Inc
5432 Highway 64 Farmington, NM**

**SOIL INORGANIC ANALYSES RESULTS
TOTAL RCRA METALS**

Sample Number	Sampled Interval in Feet	Sample Date	Arsenic mg/Kg	Barium mg/Kg	Cadmium mg/Kg	Chromium mg/Kg	Lead mg/kg	Mercury mg/Kg	Selenium mg/Kg	Silver mg/Kg
BH-1-A	0 to 1	2-9-99	2.1	100	< 0.2	4.0	24	< 0.04	0.4	< 0.5
BH-1-B	1 to 2	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-3-A	0 to 1	2-9-99	5.6	58	< 0.2	5.0	14	< 0.04	< 0.1	< 0.5
BH-4-A	0 to 1	2-9-99	2.6	130	< 0.2	5.4	11	< 0.04	< 0.1	< 0.5
BH-4-B	1 to 2	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-4-C	3 to 3.8	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-5-A	0 to 1	2-9-99	3.3	180	< 0.2	3.1	22	< 0.04	0.2	< 0.5
BH-5-B	1 to 2	2-9-99	4.0	80	< 0.2	4.6	7	< 0.04	< 0.1	< 0.5
BH-5-C	3 to 3.5	2-9-99	2.9	20	< 0.2	1.1	3	< 0.04	< 0.1	< 0.5
BH-6-A	0 to 1	2-9-99	3.0	190	< 0.2	4.1	23	< 0.04	< 0.1	< 0.5
BH-6-B	1 to 2	2-9-99	2.2	160	< 0.2	12.0	14	< 0.04	< 0.1	< 0.5
BH-6-C	3 to 4	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-7-A	0 to 1	2-9-99	2.6	150	< 0.2	18	140	< 0.04	< 0.1	< 0.5
BH-7-B	1 to 2	2-9-99	1.9	81	< 0.2	5.4	29	< 0.04	< 0.1	< 0.5
BH-7-C	3 to 4	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-8-A	0 to 1	2-10-99	2.2	82	< 0.2	4.5	30	< 0.04	< 0.1	< 0.5
BH-8-B	1 to 2	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-8-C	3 to 4	2-10-99	7.4	230	0.90	8.6	11	< 0.04	< 0.1	< 0.5
BH-9-A	0 to 1	2-10-99	2.5	320	< 0.2	6.9	58	< 0.04	< 0.1	< 0.5
BH-9-B	1 to 2	2-10-99	0.7	39	< 0.2	2.5	7	< 0.04	< 0.1	< 0.5
BH-9-C	3 to 3.5	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-10-A	0 to 1	2-10-99	1.7	120	< 0.2	2.6	14	< 0.04	< 0.1	< 0.5
BH-10-B	1 to 2	2-10-99	1.1	28	< 0.2	2.7	11	< 0.04	< 0.1	< 0.5
BH-10-C	3 to 4	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-11-A	0 to 1	2-10-99	2.4	65	< 0.2	4.3	4	< 0.04	< 0.1	< 0.5
BH-11-B	1 to 2	2-10-99	1.4	92	< 0.2	4.3	6	< 0.04	< 0.1	< 0.5
BH-12-A	0 to 1	2-10-99	2.2	93	< 0.2	3.8	29	< 0.04	< 0.1	< 0.5
BH-12-B	1 to 2	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-12-C	3 to 3.5	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-13-A	1 to 2	2-10-99	1.1	1,400	< 0.2	3.4	30	< 0.04	< 0.1	< 0.5

NA = Not Analyzed



**WILSON
ENVIRONMENTAL
MANAGEMENT, INC.**

FAX TRANSMITTAL SHEET

Date: 11-5-99

To: Mr. Jack Ford **Fax No.** (505) 827-8177
State of New Mexico
Oil Conservation Division

From: C.B. Jacobson **Fax No.** (801) 377-9710

Total Number of Pages (Including Transmittal Sheet): 8

Subject: Remediation Work Plan for Weatherford Leased
Property at 5432 Highway 64 Farmington, NM

Notes:

Included is a copy of the site remediation work plan for the Weatherford leased property located at 5432 Highway 64 Farmington, New Mexico. I have faxed a copy of the plan to Mr. Denny Foust and have mailed hard copies as well. If you have any changes or corrections to the plan please CB Jacobson at (801)377-4532.

Thank You,
CB Jacobson

**Wilson Environmental Management, Inc.**

PO Box 841081 • Houston, Texas 77284-1081

November 5, 1999

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

Re: Remediation Work Plan for Weatherford International Inc. Leased Property
Located at 5432 US Highway 64, Farmington, New Mexico

OCD Discharge Plan # GW126

Dear Mr. Ford:

This letter presents a formal work plan for soil remediation activities at the Weatherford International Inc. (Weatherford) leased property located at 5432 US Highway 64, Farmington New Mexico. The plan reports analytical results from a twelve point sampling investigation of the property and proposes remediation procedures for the facility. Wilson Environmental Management Inc. (Wilson) was contracted by Weatherford to conduct the sampling investigation in order to compare results with an earlier composite sample survey conducted by Loflin Environmental Services, Inc (Loflin).

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Analytical results for each interval are reported in Table 1, Soil Organic Analytical Results, and Table 2, Soil Inorganic Analytical Results. Seven samples from the A interval were reported as having TPH values greater than 100mg/kg. These samples were BH-5-A, 6-A, 7-A, 9-A, 10-A, 11-A, and 13-A. Reported TPH values ranged from 7,100mg/Kg at BH-5-A and BH-11-A to 120mg/Kg at BH-9-A. Samples BH-7-A and BH-9-A had reported lead levels of 140mg/Kg and 58mg/Kg respectively. Only sample BH-13-A had a barium level greater than 1,000mg/Kg at 1,400mg/Kg. All other metal analytical results were within normal ranges of elemental concentrations for soils of the Western United States. The B interval for these sample locations, excluding BH-13, were analyzed for both TPH and Metals. It was not possible to collect a B interval for sample location BH-13 due to repeated auger refusals at 1 foot. Analytical TPH results for Interval B were below detection limits except for BH-5-B at 4,400mg/Kg and BH-10-B at 120mg/Kg. Reported levels for lead were 29mg/Kg at BH-7-B and 7mg/Kg at BH-9-B. In general, the reported levels of metals in the soil decrease with depth. Interval C TPH analyses for BH-5-C and BH-10-C were requested. BH-5-C was reported at 920mg/Kg TPH and BH-10-C was reported as <20mg/Kg TPH.

Site Remediation Work Plan

Wilson proposes the following remediation work plan consisting of 1) Over excavation of the seven identified soil locations of TPH levels greater than 100 mg/Kg, 2) Stockpiling excavated soil, 3) Confirmation sampling of excavations, 4) Profile sampling of excavated soil for disposal and 5) Transport of excavated soils for treatment at Tierra Environmental Commercial Landfarm. Conversations with Mr. Denny Foust of the OCD regional office located in Aztec, NM indicate that the remediation guidelines for the location will be 100 mg/Kg TPH and 50 mg/Kg BTEX total and 10mg/Kg Benzene.

The proposed method of over excavation of the seven identified areas of TPH contamination, with stockpiling of excavated soil for testing to characterize excavated soil prior to disposal, conforms to suggested OCD remediation procedures. Of the seven locations five appear to be shallow surface stains limited to the first foot of soil. Estimated volumes of affected soil in these areas range from one to ten cubic yards. The proposed procedure for excavation of these areas is to remove the first foot of visibly affected soil. For the area around sample BH-10, TPH levels greater than 100 mg/Kg appear to be limited to the first two feet of soil. An estimated 20 to 30 cubic yards of soil may be excavated in this area. TPH sample results for sample BH-5 indicate TPH levels greater than 100 mg/Kg at the depth of 3.5 feet. This area is the largest of the seven locations and an excavation estimate of 50 cubic yards is expected. The over all volume of excavated soil for each location is dependent on field observations during the excavation process and analytical confirmation results. Volumes may be greater or smaller than the proposed volumes. Also, Wilson may identify additional areas during the remediation process that may require excavation and testing.

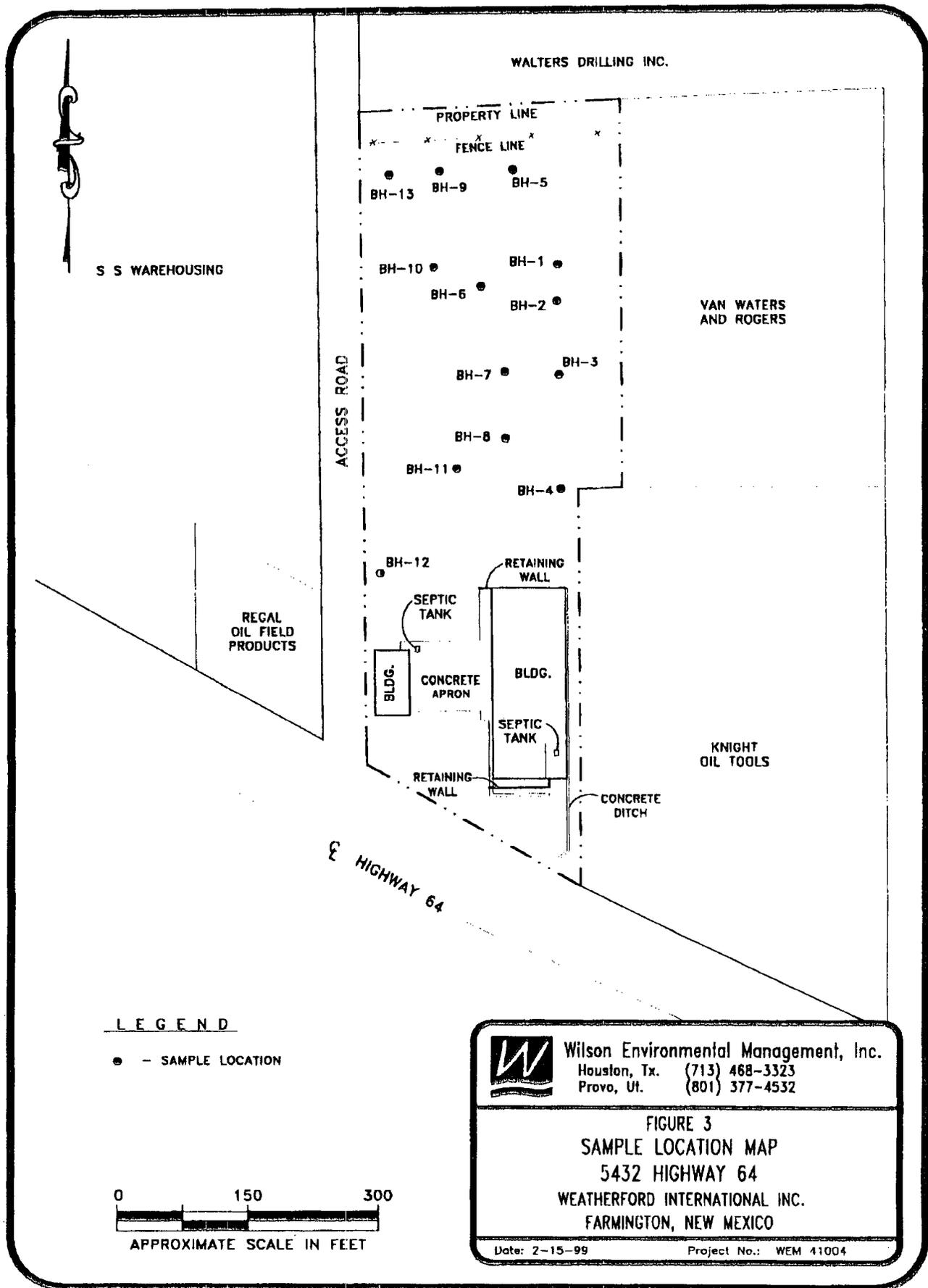
Confirmation sampling should follow OCD recommended procedures as described by Mr. Faust. He instructed that one grab sample representative of the base of the smaller excavations would be appropriate. He also instructed that a five part

composite of the base of larger excavations, 20 Cubic Yards (cyd) or greater, along with a representative composite sample of the walls of the excavation would be appropriate. A minimum of seven separate excavation locations will be sampled. There is the possibility that more sample locations will be identified during remediation operations. One or possibly two of the locations are expected to result in an excavation of greater than 20cyd. Wilson recommends that when confirmation composite samples are collected a duplicate grab sample be collected at each location sampled for the composite and held for future analyses should the composite reveal levels greater than the remediation goal. This procedure will greatly aid in the delineation of the excavation should future remediation be required. The OCD requires that TPH and BTEX be analyzed for each confirmation sample location. Wilson recommends that Total RCRA Metals also be analyzed for each confirmation sample location. Also, Weatherford has requested that confirmation samples for locations BH-6, BH-7, BH-10 and BH-11 be analyzed using EPA Method 8260A SW 624 for chlorinated solvents. Wilson estimates that a total of 27 confirmation samples will be collected should the above-mentioned conditions be encountered. Of the 27 confirmation samples a total of 9 will be analyzed in the first round of sampling. If the confirmation samples are above the remediation criteria, additional excavation and sampling will be required. If the composite confirmation samples are above the remediation criteria, the individual point location samples for the composite will be analyzed to guide further excavation.

Also, NORM measurements will be made at each excavation using a portable NORM measurement meter at the location. Wilson will make these measurements at the time of excavation.

The excavated soils will be placed on and covered with plastic sheeting near the larger of the excavations. Wilson recommends stockpiling the excavated soil from locations BH-7 and BH-9 in a separate stockpile from the other excavated soils. The elevated soil lead levels at these locations pose a potential to exhibit higher leachable lead levels than soils from the other locations. Both stockpiles will require a waste characterization using EPA Method TCLP Extraction by SW846 1311 for D-Listed Metals, Volatiles and Semivolatiles along with Corrosivity, Ignitability and Reactivity. These two profile samples should be representative four part composites from each stockpile.

The OCD recommends two OCD permitted recycling facilities in the vicinity of the location for treatment of exempt hydrocarbon contaminated soils as well as non-hazardous not-exempt soils. Weatherford has selected the nearest facility to the location, Tierra Environmental Commercial Landfarm Permitted under OCD Rule 711 permit number R-9772, to treat the excavated soils. The landfarm is located at 420 County Road 3100 in San Juan County, approximately six miles to the east of the Weatherford location off US Highway 64. It is understood that the OCD permits and regulates similar facilities throughout the state. These facilities are permitted to accept for treatment and recycle, soil, sludge and muds contaminated as a result of oil and gas production, exploration and processing. Not-exempt soils must pass the EPA Method 1311 TCLP toxicity characteristic regulatory levels for non-hazardous materials under 40 CFR 261.24 before they can be considered for treatment and recycling at a facility. A Certificate of Waste Status is required from the generator identifying the source and origin of waste, its properties and whether or not it is



LEGEND

● - SAMPLE LOCATION



APPROXIMATE SCALE IN FEET



Wilson Environmental Management, Inc.
 Houston, Tx. (713) 468-3323
 Provo, Ut. (801) 377-4532

FIGURE 3
 SAMPLE LOCATION MAP
 5432 HIGHWAY 64
 WEATHERFORD INTERNATIONAL INC.
 FARMINGTON, NEW MEXICO

Date: 2-15-99

Project No.: WEM 41004

TABLE 1

**Weatherford International Inc
5432 Highway 64 Farmington, NM**

SOIL ORGANIC ANALYTICAL RESULTS

Sample Number	Sample Date	Sampled Interval in Feet	TPH 8015 Modified in mg/kg
BH-1-A	2-9-99	0 to 1	< 20
BH-1-B	2-9-99	1 to 2	NA
BH-3-A	2-9-99	0 to 1	< 20
BH-4-A	2-9-99	0 to 1	<20
BH-4-B	2-9-99	1 to 2	NA
BH-4-C	2-9-99	3 to 3.8	NA
BH-5-A	2-9-99	0 to 1	7,100
BH-5-B	2-9-99	1 to 2	4,400
BH-5-C	2-9-99	3 to 3.5	920
BH-6-A	2-9-99	0 to 1	810
BH-6-B	2-9-99	1 to 2	< 20
BH-6-C	2-9-99	3 to 4	NA
BH-7-A	2-9-99	0 to 1	1,000
BH-7-B	2-9-99	1 to 2	< 20
BH-7-C	2-9-99	3 to 4	NA
BH-8-A	2-10-99	0 to 1	< 20
BH-8-B	2-10-99	1 to 2	NA
BH-8-C	2-10-99	3 to 4	NA
BH-9-A	2-10-99	0 to 1	120
BH-9-B	2-10-99	1 to 2	< 20
BH-9-C	2-10-99	3 to 3.5	NA
BH-10-A	2-10-99	0 to 1	1,100
BH-10-B	2-10-99	1 to 2	120
BH-10-C	2-10-99	3 to 4	< 20
BH-11-A	2-10-99	0 to 1	7,100
BH-11-B	2-10-99	1 to 2	< 20
BH-12-A	2-10-99	0 to 1	< 20
BH-12-B	2-10-99	1 to 2	NA
BH-12-C	2-10-99	3 to 3.5	NA
BH-13-A	2-10-99	1 to 2	2,400

NA = Not Analyzed

TABLE 2

**Weatherford International Inc
5432 Highway 64 Farmington, NM**

**SOIL INORGANIC ANALYSES RESULTS
TOTAL RCRA METALS**

Sample Number	Sampled Interval in Feet	Sample Date	Arsenic mg/Kg	Barium mg/Kg	Cadmium mg/Kg	Chromium mg/Kg	Lead mg/kg	Mercury mg/Kg	Selenium mg/Kg	Silver mg/Kg
BH-1-A	0 to 1	2-9-99	2.1	100	< 0.2	4.0	24	< 0.04	0.4	< 0.5
BH-1-B	1 to 2	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-3-A	0 to 1	2-9-99	5.6	58	< 0.2	5.0	14	< 0.04	< 0.1	< 0.5
BH-4-A	0 to 1	2-9-99	2.6	130	< 0.2	5.4	11	< 0.04	< 0.1	< 0.5
BH-4-B	1 to 2	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-4-C	3 to 3.8	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-5-A	0 to 1	2-9-99	3.3	180	< 0.2	3.1	22	< 0.04	0.2	< 0.5
BH-5-B	1 to 2	2-9-99	4.0	80	< 0.2	4.6	7	< 0.04	< 0.1	< 0.5
BH-5-C	3 to 3.5	2-9-99	2.9	20	< 0.2	1.1	3	< 0.04	< 0.1	< 0.5
BH-6-A	0 to 1	2-9-99	3.0	190	< 0.2	4.1	23	< 0.04	< 0.1	< 0.5
BH-6-B	1 to 2	2-9-99	2.2	160	< 0.2	12.0	14	< 0.04	< 0.1	< 0.5
BH-6-C	3 to 4	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-7-A	0 to 1	2-9-99	2.6	150	< 0.2	18	140	< 0.04	< 0.1	< 0.5
BH-7-B	1 to 2	2-9-99	1.9	81	< 0.2	5.4	29	< 0.04	< 0.1	< 0.5
BH-7-C	3 to 4	2-9-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-8-A	0 to 1	2-10-99	2.2	82	< 0.2	4.5	30	< 0.04	< 0.1	< 0.5
BH-8-B	1 to 2	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-8-C	3 to 4	2-10-99	7.4	230	0.90	8.6	11	< 0.04	< 0.1	< 0.5
BH-9-A	0 to 1	2-10-99	2.5	320	< 0.2	6.9	58	< 0.04	< 0.1	< 0.5
BH-9-B	1 to 2	2-10-99	0.7	39	< 0.2	2.5	7	< 0.04	< 0.1	< 0.5
BH-9-C	3 to 3.5	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-10-A	0 to 1	2-10-99	1.7	120	< 0.2	2.6	14	< 0.04	< 0.1	< 0.5
BH-10-B	1 to 2	2-10-99	1.1	28	< 0.2	2.7	11	< 0.04	< 0.1	< 0.5
BH-10-C	3 to 4	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-11-A	0 to 1	2-10-99	2.4	65	< 0.2	4.3	4	< 0.04	< 0.1	< 0.5
BH-11-B	1 to 2	2-10-99	1.4	92	< 0.2	4.3	6	< 0.04	< 0.1	< 0.5
BH-12-A	0 to 1	2-10-99	2.2	93	< 0.2	3.8	29	< 0.04	< 0.1	< 0.5
BH-12-B	1 to 2	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-12-C	3 to 3.5	2-10-99	NA	NA	NA	NA	NA	NA	NA	NA
BH-13-A	1 to 2	2-10-99	1.1	1,400	< 0.2	3.4	30	< 0.04	< 0.1	< 0.5

NA = Not Analyzed

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 7/3/97
or cash received on _____ in the amount of \$ 690.00
from Weatherford Enterra
for Lorington GW126

Submitted by: _____ Date: _____
Submitted to ASD by: R. Chudman Date: _____
Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility _____ Renewal X
Modification _____ Other _____

Organization Code 521.07 Applicable FY 98

To be deposited in the Water Quality Management Fund.
Full Payment X or Annual Increment _____

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM.

Weatherford Enterra

WEATHERFORD ENTERRA U.S.
P.O. BOX 27808
HOUSTON, TX 77227-7608

TEXAS COMMERCE BANK
SAN ANGELO, TEXAS
88-88
1115

No. 389985

CHECK DATE	CHECK NUMBER	CHECK AMOUNT
03-JUL-97	[REDACTED]	*****\$690.00

PAY PAY ONLY **690.00** CTCTS

TO THE ORDER OF: NEW MEXICO OIL CONSERVATION DIVISION
2040 S PACHECO
SANTA FE, NM 87505

BY: _____
BY: [Signature]
Authorized Signature



DATE 03-JUL-97

P.O. BOX 27808
HOUSTON, TX 77227-7608

VENDOR NAME NEW MEXICO OIL CONSERVATION DIVISION VENDOR NO 605780

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
01-JUL-97A	01-JUL-97	GW-126	0.00	690.00

RECEIVED
 JUL 11 1997
 Environmental Bureau
 Oil Conservation Division

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT. **THANK YOU!**

0.00 690.00

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM.

Weatherford Enterra

WEATHERFORD ENTERRA U.S.
P.O. BOX 27808
HOUSTON, TX 77227-7608

TEXAS COMMERCE BANK
SAN ANGELO, TEXAS
88-88
1115

No. [REDACTED]

CHECK DATE	CHECK NUMBER	CHECK AMOUNT
03-JUL-97	[REDACTED]	*****\$690.00

PAY



TO THE
ORDER OF: NEW MEXICO OIL CONSERVATION DIVISION
2040 S PACHECO
SANTA FE, NM 87505

BY [REDACTED]
BY [REDACTED]

[Handwritten Signature]
Authorized Signature





United States Department of the Interior

FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, New Mexico 87113
Phone: (505) 761-4525 Fax: (505) 761-4542

May 30, 1997

RECEIVED

JUN 4 1997

Oil Conservation Division

William J. Lemay, Director
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Dear Mr. Lemay:

This responds to your agency's public notices dated April 29, 1997, and May 6, 1997, regarding the discharge plan renewal applications for the three applicants described below:

(GW-126) - Weatherford Enterra US. Ms. Lesa Griffin has submitted an application for renewal of the company's approved discharge plan for the Farmington facility located in Section 19, Township 29 North, Range 12 West, San Juan County, New Mexico. Discharges will be stored in a closed-top receptacle.

(GW-054) - Conoco, Inc. Ms. Terry L. Killian has submitted an application for renewal of the company's approved discharge plan for the "Wingate" gas plant located in Sections 9, 10, 15, 16, and 17, Township 15 North, Range 17 West, McKinley County, New Mexico. Discharges of plant waste water are stored and disposed of in two evaporation ponds.

GW-042) - GPM Gas Services Company. Mr. Scott Seeby has submitted an application for renewal of the company's approved discharge plan for the Indian Hill Gas Plant located in Section 13, Township 21 South, Range 25 East, Eddy County, New Mexico. The facility is currently inactive with no discharges occurring.

The U.S. Fish and Wildlife Service (Service) heartily approves of discharge plans that utilize closed top receptacles or tanks (i.e., Discharge Plan GW -126). The installation of berms around these structures is also recommended to help prevent any contamination of the surface waters of New Mexico in the event that a tank or receptacle is accidentally ruptured.

The Service recommends the use of wildlife exclusion technology (nets, fences, enclosed tanks, etc.) to prevent migratory bird and other wildlife access to any brine or produced water storage ponds, lined or unlined evaporative ponds, open tanks, or lagoons that contain toxic chemicals, or that may harbor a surface oil sheen. During flight, migratory birds may not distinguish between an evaporation or storage pond and a natural water body: the artificial water body may serve as an "attractive nuisance" if measures are not taken to exclude migratory birds from access. Alternatively, the applicant may demonstrate that the retained waters are "bird-safe" (e.g., can meet New Mexico general water quality standards 1102.B, 1102.F, and 3101.K or 3101.L).

William J. Lemay, Director

2

If the construction and operation of such structures results in migratory bird deaths and the problem is not addressed, the operator may be held liable under the enforcement provisions of the Migratory Bird Treaty Act (MBTA). Under the MBTA, the courts have held that an operator of process waste water storage facilities may be held liable for an "illegal take" of migratory birds. An "illegal take" has been interpreted to include accidental poisoning or accumulation of harmful concentrations of contaminants by migratory birds, which might occur as a result of access to the stored water. Hydrocarbon pollutants, for instance, can be carried to the nest on breast feathers, feet, or in nesting materials, where the eggs can subsequently become contaminated, leading to embryo death and reduced hatchability.

Our intent is to inform and intercede before any migratory bird deaths occur, since these birds constitute a legally protected resource. The Service would rather prevent a problem resulting from migratory bird access to contaminated ponds than take enforcement actions, which are expensive and disruptive to legitimate mineral extraction and energy production activities.

Thank you for the opportunity to review and comment on this discharge plan application. If you have any questions about these comments, please contact Dennis Byrnes at (505) 761-4525.

Sincerely,



Jennifer Fowler-Propst
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Geographic Manager, New Mexico Ecosystems, U.S. Fish and Wildlife Service,
Albuquerque, New Mexico
Senior Resident Agent, U.S. Fish and Wildlife Service, Albuquerque, New Mexico
Migratory Bird Office, U.S. Fish and Wildlife Service, Albuquerque, New Mexico

**ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH**

I hereby acknowledge receipt of check No. [REDACTED] dated 4/17/97
or cash received on _____ in the amount of \$ 50.00

from Weatherford Enterra

for Farmington GW-126

Submitted by: _____ Date: _____ (DP No.)

Submitted to ASD by: R. R. Under Date: 5-23-97

Received in ASD by: _____ Date: _____

Filing Fee X R New Facility _____ Renewal _____

Modification _____ Other _____

Organization Code 52107 Applicable FY 97

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM.



Weatherford Enterra

WEATHERFORD ENTERRA U.S.
P.O. BOX 27808
HOUSTON, TX 77227-7808

TEXAS COMMERCE BANK
SAN ANGELO, TEXAS
88-88
1113

No. [REDACTED]

CHECK DATE	CHECK NUMBER	CHECK AMOUNT
17-APR-97	[REDACTED]	*****\$50.00

PAY  **PAY TO THE ORDER OF** **ONLY \$ 00**

TO THE ORDER OF: N M E D - WATER QUALITY MANAGEMENT
2040 S PACHECO ST
SANTA FE, NM 87505

BY _____
BY 
Authorized Signature

FORM NO. 98521
COPYRIGHT © 1997 BY TEXAS COMMERCE BANK

RECEIVED

MAY 19 1997

Environmental Bureau
Oil Conservation Division

*Okay Pub
5-19-97*

AFFIDAVIT OF PUBLICATION

No. 37887

COPY OF PUBLICATION

STATE OF NEW MEXICO
County of San Juan:

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

Wednesday, May 7, 1997;

and the cost of publication is: \$72.46

Denise H. Henson

On 5-13-97 DENISE H. HENSON appeared before me, whom I know personally to be the person who signed the above document.

George Wilson
My Commission Expires November 1, 2000

Legals



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

(GW-126) - Weatherford Enterra US, Ms. Lesa Griffin, (713)-693-4922, 515 Post Oak Blvd., Suite 500, Houston, TX, 77027, has submitted a Discharge Plan Renewal Application for their Farmington facility located in the SW/4NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan 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 30 feet with a total dissolved solids concentration of approximately 1,000 to 2,000 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-054) - Conoco, Inc., Ms. Terry L. Killian, (281)-293-1188, P.O. Box 2197 - HU3036, Houston, TX, 77252, has submitted a Discharge Plan Renewal Application for their "Wingate" gas plant located in Sections 9, 10, 15, 16 and 17, Township 15 North, Range 17 West, NMPM, McKinley County, New Mexico. Plant waste water is disposed of into two surface evaporation ponds. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 5 to 30 feet with a total dissolved solids concentration of approximately 466 to 1400 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 29th day of April, 1997.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
/s/ William J. LeMay
WILLIAM J. LEMAY, Director

SEAL

Legal No. 37887 published in the Daily Times, Farmington, New Mexico, on Wednesday May 7 1997.

The Santa Fe New Mexican

Since 1849. We Read You.

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

AD NUMBER: 634754

ACCOUNT: 56689

LEGAL NO: 61661

P.O. #: 96-199-002997

206	LINES	ONCE	at \$	82.40
Affidavits:				5.25
Tax:				5.48
Total:				\$ 93.13

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

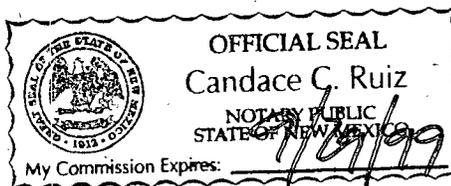
I, BETSY PERNER being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily news paper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 61661 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 5 day of MAY 1997 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/

Betsy Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 5 day of MAY A.D. 1997

Notary Candace C. Ruiz
Commission Expires _____



RECEIVED

MAY - 9 1997

Environmental Bureau
Oil Conservation Division

okay to pay
DWB
5-9-97

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

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(GW-054) - Conoco, Inc., Ms. Terry L. Killian, (281)-293-1188, P.O. box 2197 - HU3036, Houston, TX, 77252, has submitted a Discharge Plan Renewal Application for their "Wingate" gas plant located in Sections 9, 10, 15, 16 and 17, Township 15 North, Range 17 West, NMPM, McKinley County, New Mexico. Plant waste water is disposed of into two surface evaporation ponds. Groundwater most likely to be affected by a

spill, leak, or accidental discharge to the surface is at a depth of approximately 5 to 3 feet with a total dissolved solids concentration of approximately 480 to 1400 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 29th day of April 1997.

STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION
WILLIAM J. LEMAY,
Director
Legal #61661
Pub. May 5, 1997

RECEIVED

MAY - 9 1997

Environmental Bureau
Oil Conservation Division

OKay [Signature]
5-9-97

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

(GW-126) - Weatherford Enterra US, Ms. Lesa Griffin, (713)-693-4922, 515 Post Oak Blvd., Suite 600, Houston, TX, 77027, has submitted a Discharge Plan Renewal Application for their Farmington facility located in the SW/4 NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan 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 30 feet with a total dissolved solids concentration of approximately 1,000 to 2,000 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

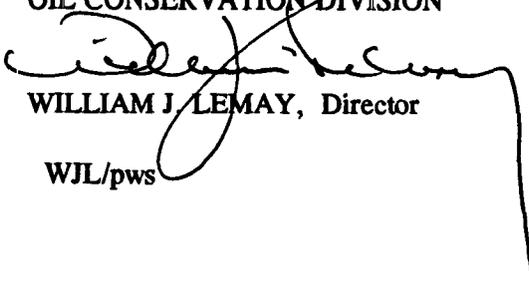
(GW-054) - Conoco, Inc., Ms. Terry L. Killian, (281)-293-1188, P.O. Box 2197 - HU3036, Houston, TX, 77252, has submitted a Discharge Plan Renewal Application for their "Wingate" gas plant located in Sections 9, 10, 15, 16, and 17, Township 15 North, Range 17 West, NMPM, McKinley County, New Mexico. Plant waste water is disposed of into two surface evaporation ponds. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 5 to 30 feet with a total dissolved solids concentration of approximately 480 to 1400 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 29th day of April, 1997.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY, Director

WJL/pws

SEAL



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

June 18, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-615

Ms. Lesa Griffin
Environmental Director
Weatherford Enterra US, LMTD
515 Post Oak Boulevard, Suite 600
Houston, TX 77027

**RE: Renewal of Discharge Plan GW-126
Farmington - Service Facility
San Juan County, New Mexico**

Dear Ms. Griffin:

The discharge plan renewal for the Weatherford Enterra, Inc. Farmington Facility GW-126 located in SW/4 NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. The discharge plan renewal consists of the application dated April 14, 1997, submitted by Wilson Environmental on behalf of Weatherford Enterra, the discharge plan approval letter from OCD dated August 19, 1992, and this approval letter with conditions of approval from OCD dated June 18, 1997. 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 Ten working days of receipt of this letter.**

The discharge plan renewal application was submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission Regulations. Please note Sections 3109.E and 3109.F which provide for possible future amendments or modifications of the plan. Please be advised that the approval of this plan does not relieve Weatherford Enterra 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.

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 Weatherford Enterra 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.

Ms. Lesa Griffin
 Weatherford Enterra US, LMTD
 GW-126
 June 18, 1997
 Page 2

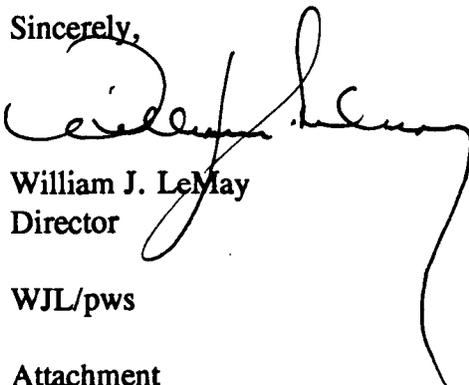
Pursuant to Section 3109.G.4, this plan is for a period of five (5) years. **This approval will expire August 19, 2002, and an application for renewal should be submitted in ample time before that date.** Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal 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 plans for, or the results of, an underground drainage testing program as a requirement for discharge plan renewal approval.

The discharge plan renewal for the Weatherford Enterra Farmington Facility GW-126 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) and a flat fee of six-hundred and ninety dollars (\$ 690) for service companies renewing discharge plans.

The \$50 filing fee has been received by the OCD. The \$690 flat fee has not been received by the OCD and is due upon receipt of this approval. The flat fee may be paid in one lump sum or in five equal annual installments of \$ 138 over the term of the permit 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

c: Aztec OCD District

P 326 936 615

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

Sent to WEI Gw-126	
Street & Number DP - Renewal	
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

Ms. Lesa Griffin
Weatherford Enterra US, LMTD
GW-126
June 18, 1997
Page 3

ATTACHMENT TO DISCHARGE PLAN RENEWAL GW-126
Weatherford Enterra - Farmington Facility
DISCHARGE PLAN REQUIREMENTS
(June 18, 1997)

1. **Payment of Discharge Plan Fees:** The \$690 flat fee has not been received by the OCD and is due upon receipt of this approval. The flat fee may be paid in one lump sum or in five equal annual installments of \$138 over the term of the permit with the first payment due upon receipt of this approval.
2. **Weatherford Enterra Commitments:** Weatherford Enterra will abide by all commitments submitted in the discharge plan renewal application dated April 14, 1997, submitted by Wilson Environmental on behalf of Weatherford Enterra, the discharge plan approval letter from OCD dated August 19, 1992, and this approval letter with conditions of approval from OCD dated June 18, 1997.
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.

Ms. Lesa Griffin
Weatherford Enterra US, LMTD
GW-126
June 18, 1997
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. **Housekeeping:** All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.

Any soils contaminated with a non-exempt waste at the facility will be tested for hazardous constituents, and after receiving OCD approval, will be disposed of at an OCD approved site.

10. **Spill Reporting:** All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the Aztec OCD District Office at (505)-334-6178.

11. **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.

12. **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.

13. **Certification:** Weatherford Enterra , by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Weatherford Enterra, 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 groundwater, human health and the environment.

Accepted:
Weatherford Enterra US, LMTD.

by _____
Title



Wilson Environmental Management, Inc.

PO Box 841081 • Houston, Texas 77284-1081

PO Box 3083 • Salt Lake City, Utah 84110

April 17, 1997

New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

RE: Discharge Plan Renewal Application (GW-126)
Weatherford Enterra US, LP.
5432 Highway 64
Farmington, New Mexico

Dear Sirs:

Attached for your review is the original Discharge Plan Renewal Application and one copy of the Discharge Plan Renewal for the Weatherford Enterra facility located at 5432 Highway 64 in Farmington, New Mexico. An additional copy of the Discharge Plan Renewal Application has also be submitted to the OCD District Office in Aztec, New Mexico.

If you have any questions, please feel free to contact me at (713) 783-6605.

Sincerely,

Donald R. Morgan
Sr. Project Manager

cc: ODC District 3 Office-Aztec
File

RECEIVED

APR 28 1997

Environmental Bureau
Oil Conservation Division

WEATHERFORD ENTERRA U.S.
P.O. BOX 27608
HOUSTON, TX 77227-7608

No. [REDACTED]

DATE 17-APR-97

VENDOR NAME N M E D - WATER QUAL VENDOR NO. 604921

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
09-APR-97	09-APR-97		0.00	50.00
<p>RECEIVED</p> <p>APR 28 1997</p> <p>Environmental Bureau Oil Conservation Division</p>				
			0.00	50.00

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT. **THANK YOU!**

0.00

50.00

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM.

Weatherford Enterra

WEATHERFORD ENTERRA U.S.
P.O. BOX 27608
HOUSTON, TX 77227-7608

TEXAS COMMERCE BANK
SAN ANGELO, TEXAS
88-88
1113

No. [REDACTED]

CHECK DATE	CHECK NUMBER	CHECK AMOUNT
17-APR-97	[REDACTED]	*****\$50.00

PAY **50.00** ONLY CTSCTS

TO THE ORDER OF: N M E D - WATER QUALITY MANAGEMENT
2040 S PACHECO ST
SANTA FE, NM 87505

BY
BY _____
Authorized Signature



**Wilson Environmental
Management, Inc.**

OCD - File Copy

Weatherford Enterra US, Limited Partnership

Discharge Plan Renewal (GW-126)
Weatherford Enterra Oil Field Rental Tools
5432 Highway 64
Farmington, New Mexico

RECEIVED

APR 28 1997

Environmental Bureau
Oil Conservation Division

**Wilson Environmental
Management, Inc.**

Weatherford Enterra US, Limited Partnership

Discharge Plan Renewal (GW-126)
Weatherford Enterra Oil Field Rental Tools
5432 Highway 64
Farmington, New Mexico

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APR 28 1997

Environmental Bureau
Oil Conservation Division

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

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

Revised 12/1/

PERMIT

Submit Original
Plus 1 Copy
to Santa
to appropriate
District Office

APR 28 1997

Environmental Bureau
Oil Conservation Division

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,
GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS
(Refer to the OCD Guidelines for assistance in completing the application)

New

Renewal

Modification

1. Type: Oilfield equipment rental and storage; Wireline services
2. Operator: Weatherford Enterra US, Limited Partnership
Address: 5432 US Highway 64, Farmington, NM 87401
Contact Person: Jack Dunson Phone: 505-327-6341
3. Location: SW 14 NW 14 Section 19 Township 29N Range 12W
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: Lesa L. Griffin Title: Environmental Manager

Signature: [Handwritten Signature] Date: 4/14/97

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- A Waste Disposal Manifests and Analytical Results
- B OCD Notification Reporting Form
- C Water Well Registration Form

1. Introduction

Weatherford Enterra US, Limited Partnership, is preparing this Discharge Plan Renewal for their facility located at 5432 Highway 64 in Farmington, New Mexico. The current Discharge Plan (GW-126) was approved August 19, 1992 and expires August 19, 1997. In order to continue facility operations, the Discharge Plan Renewal must be submitted at least 120 days prior to expiration of the existing plan. The following sections provide the Discharge Plan Renewal information required by the ODC for Oil Field Service Facilities.

2. Facility Information

2.1. Type of Operation

The facility rents oil field tools and pipe used for the exploration and production of crude oil and natural gas. Rental equipment returned from the field is steamed cleaned to remove oil, grease and drilling mud, repaired if necessary and repainted prior to being returned to the rental inventory. The equipment will remain in inventory until the next rental.

The facility does not perform any on-site waste disposal. All wastes produced by the facility are transported off-site by licensed transporters and recycled or disposed by permitted operators.

2.2. Facility Operator

The operator of the facility is:

Weatherford Enterra U.S., Limited Partnership
515 Post Oak Boulevard, Suite 600
Houston, Texas 77027
(713) 693-4000

The Farmington location facility manager is:

Mr. Jack Dunson
5432 Highway 64
P.O. Box 2344
Farmington, New Mexico 87401
(505) 327-1046.

2.3. Facility Location

The facility is located at 5432 Highway 64, Farmington, New Mexico. The site location is SW/4, NW/4, Section 19, Township 29 N, Range 12 W in San Juan County. A USGS topographic map showing the approximate location of the facility is provided as Figure 2-1. Figure 2-2 is current street map of Farmington illustrating the approximate location of the facility and a one mile radius around the facility.

2.4. Landowner

The site owner is:

Mr. Cecil E. McClelland
Farmington, New Mexico
(505) 325-2198

2.5. Facility Description

The facility is located within the City of Farmington. The facility is located on an approximately 13.5 acre tract of land. The facility is bordered on the south by Highway 64, on the west by an unnamed county road. To the east and northeast is Weskem, a drilling mud and chemical company.

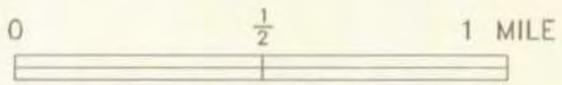
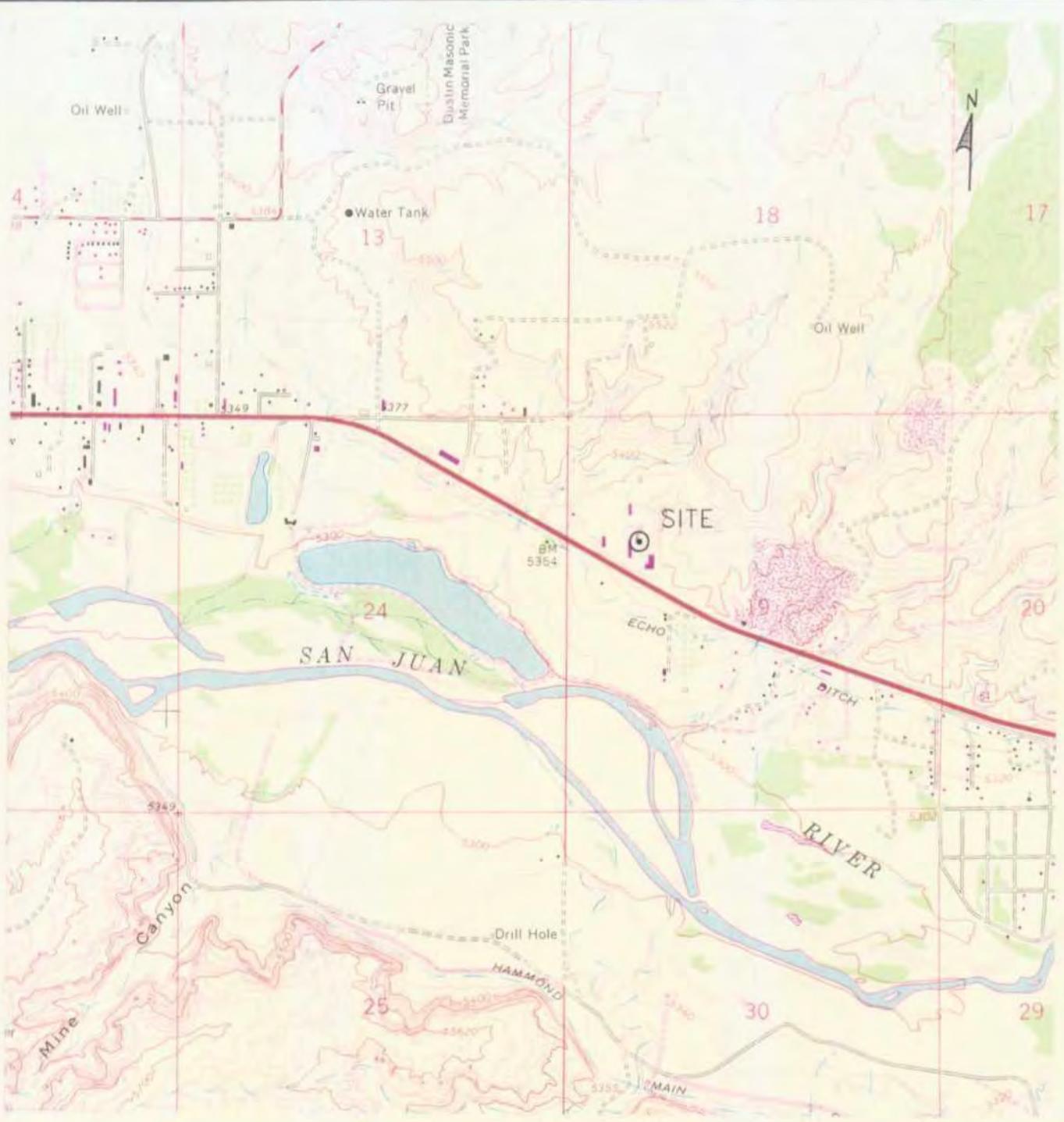
The facility consists of two buildings constructed in 1974 and a equipment storage yard. One building located at the southwest corner of the building is used by the Wireline Services group while the Rental Tool group and main shop is located in the larger building located at the south side of the property. A site plot plan of the facility indicating the locations of the facility structures is provided as Figure 2-3.

The Wireline Services building consists of offices and a small shop area used to store wireline trucks and equipment. The Wireline building also has a concrete sump within the shop where trucks and small wireline equipment are washed. Significantly dirty or oily equipment is steam cleaned in the Rental Tool shop. Water collected in the Wireline building sump is gravity drained through a below-grade 2-inch PVC pipe to the sump in the Rental Tools building for treatment and recycling.

The Rental Tools building and consists of offices, equipment warehouse and the main shop where steam cleaning, repairs and painting are performed. The steam cleaning, painting and water treatment are performed at the north end of the building.

Prior to 1992, industrial wastewater was disposed on-site in an industrial only leachfield. The leachfield was clean closed in 1991 by excavation of the leachfield and the underlying impacted soils. A new wastewater collection, treatment and recycling system was constructed at the north end of the Rental Tools building in 1992. This wastewater system is still in place with the wastewater being treated and reused. When the treated water needs to be replaced due to increases in the Total Dissolved Solids concentration (TDS), the water is collected by truck for off-site treatment and disposal. No wastes are disposed on-site. All wastes are transported off-site for recycling or disposal by permitted facilities.

TO



SCALE 1:24000

REFERENCE: U.S.G.S. FARMINGTON SOUTH, NEW MEXICO. 1965,1979.

WILSON ENVIRONMENTAL
MANAGEMENT, INC.

FIGURE 2-1
SITE LOCATION MAP
WEATHERFORD ENTERRA, US, LP.
5432 HWY 64
FARMINGTON, NEW MEXICO

DRAWN BY:	SH	DATE:	4-9-97	PROJECT NUMBER:	WEM
CHEK'D BY:		REVISED:		41003-99-1	

Figure 2-2



© 1996 DeLorme Street Atlas USA

Mag 14.00

Sat Apr 12 12:07 1997

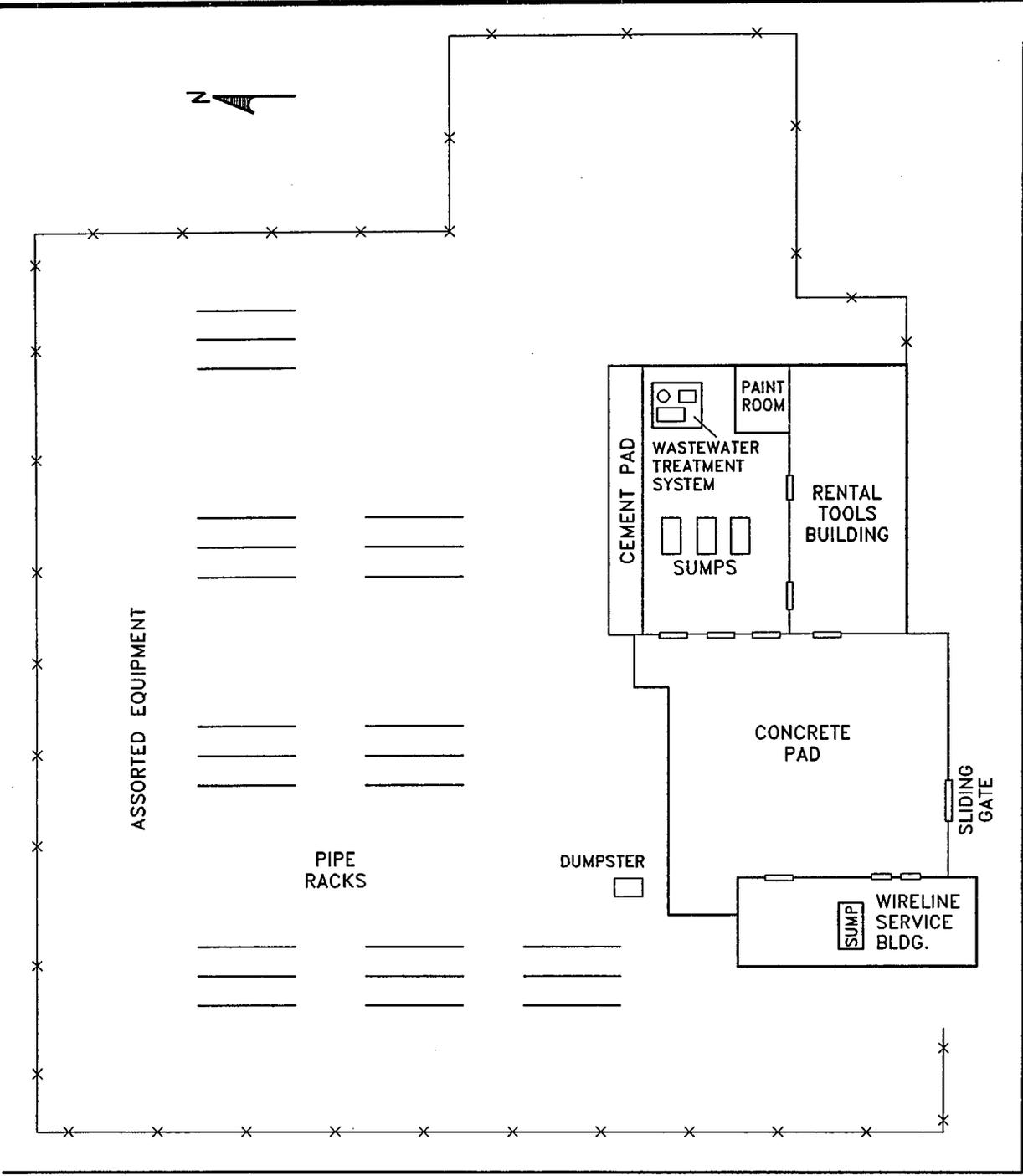
Scale 1:25,000 (at center)

2000 Feet

500 Meters

- Local Road
- US Highway
- Land
- Water
- River/Canal
- Intermittent River

9711064



A MUD DRILLING COMPANY

NOT TO SCALE

WILSON ENVIRONMENTAL
MANAGEMENT, INC.

FIGURE 2-3
SITE PLOT PLAN
WEATHERFORD ENTERRA, US, LP.
FARMINGTON, NEW MEXICO

DRAWN BY:	SH	DATE:	4-3-97	PROJECT NUMBER:	WEM 41003-99-1
CHEK'D BY:		REVISED:	4-9-97		

3. Materials Used at the Facility

Table 3-1 provides a list of materials currently used by the Highway 64 facility, the quantity stored and the anticipated storage location at the new facility. MSDS sheets for all chemical products are kept at the site. The facility does not use or store any drilling fluids, brines, acids or caustics.

TABLE 3-1
PRODUCTS USED/STORED AT FACILITY

Product Type/ Brand Name	Solid/Liquid	Type of Container	Number of Containers Stored	Storage Location	How Disposed
PAINT					
Krylon - red	aerosol	12 oz can	29	shop - flammible cabinet	empties put into municipal trash
Krylon - high temp aluminum	aerosol	12 oz can	6	shop - flammible cabinet	empties put into municipal trash
Krylon - brown	aerosol	12 oz can	3	shop - flammible cabinet	empties put into municipal trash
Krylon - yellow	aerosol	12 oz can	2	shop - flammible cabinet	empties put into municipal trash
Krylon - royal blue	aerosol	12 oz can	24	shop - flammible cabinet	empties put into municipal trash
Krylon - flat white	aerosol	12 oz can	18	shop - flammible cabinet	empties put into municipal trash
Krylon - bright copper	aerosol	12 oz can	12	shop - flammible cabinet	empties put into municipal trash
Diamond - black	aerosol	12 oz can	1	shop - flammible cabinet	empties put into municipal trash
Wellborn - silver aluminum	liquid	1 gallon can	7	shop - flammible cabinet	empties put into municipal trash
Various oil based enamels	liquid	1 quart can	11	shop - flammible cabinet	empties put into municipal trash
Industrial Coatings Specialties	liquid	1 gallon can	11	shop - flammible cabinet	empties put into municipal trash
Daimond - Vogel Enamel	liquid	5 gallon can	1	shop - flammible cabinet	empties put into municipal trash
Jones Blair Hi-Temp Enamel	liquid	1 gallon can	1	shop - flammible cabinet	empties put into municipal trash
PAINT THINNER					
Crown Xylol (xylene)	liquid	1 gallon can	1	shop - paint room	waste collected by Safety Klean
Crown Xylol (xylene)	liquid	5 gallon can	4	shop - paint room	waste collected by Safety Klean
Industrial Coatings thinner #25	liquid	5 gallon can	4	shop - paint room	waste collected by Safety Klean
SOLVENTS/DEGREASERS					
Safety Klean - parts cleaner	liquid	16 gallon drum	6	shop	returned to Safety Klean for recycling
mineral spirits	liquid	5 gallon drum	1	shop	waste collected by Safety Klean
FUELS					
Gasoline	liquid	5 gallon can	4	shop	none disposed
MISCELLANEOUS					
anti-freeze	liquid	55 gallon drum	1	shop	empties returned to vendor

TABLE 3-1
 PRODUCTS USED/STORED AT FACILITY

Brand Name	Solid/Liquid	Type of Container	Number of Containers Stored	Storage Location	How Disposed
LUBRICANTS/OILS					
ZEP - dry moly spray	aerosol	14 oz can	24	shop - flammible cabinet	empties put into municipal trash
Conoco - transmission fluid	liquid	5 gallon	3	shop - paint room	empties put into municipal trash
Exxon - transmission fluid	liquid	5 gallon	1	shop - paint room	empties put into municipal trash
Liquid-O-Ring	liquid	5 gallon	3	shop - paint room	empties put into municipal trash
76 Lubricants - UNAX AW 32	liquid	5 gallon	1	shop - paint room	empties put into municipal trash
76 Lubricants - Dexron	liquid	1 quart plastic	12	shop - paint room	empties put into municipal trash
Chevron - supreme motor oil	liquid	1 quart plastic	48	shop - paint room	empties put into municipal trash
Chevron - Delo motor oil	liquid	1 gallon plastic	18	shop - paint room	empties put into municipal trash
Wagner - brake fluid	liquid	1 gallon plastic	1	shop - paint room	empties put into municipal trash
L-X gas supplement	liquid	1 gallon plastic	1	shop - paint room	empties put into municipal trash
Mystik - multi purpose grease	solid	14 oz tube	13	shop - paint room	empties put into municipal trash
LE - multi purpose grease	solid	14 oz tube	50	shop - paint room	empties put into municipal trash
LE - multi purpose oil	liquid	16 gallon drum	3	shop	empties returned to vendor
Chevron - RRM motor oil	liquid	55 gallon drum	1	shop	empties returned to vendor
Chevron - Hydraulic oil	liquid	55 gallon drum	2	shop	empties returned to vendor
Chevron - Ultra duty grease	solid	5 gallon bucket	2	shop	empties put into municipal trash
Zee - general purpose grease	solid	5 gallon bucket	1	shop	empties put into municipal trash
Chevron - Delo motor oil	liquid	5 gallon bucket	1	shop	empties put into municipal trash
ZePreserve - penetrant	liquid	1 gallon can	1	shop - flammible cabinet	empties put into municipal trash
Lawson - protecting agent	aerosol	11.5 oz can	3	shop - flammible cabinet	empties put into municipal trash
MD-113 Moly Film lube	aerosol	12 oz can	12	shop - flammible cabinet	empties put into municipal trash
PN-105 - penetrant	aerosol	12 oz can	2	shop - flammible cabinet	empties put into municipal trash
Dyna System - anti-sieze	aerosol	15 oz can	1	shop - flammible cabinet	empties put into municipal trash
Pyrol - power steering fluid	liquid	1 quart plastic	4	shop - flammible cabinet	empties put into municipal trash

4. Sources/Quantities of Effluent and Waste Solids Generated

A description of the waste generating processes and the quantity of waste generated is provided below.

WASTE TYPE	COMPOSITION OR SOURCE	VOLUME PER MONTH	MAJOR ADDITIVES
Truck Wastes	None	NA	NA
Truck/Tank Washing	None	100 gallons of wash water	NA
Steam Cleaning of Equipment	Hydrocarbons (from cleaning of parts and equipment)	500 gallons	None
Solvents	Safety Kleen (parts cleaner from inspection/repair activities)	10 gallons	NA
Spent Acids and Caustics	None	NA	NA
Waste Slop Oil	Oil collected by water treatment system	6 gallon	NA
Waste Lubrication and Motor Oils	Hydraulic equipment/motors	6 gallons	NA
Oil Filters	None	NA	NA
Solids/Sludges from Sump	Sand, grit, water and hydrocarbons in sump	100 gallons	NA
Paint Wastes	Spent thinner	0.5 gallons	none
Other Waste Solids	Empty aerosol and lubricant containers	10 containers	NA

5. Description of Waste Collection/Storage/Disposal Procedures

5.1. Steam Cleaning of Parts/Equipment

Equipment returned from the field is steam cleaned in the rental tools building prior to any refurbishing or painting. Steam cleaning is performed at the north end of the shop. A floor drain system is used to collect the wash water for treatment and reuse. No soaps or detergents are used in the steam cleaning process. Water is supplied to the facility by the City of Farmington through underground lines.

Wash water in the Rental Tools building is collected by a series of three floor drains. The floor drains have a series of baffles to trap oil and sediments prior to discharging to a below grade sediment trap through a 3-inch PVC pipe. The sediment trap is located at the north side of the shop and measures approximately 3 feet long by 3 feet wide by 4 feet deep. Water from the sediment trap is then pumped to the water treatment recycle unit. Wash water from the Wireline building is transferred via underground line to the Rental Tools building sediment trap for treatment and reuse.

Water from the sediment trap is pumped to a Landa, Inc. water treatment system that consists of Alpha, Beta and Omega units. The water treatment system is used to remove any residual oil and sediment, adjust the pH of the water and inject ozone to control odors and destroy any remaining organics. The treated water from the Landa unit is then recycled back to the steam cleaner for reuse.

Oily sediment collected in the floor drains and sediment trap are removed and transported by truck to a permitted off-site facility for disposal. Oil collected by the floor drains and Landa units is removed, placed in drums and transported off-site by truck for recycling. The estimated quantity of sediment produced is 100 gallons per month. The estimated quantity of oil produced per month is 6 gallon per month.

Water used during the steam cleaning process is recycled to minimize water usage. Occasionally, the water has to be replaced due to increases in the Total Dissolved Solids (TDS) concentration of the water. When this occurs, the water in the Landa unit will be tested to determine chemical concentrations. If the water meets the pre-treatment requirements for the City of Farmington, the water will be collected by vacuum truck and transported to the City of Farmington's Wastewater Treatment Plant for further treatment prior to discharge. If the water does not meet the City's pre-treatment requirements, the water is drummed and transported off-site by truck for disposal. The estimated quantity of wash water to be produced per month is 600 gallons. Manifests for the last shipment of

sump sludge, oil and Safety Kleen solvent are provided at Appendix A. In addition, the hazardous waste characterization samples analytical results for sump sludge shipped off-site during February 1997 is also included in Appendix A. No BETX analysis is performed on this material since the analysis is not required for waste characterization and disposal.

The wash water collection sumps and separator in the Rental Tools building is underlain by a leachate detection/collection system. This system consists of a gravel layer and slotted PVC well pipe immediately beneath the drains and separator. Underlying the leachate collection system is a 2.2 feet thick layer of compacted clay which serves as secondary containment in case of a release from the wash water collection system. The leachate collection system is checked monthly for the presence of liquids, at the present time, no release from the collection system has been observed.

5.2. Solvent Use

Safety Kleen parts cleaner is used to clean pipe threads and to remove grease and oil from parts during equipment repair. The safety Kleen solvent is a petroleum naphtha based solvent that is classified as hazardous waste. Safety Kleen solvent is supplied in 16-gallon drums that connect to capture trays and a recycle system to minimize the quantity of solvent use. When the current drum of solvent has reached its loading capacity of oil/grease, the drum is removed from the capture tray, sealed and stored within the shop. A new drum of solvent is then attached to the capture tray. In addition to parts cleaner, any waste paint thinner (Xylene) is also collected by Safety Kleen.

The facility currently uses approximately 35 gallons of parts cleaner per month with approximately 20 gallons per month being returned to Safety Kleen for recycling. Safety Kleen collects the used solvent approximately every 90 days and transports the material by truck to the Safety Kleen recycling center located at 1722 Cooper Creek Road in Denton, Texas.

5.3. Waste Slop Oil, Waste Lubrication and Motor Oils

Waste oil produced during the steam cleaning of equipment is captured in the floor drains and wash water recycle system. This oil will be collected and placed into drums for storage prior to trucking off-site for recycling. In addition, waste oil is produced during the repair of certain oil field equipment such as Blow Out Preventers. This oil is captured during disassembly of the equipment and placed into drums. The drums of oil are stored within the shop prior to shipment of the oil to a permitted recycler. The oil is currently collected by D & D Oil of Bloomfield, New Mexico for recycling. The facility currently produces approximately 150 gallons of waste oil per year.

5.4. Solids/Sludges from Sumps

Solids and sludges are produced during the steam cleaning of equipment and is collected in the floor drains and the sediment trap (sump) within the shop. The sump wastes consist of a mixture of sand, grit and drilling mud that has been impacted with hydrocarbons. The sump material is pumped from the sump and into drums for storage in the shop until the material has been tested. Following testing, the drums are collected by truck and shipped to the disposal center. The facility drums are currently transported by Van Waters and Rogers of Denver, Colorado and transported to the Pollution Control Industries facility in East Chicago, Indiana. Approximately 100 gallons of mixed sump sludge, water and oil are produced every month. Analytical testing of this material indicates that it is a non-hazardous waste.

In addition to the sump waste, any used anti-freeze/water mixture from the facility forklifts is also placed into the drums for collection by Van Waters and Rodgers and disposal at the Pollution Control Industries facility. Facility personnel estimate that 20 gallons of used anti-freeze is produced annually.

5.5. Other Solid Wastes

Empty aerosol cans, lubricant and oil containers and miscellaneous materials are placed in an on-site dumpster for collection by truck. The materials in the dumpster are collected by the Waste Management of Four Corners and transported to the San Juan County Landfill for disposal. Waste Management of Four Corners annually verifies the composition of the waste stream. Empty oil drums are reclaimed by the vendors who sold the products to Weatherford Enterra.

6. Collection and Storage Systems

A description of the waste collection and storage systems for each of the waste streams described in the previous section is provided below.

6.1. Wastewater Collection/Treatment System

The wastewater collection and treatment system is located within the shop at the north end of the shop. The collection system was designed to collect the wastewater generated during the steam cleaning of returned equipment. The concrete floor of the shop is sloped so that all liquids drain to a floor drain. The floor drains measure 8 feet long by 3-foot wide by 4-foot deep and is constructed out of 6-inch thick, steel reinforced concrete. The floor drains have internal baffels to trap oil and sediment before they discharge to the sump pit. The floor drains are connected by 3-inch diameter below grade PVC pipe which gravity drain to the below grade oil/water separator. The sediment trap consists of a 3 feet long by 3 feet wide by 4 feet deep concrete sump.

Water from the sediment trap is pumped to the Landa Alpha unit to remove any residual oil. The water is then transferred to the Beta unit to remove any remaining sediments prior to being transferred to the Omega unit where the pH is adjusted and ozone is injected to control odors and destroy any remaining organics. The wash water recycling system which is located above grade in the northeast corner of the facility. Oil collected in the oil/water separator is pumped out and placed into drums for off-site shipment and recycling.

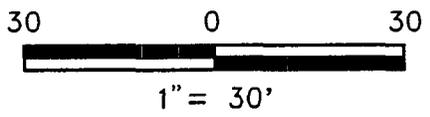
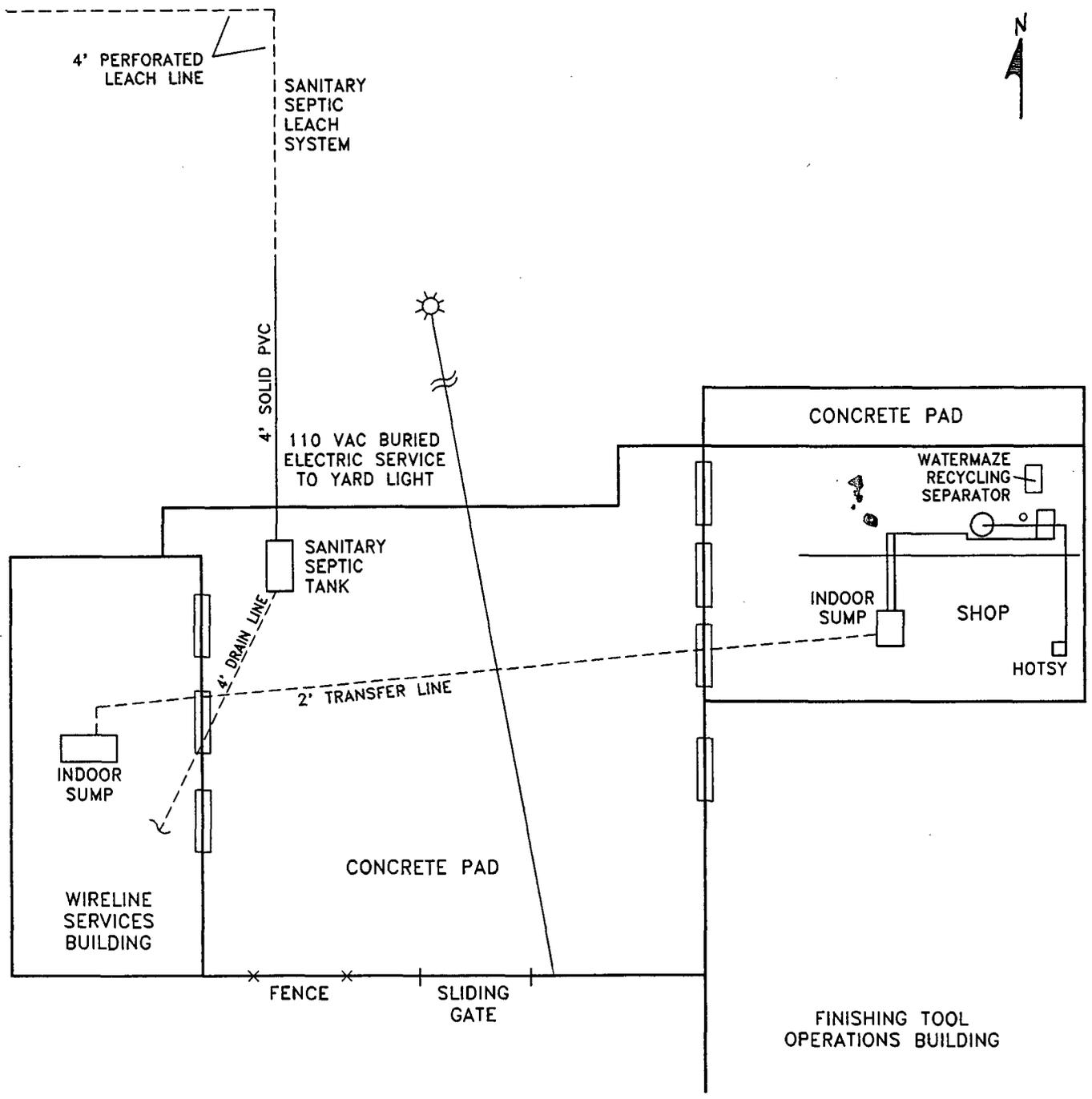
The wastewater collection system is underlain with a leachate detection/collection system and a secondary containment layer consisting of 2 feet of compacted clay. The leachate detection system is checked on a monthly basis for the presence of free liquids. Figures 6-1 illustrates the location of the wastewater underground lines at the facility. Figures 6-2 and 6-3 are construction drawings of the facility indicating the locations, dimensions and construction specifications for the wastewater collection system.

6.2. Underground Piping

The facility does not have any underground process lines. Underground wastewater lines consists of a PVC line between the sump in the wireline building and the rental tools building and PVC pipes connecting the rental tools floor drains and sediment trap to the wastewater treatment system. The underground lines within the rental tools building are secondarily contained with a compacted clay liner and monitored with a leachate detection/collection system.

The underground lines will be hydrostatically tested every five years with the first test to be conducted the summer of 1997. Testing will consist of apply a hydraulic head to the pipe with a maximum pressure of 4 PSI. The results of the hydraulic testing will be kept on site for review. If the testing indicates that the lines are leaking, the lines will be removed and replaced with new, cement sealed concrete lines.

MS711065



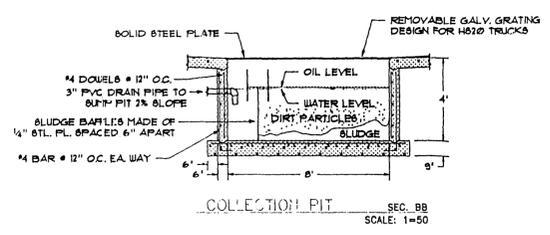
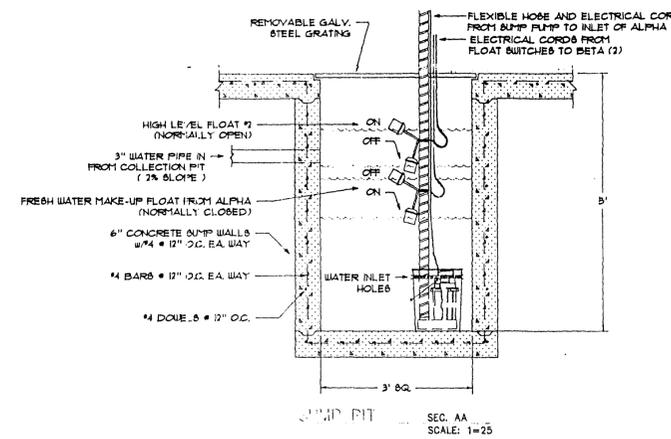
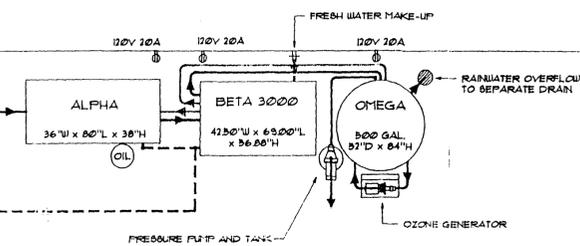
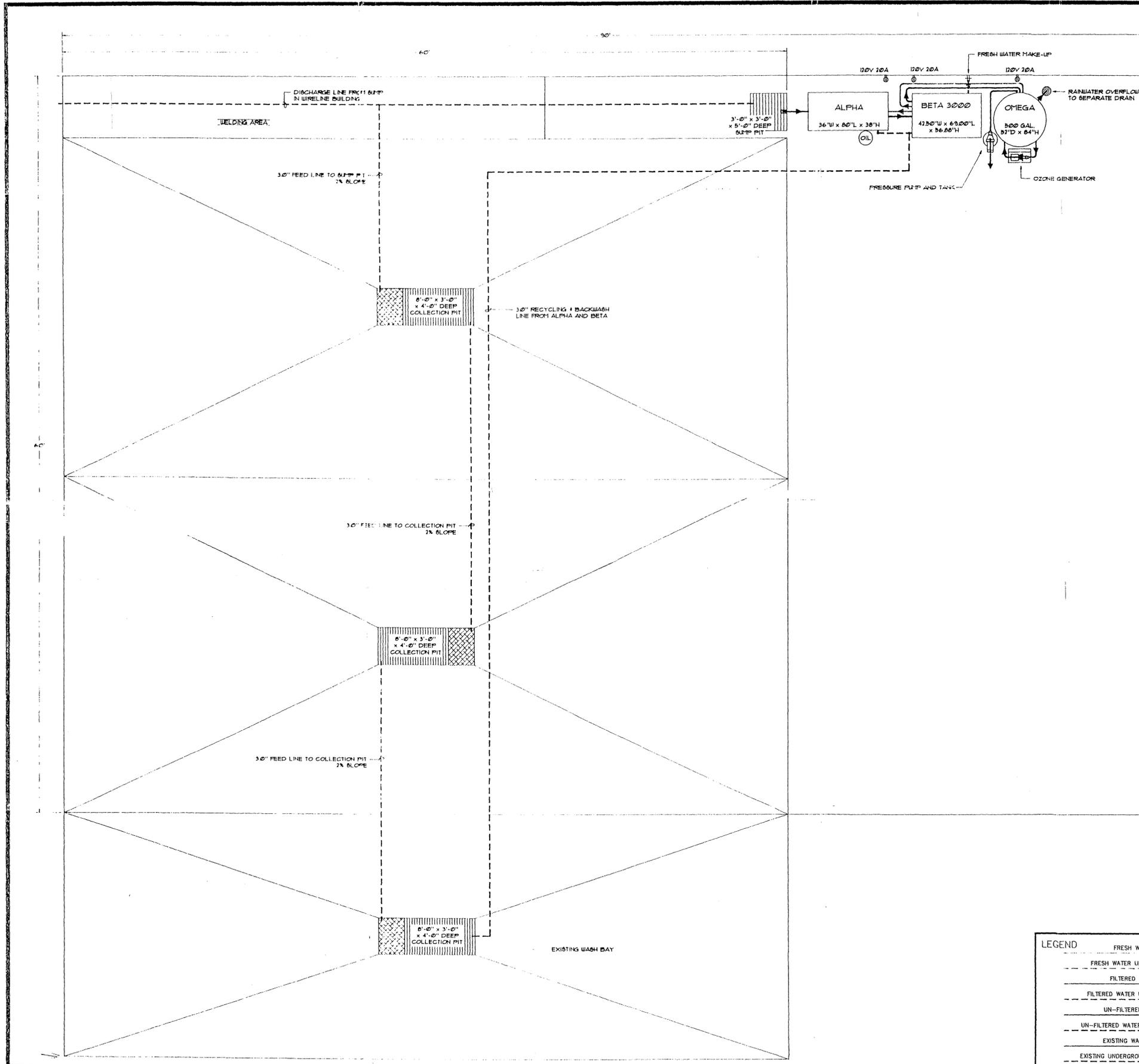
LEGEND

 - OVERHEAD GARAGE DOOR

WILSON ENVIRONMENTAL
MANAGEMENT, INC.

FIGURE 6-1
WASTEWATER SYSTEMS
WEATHERFORD ENTERRA, US, LP.
FARMINGTON, NEW MEXICO

DRAWN BY:	SH	DATE:	4-3-97	PROJECT NUMBER:	WEM 41003-99-1
CHEK'D BY:		REVISED:	4-9-97		



1. ALL INFORMATION SHOWN IS FOR REFERENCE ONLY AND IS INTENDED AS A GUIDELINE TO BE USED BY A PROFESSIONAL ENGINEER OR ARCHITECT IN PREPARING A FINAL DESIGN TO MEET THE SPECIFIC SITE REQUIREMENTS.
 2. WATER MAZE SYSTEM SHOULD BE ENCLOSED WITH PROPER FREEZE PROTECTION

RECEIVED
 APR 28 1997
 Environmental Bureau
 Oil Conservation Division

WATER MAZE
 A DIVISION OF LANDA INC.

CHKD BY:
BJE

LEGEND FRESH WATER FRESH WATER UNDERGROUND FILTERED WATER FILTERED WATER UNDERGROUND UN-FILTERED WATER UN-FILTERED WATER UNDERGROUND EXISTING WATER LINE EXISTING UNDERGROUND WATER LINE	LANDA INC Portland, Oregon		
	CUSTOMER NAME: HOMCO INT. LOCATION: FARMINGTON, NM.		
	SCALE: 1-50	MATERIAL: SEE DETAILS	DRAWING NUMBER: WM233A
	DATE: 04-09-91	DRAWN BY: T. HARRIS	
	DESCRIPTION: WASHPAD LAYOUT		

FIGURE 6-2

7. Existing Effluent and Solids Disposal

7.1. On-site Disposal

No on-site disposal of wastes will be performed at the facility. All wastes to be generated at the facility will be disposed at permitted off-site disposal facilities or recycled as appropriate. The facility does not have any surface impoundments, drying pits, leachfields, disposal pits or injection wells.

7.2. Off-site Disposal

All waste currently produced at the facility is disposed off-site. A description of each waste type and the off-site disposal method is described below.

7.2.1. Solvents

Waste solvents are collected in drums and collected by Safety Kleen. The drums are transported by truck to Safety Kleen's recycling facility located at 1722 Cooper Creek Road in Denton, Texas. Approximately 70 gallons of spent solvent is collected by Safety Kleen every 3 months.

7.2.2. Waste Oils

Waste oils removed from equipment or produced from the wash water oil/water separators are collected and placed into drums. The drums are then collected and shipped by truck to D & D Oil of Bloomfield, New Mexico for recycling. Approximately 150 gallons of waste oil is produced annually.

7.2.3. Sump Solids

Sediment collected in the sumps is placed into drums. The drums are then collected by Van Waters and Rodgers, who truck the wastes to the Pollution Control Industries facility in East Chicago, Indiana for disposal. Approximately 100 gallons of mixed sump sludges, water and oil are produced each month.

7.2.4. Miscellaneous Solid Wastes

Miscellaneous solid waste such as empty aerosol cans and clean containers are placed in the on-site dumpster. The dumpster is collected by Waste Management of Four corners and trucked to the San Juan County Landfill for disposal. Waste Management annually verifies the composition of the materials placed in the dumpster.

7.2.5. Industrial Wastewater

Industrial wastewater is reused following on-site treatment, however, when the TDS concentration of the water increases beyond specification for the steam cleaning equipment, the water is replaced. Approximately 2,000 gallons of water are replaced every 3 months. The water is collected by vacuum truck and transported to the City of Farmington's wastewater treatment plant for additional treatment and discharge.

8. Inspection, Maintenance and Reporting

The facility does not have any waste disposal units that require inspection, monitoring or reporting. Inspection, maintenance and leak detection is performed monthly on the wash water leachate detection system. In addition, the Landa water treatment units are inspected every day as part of the facility's operational practices. The water treatment unit and container storage area within the shop are both located in areas where they can be observed on a daily basis by facility employees. The procedures to be used for the inspection of these units is described in the following section.

8.1. Containment of Precipitation and Runoff

Steam cleaning, repair and painting of equipment is performed inside the shop. Precipitation or stormwater runoff does not come into contact with these process area. Pipe thread inspection is performed outdoors at the pipe inspection rack. The rack is underlain at each end with sloped concrete pads to collect any pipe dope or solvent that drips from the pipe threads. The pads were constructed above grade to prevent run-off from covering the pads. Any material that falls on the concrete pads is collected with absorbent pads which are placed in drums for disposal. Any water collected on the pads is inspected to determine if the water is impacted. Impacted water is transferred to the water treatment system while unimpacted water is allowed to evaporate or swept off the pad.

9. Spill/Leak Prevention and Reporting Procedures

9.1. Inspections

A description of the inspection procedures and inspection schedule for the waste storage generating and storage areas are described below. In addition to scheduled inspections, most areas of the facility is observed on a day to day basis by the employees.

9.1.1. Wash Water Collection System

The below grade structures of the wastewater collection and treatment system are secondarily contained with a compacted clay liner. A leachate detection system consisting of a gravel layer with slotted PVC piping was installed between the bottom of the floor drains and overlies the compacted clay layer. Riser pipes from the leachate detection system are located where they can be inspected monthly to determine if there is free liquid within the detection system. Results of the inspection are recorded in an inspection log kept at the facility.

If the monthly inspection indicates that liquids are present within the secondary containment system. The source of the release will be determined and promptly repaired. All liquids will be removed from the secondary containment via the leak detection well and additional evaluations of the release will be performed on an as-needed basis to determine if impacts to the soils or groundwater has occurred.

9.1.2. Water Treatment System

The Landa water treatment system will be inspected daily as part of facility operations to ensure proper operation of the system. Any release from the water treatment system will be contained with absorbent material and pumped back to the treatment system or into drums for disposal.

9.2. Containment and Cleanup

Weatherford Enterra's corporate policy is to comply with all applicable environmental laws and regulations. In addition, Weatherford Enterra try to build, maintain and upgrade facilities in order to minimize impacts to the environment. Weatherford Enterra personnel are present at the site during most of the daylight hours and personnel receive training in spill containment and cleanup to minimize impacts to the environment. Releases of materials require reporting to Weatherford Enterra's Corporate Environmental Department and to applicable government agencies.

Leaks, spills and drips will be handled as follows:

- Small spills on pavement will be absorbed with sorbent pads or granular oil absorbent material. The pads/oil sorb will be placed into drums for off-site disposal by an approved disposal contractor.
- Small spills on soil will be shoveled into drums for off-site disposal by an approved disposal contractor.
- Large spills will be contained with temporary berms. Free liquids will be pumped into drums. Contaminated soils will be placed into drums or other leak-proof container and disposed as applicable. Additional characterization and removal of impacted soils will be performed on as needed basis.

The facility maintains spill kits which contain sorbent pads, granular sorbent, small booms and drums to temporarily store impacted material. The largest liquid containers maintained at the site are 55 gallon drums. All drums will be stored either in the shop.

9.3. Reporting of Emergency Incidents

In the event of a release of materials from the site of oil or other water contaminant in such quantities as may be detrimental to human health, animal or plant life or unreasonably interfere with the public welfare or use of property, notification will be given to the ODC. Notification will be given if more than five (5) barrels of material is released per NMOC Rule 116. Notification will also be given if any contaminant reaches a watercourse or enters a stream or river.

Notification will be given orally to the OCD District Office as soon as possible, but no later than 24 hours, after the discharge. Notification will consist of the following information:

- The name, address and telephone number of the facility and the name and phone number of the person in charge of the facility;
- The date, time and duration of the discharge;
- The source and cause of the discharge;
- A description of the discharge including chemical composition;
- The estimated volume of the discharge, and
- The actions taken to mitigate immediate damage from the discharge.

Within ten days of the discharge, the operator will also submit, in duplicate, the above information in writing to OCD District Office.

The OCD District Office is located at the following address and phone number.

1000 Rio Brazos Road
Aztec, NM 87410
Phone: (505) 334-6178
Fax: (505) 334-6170

An OCD Notification of Fire, Breaks, Spills, Leaks and Blowouts form illustrating the requested notification information is provided as Appendix D. This form will be completed by the Facility Manager or his designee for all reportable releases. A copy of the form will be transmitted to the OCD District Office, Weatherford Enterra Corporate Environmental in Houston, Texas and a copy will be retained at the facility.

10. Site Characteristics

10.1. Nearby Water Bodies/Watercourses

Water bodies and watercourses within one mile of the facility are shown on Figure 2-2. The water bodies within one mile of the facility are the San Juan River and an unnamed, private irrigation lake. Several intermittent drainage pathways are also located around the facility with Echo Ditch being located south of the facility and unnamed drainages being located north, west and east of the facility. The unnamed drainages all enter Echo Ditch prior to discharging to the San Juan River.

10.2. Water Wells

A search was performed to determine if any water wells are located within 0.25 mile of the facility perimeter. The search indicated one well within 0.25 miles of the facility perimeter. The well is located northwest of the facility and has a total depth of 52 feet. The static water level is listed as 32 feet below grade. The well is used as an irrigation well. No information was available on the water quality of the well, however, discussions with water well drillers in Farmington indicate that the shallow groundwater in the area is of sufficient quality to be used for domestic uses and has a TDS less than 10,000 mg/l. The location of this well is shown on Figure 10-1. Appendix C is a copy of the Declaration of Owner of Underground Water Right for the identified well.

10.3. Groundwater

No wells are present on-site to provide groundwater data. Personal interviews were held with engineers from Basin Engineering in Farmington, New Mexico. Basin Engineering performed the soil properties testing prior to design and construction of the facility. Interviews were also held with water well drillers from Shorty Thompson Well Drilling Service in Farmington, New Mexico. The interviews indicated that groundwater is present beneath the facility at a depth of approximately 30 to 45 feet below grade. No TDS information for the groundwater was available, however, the groundwater is of sufficient quality to be used for domestic purposes and human consumption and is assumed to contain less than 10,000 mg/l TDS.

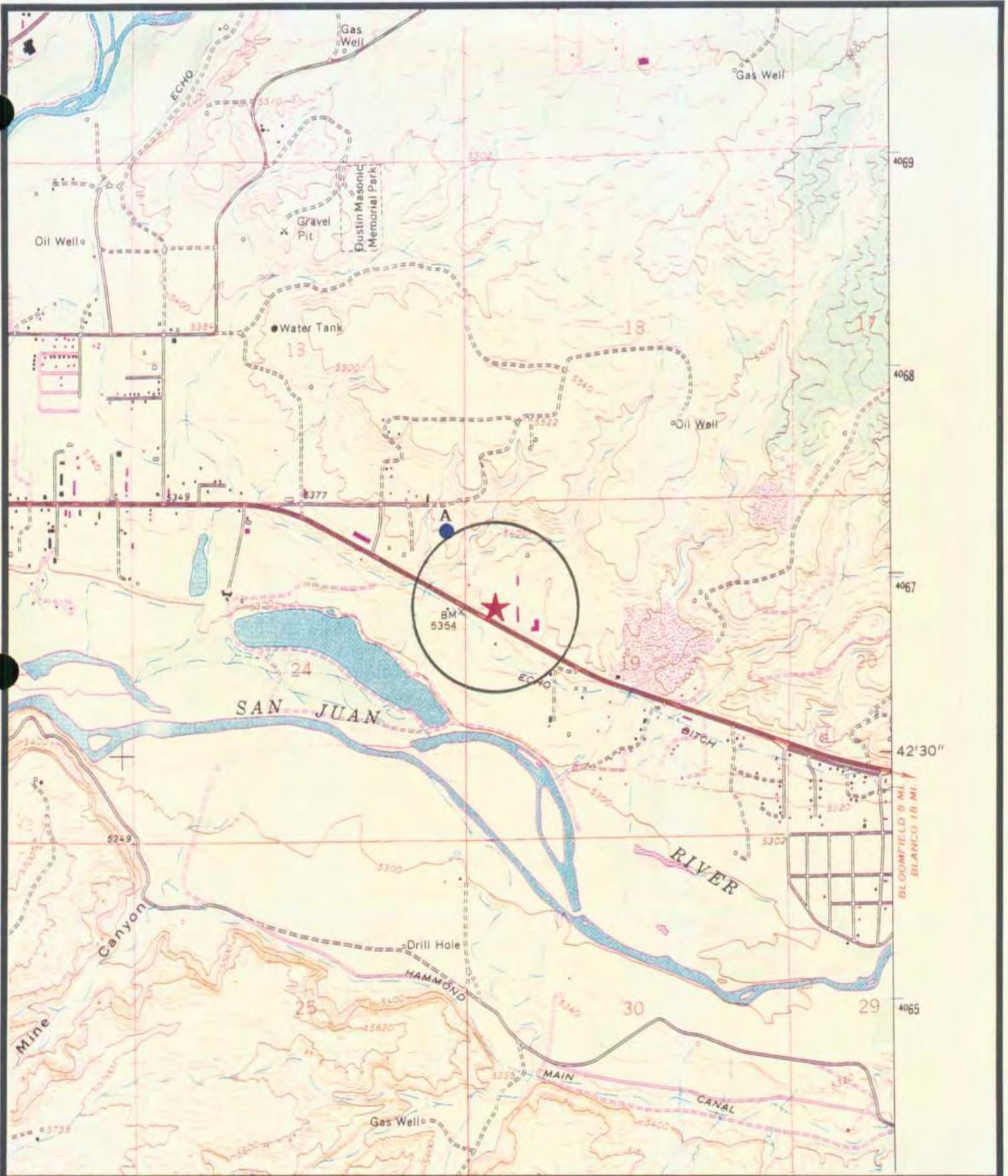
Available information indicates that groundwater flow is generally to the south toward the San Juan River. The Nacimiento Formation is the aquifer in the vicinity of the Weatherford Enterra facility.

10.4. Stratigraphy

The facility is located upon alluvium sands consisting of fine to medium grained sands with minor amounts of silt and clay and some gravel at depth. The alluvium is underlain by the Nacimiento Formation at a depth of approximately 15 feet. The Nacimiento Formation is comprised of sandstones and mudstone. The sandstones are medium to very coarse-grained, immature to submature arkoses.

10.5. Flooding Potential

The facility is located on a natural bench and is not within the flood plain of the San Juan River which is the closest major waterway. Several intermittent streams (arroyos) are located west and north of the facility. The facility does not appear to be located within a federally designated 100 or 500-year flood plain. As such, special flood protection measures are not required.



Wilson Environmental Management, Inc.

Project #

1/4 Mile Water Well Survey
 Prepared by Agency Information Consultants
 AIC #02-0048636 03/26/97

Subject Property:

Weatherford Enterra, 5432 U.S. 64, Farmington, NM

Farmington, NM (Photorevised 1979)
 7.5' USGS Quad, Scale 1:24000

11. Other Compliance Information

The facility does not perform any on-site disposal or have any waste disposal units. All products and wastes are contained to prevent accidental discharge to the environment and all wastes are transported off-site for recycling or disposal. In the event of a release, Weatherford Enterra US, Limited Partnership will comply with the requirements of NMOCD Rule 116 and WQCC Section 1203 spill reporting.

APPENDIX A
WASTE DISPOSAL MANIFESTS AND ANALYTICAL RESULTS



FOR SERVICE CALL TRAILER
505 884-2277 MIKE WILKINSON

DOC EXP
03/01/97

SCHEDULED SERVICE WEEK	SCHEDULED	REFERENCE NUMBER		
97-01	8	243740		
CREDIT CODE	PREV. BALANCE	BAL. OVER 60 DAYS		
C				
BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
07	1503	YES	106	001
TAX EXEMPTION NUMBER				

GENERATOR

7-008-01-4092-6
WEATHERFORD US INC
5432 HWY 64
FARMINGTON NM 87401

BILL TO

7-008-01-0815
WEATHERFORD US INC
PO BOX 2344
FARMINGTON NM 87499

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
12/31/90	5828		505-327-6341	J2-120-2482			.05503	.05503	.05503

DEPT	SERVICE/PRODUCT	SERIAL NUMBER	REMARKS	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WM DISCOUNT	SOLVENT			CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS)	CHANGE SCH. DATE (YY WW)	INV. CODE	PROMO NO.	RELEASE NO.
									CLEAN	SPENT	# OF CONT.							
1	0051150	00026636	/GRAYNILLS	1	58.00	3.20	61.86	0.00			7	1	975	12				
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

TOTAL-SERVICE/PRODUCTS	58.00	3.20	61.86	0.00	CHECK APPROPRIATE BOXES	GOOD	POOR	DECALS IN PLACE AND LEGIBLE	YES	NO	MACHINE PROPERLY GROUNDED	YES	NO
					MACHINE CONDITION & CLEANLINESS	<input type="checkbox"/>	<input type="checkbox"/>	FUSIBLE LINK INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	<input type="checkbox"/>	<input type="checkbox"/>
					LAMP ASSEMBLY CONDITION	<input type="checkbox"/>	<input type="checkbox"/>	EMERGENCY CLOSING OF LID UNOBSTRUCTED	<input type="checkbox"/>	<input type="checkbox"/>	SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	<input type="checkbox"/>	<input type="checkbox"/>

MANIFEST NO.	USEPA TRANSPORTER ID NO.	GENERATOR USEPA ID NO.	GENERATOR STATE ID NO.
XXXXX	ILD584909202		

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)	12. CONTAINERS NO.	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER	53	153055	CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.
WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA)	1	7	6	975			0 TO 220 LBS./MONTH
NA199J PGIII (0039, D008, D012, D040) (ERG #128) 6.7#/GAL							INITIALS
							220 LBS. TO 2,200 LBS./MONTH
							INITIALS
							GREATER THAN 2,200 LBS./MONTH
							INITIALS

DESIGNATED FACILITY NAME AND ADDRESS: SAFETY-KLEEN CORP., 4210A HAWKINS RD, FARMINGTON, NM 87401
 USA EPA ID NO. ND9960098849
 STATE ID NO.

PAYMENT RECEIVED SECTION	CASH <input type="checkbox"/>	TOTAL RECEIVED	APPLY PAYMENT TO:	
	CHECK NUMBER		<input type="checkbox"/> TODAY'S SERVICE/SALE	<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
PREVIOUS CREDIT CARD NO.	INVOICE #	AMOUNT \$	INVOICE #	AMOUNT \$
CREDIT CARD NO.	AMEX	VISA	MC	EXP. DATE
CUSTOMER REFERENCE				

LDR MESSAGE	
LDR NOT REQ'D	
MANIFEST CODE	SEQ #
DP	126
IN THE EVENT OF AN EMERGENCY CALL	

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.

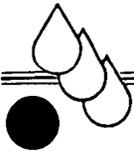
This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Print Customer Name: B. Weatherford

By: [Signature]
Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WM DISCOUNT (FROM ABOVE)	
TOTAL DUE	61.86
USA	243740
USA	243740

SERVICE AND SALES ACCOUNTS



D & D
Oil

USED OIL RECYCLING MANIFEST / RECEIPT

4194

DATE 1-13-97 SERVICE CALL # _____

GENERATOR

Generator Name Wythebaوند Enterprises (Well Head)

Phone 377-6341 Contact _____

Pickup Address 15435 US Hwy 64

City Farmington State NM Zip 87401

Mailing Address 15435 US Hwy 64

City Farmington State NM Zip 87401

U.S. DOT DESCRIPTION	GROSS GALLONS	PRICE/GAL	TOTAL
OIL NOS Combustible Liquid NA 1270			
<u>USED OIL</u>	<u>150</u>	<u>0</u>	<u>35.00</u>
			<u>2.10</u>

FORM OF PAYMENT
 CASH: _____
 CHECK: _____
 NO: _____
 CHARGE: _____
 P.O. #: _____

CHARGE TERMS: NET 10 DAYS

TAX
 TOTAL DUE \$ 37.10
 D&D OIL

Special handling instructions _____

T D FOR HALOGENS BY: _____

Steve Brown

GENERATORS CERTIFICATION:

This used oil is described to the best of my ability and it was delivered to a licensed Used Oil Recycler. There are no Listed Hazardous Materials in this product.

Printed / Typed Name _____ Signature Steve Brown Date _____

TRANSPORTER, STORER AND TREATOR OF USED OIL

REMIT TO: EPA # NMD 986682102
 D & D Oil
 P.O. Box 670
 Bloomfield, NM 87413
 (505) 632-9130

**IN CASE OF
 SPILL CONTACT:
 D & D Oil
 1-505-632-9130**

TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Printed / Typed Name Steve Brown Signature Steve Brown Date 1-13-97

TREATMENT FACILITY OPERATOR

The described used oil was handled by me, the treatment facility named above, and was accepted.

Printed / Typed Name Steve Brown Signature Steve Brown Date 1-13-97

% B.S. & W.	TOTAL GALLONS DEDUCTED	NET GALLONS	AMOUNT DUE GENERATOR
			\$ _____

NON-HAZARDOUS WASTE MANIFEST

ORDER # 87250

print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N M O 9 8 6 6 8 2 1 1 0	Manifest Document No. 0 2 1 1 7	2. Page 1 of 2
3. Generator's Name and Mailing Address WEATHERFORD-INTERNATIONAL FACILITY #35001 5432 HIGHWAY 64 FARMINGTON, NM 87401				
4. Generator's Phone (505 327-6341				
5. Transporter 1 Company Name VAN WATERS & ROGERS INC.	6. US EPA ID Number N M D 0 7 6 4 6 7 3 6 4	A. State Transporter's ID		
		B. Transporter 1 Phone 505-842-6303		
7. Transporter 2 Company Name VAN WATERS & ROGERS	8. US EPA ID Number C O D 0 7 5 7 7 0 5 6 0	C. State Transporter's ID		
		D. Transporter 2 Phone 303-388-5651		
9. Designated Facility Name and Site Address POLLUTION CONTROL INDUSTRIES 4343 KENNEDY AVENUE EAST CHICAGO, IN 46312		10. US EPA ID Number I N D 0 0 0 6 4 6 9 4 3	E. State Facility's ID	
		F. Facility's Phone 219-397-3951		

11. WASTE DESCRIPTION	Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. NON-HAZARDOUS (SUMP SLUDGE)		D M		
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above 11a. 970200890 SUMP SLUDGE	G. Handling Codes for Wastes Listed Above
-------------------------------------------------------------------------------------	-------------------------------------------

15. Special Handling Instructions and Additional Information
 WEAR APPROPRIATE PROTECTIVE GEAR WHEN HANDLING.
 EMERGENCY CONTACT: CHEMTREC: 1-800-424-9300. CALLER MUST IDENTIFY VAN WATERS & ROGERS AS SHIPPER.



16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

GENERATOR'S FACILITY

PCI MATERIAL DATA SURVEY

A.
 Generator Name: Enterra Oil Field Rental Billing Name: VAN WATERS & ROGERS INC.
 Address: 2855 Southside River Road Address: 4300 Holly Street
Farmington, NM 87401 Denver, CO 80216
 Technical Contact: Luke Owens Phone: (801) 583-3667 Fax: (801) 583-4660
 Federal EPA ID No: CESQG State ID No: _____ S.I.C. Code: 3533
 PCI Sales Rep: Bob Brown Broker Contact: Bernice Gault VWR Sales Rep: _____
 Common Name of Waste: Sump Sludge/Solid Bernice Gault
 Original Process Generating Waste (must be specific): Sump Clean Out
 Method of Shipment: 55 gallon Metal Drums, Barrels, Kegs Quantity: 5, Quarterly

B. PHYSICAL PROPERTIES @ 25C (77F)
 Color: Dark Dirt % Total Halogens: _____ Specific Gravity: _____
 Odor: Mild Blw/lb: N/A pH: N/A Flashpoint: N/A
 Physical State: Solid

C. CHEMICAL COMPOSITION
 (In Hazardous and Non-Hazardous components and corresponding range)

Component:	%
Sand	65.00 - 90.00
Dirt	75.00 - 99.00
Water	0.00 - 1.00
Oil	0.00 - 1.00
Antifreeze	0.00 - 1.00

OTHER COMPONENTS

	Y/N	TOTAL (PPM)
Cyanides	N	
Sulfides	N	
Reactive Cyanides	N	
Reactive Sulfides	N	
Amines	N	
PCB's	N	
Phenolics	N	

HAZARDOUS PROPERTIES

X None
 Water Reactive _____
 Shock Sensitive _____
 Radioactive _____
 Corrosive _____
 Dioxins _____
 Benzene Neshap _____
 Air Reactive _____
 Pyrophoric _____
 Pesticide, Insecticide _____
 Etiological _____
 Explosive _____
 Polymerizable _____
 Pathogen _____
 Biological _____

Other: _____

D. Based on knowledge or analysis, provide an actual value or value for TCLP concentrations or total metal concentrations in ppm.

INORGANIC CHARACTERISTICS

D004 Arsenic	< 5.0
D005 Barium	< 100.0
D006 Cadmium	< 1.0
D007 Chromium	< 5.0
D008 Lead	< 5.0
D009 Mercury	< 0.2
D010 Selenium	< 1.0
D011 Silver	< 5.0
Copper	
Zinc	

ORGANIC CHARACTERISTICS

D012 Endrin	< 0.02
D013 Lindane	< 0.4
D014 Methoxychlor	< 10.0
D015 Toxaphene	< 0.5
D016 2,4-Dichlorophenoxyacetic acid	< 10.0
D017 2,4,5-TP (Silvex)	< 1.0
D018 Benzene	< 0.5
D019 Carbon Tetrachloride	< 0.5
D020 Chlordane	< 0.03
D021 Chlorobenzene	< 150.0
D022 Chloroform	< 6.0
D023 o-Cresol	< 200.0
D024 m-Cresol	< 200.0
D025 p-Cresol	< 200.0
D026 Creosol	< 300.0
D027 1,4-Dichlorobenzene	< 7.5
D028 1,2-Dichloroethane	< 0.5
D029 1,1-Dichloroethylene	< 0.7
D030 2,4-Dinitrotoluene	< 0.13
D031 Heptachlor (and it's epoxide)	< 0.008
D032 Hexachlorobenzene	< 0.13
D033 Hexachlorobutadiene	< 0.5
D034 Hexachlorocyclopentadiene	< 3.0
D035 Methyl Ethyl Ketone	< 200.0
D036 Nitrobenzene	< 2.0
D037 Pentachlorophenol	< 100.0
D038 Pyridine	< 5.0
D039 Tetrachloroethylene	< 0.7
D040 Trichloroethylene	< 0.5
D041 2,4,5-Trichlorophenol	< 400.0
D042 2,4,6-Trichlorophenol	< 2.0
D043 Vinyl Chloride	< 0.2

E. RCRA CHARACTERIZATION

1. Is this material a "Hazardous Waste" under 40CFR 261.3? N
 2. Is this a "Characteristic Waste" N If "Yes" is it: D001 Ignitable D002 Corrosive D003 Reactive
D004-D043 Toxic, give specific codes
 3. Is this an "F" or "K" waste or mixed with one? If "Yes" give waste codes from 40CFR 261.31 and/or 261.32: _____
 4. Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (a) or (b)? N If "Yes" give codes _____
 5. Is this a state regulated waste? If "Yes" give code _____

DOT CHARACTERIZATION

1. Is this a "Hazardous Substance/Marine Pollutant" as defined in 49CFR D.O.T. N
 2. If "Yes" give the proper D.O.T. Shipping Description from 49 CFR 172.101: _____
Non-Hazardous Waste Material
UN/NA#: _____
 3. Hazardous Class: _____ RQ: _____ 0.99 Packaging Group: _____
 4. Give the two primary hazardous constituents: _____

FOR INTERNAL USE ONLY

Date Received: _____
 Date Approved: _____
 Treatment Method: _____

GENERATOR CERTIFICATION

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

NAME (Print): Bob Brown Title: Owner (Wilson)
 SIGNATURE: _____ Date: 3-19-97

PCI MATERIAL DATA SURVEY

A.

Generator Name: Enterra Oil Field Rental Billing Name: VAN WATERS & ROGERS INC.
 Address: 2855 Southside River Road Address: 4308 Holly Street
Farmington, NM 87401 Denver, CO 80216

Technical Contact: Luke Owens Phone: (801) 583-3667 Fax: (801) 583-4660
 Federal EPA ID No: CESQG State ID No: _____ S.I.C. Code: 3533
 PCI Sales Rep: Bob Brown Broker Contact: Bernice Gaunt VWR Sales Rep: _____
 Common Name of Waste: Sump Liquid Bernice Gaunt
 Original Process Generating Waste (must be specific): Sump Clean Out
 Method of Shipment: 55 gallon Metal Drums, Barrels, Kees Quantity: 5, Quarterly

B. PHYSICAL PROPERTIES @ 25C (77F)

Color: Dark Liquid % Total Halogens: _____ Specific Gravity: _____
 Odor: Mild Btu/lb: N/A pH: N/A Flashpoint: N/A
 Physical State: Liquid

C. CHEMICAL COMPOSITION
 (List Hazardous and Non-Hazardous components and corresponding range)

Component:	%
Sand	1.00 - 5.00
Dirt	1.00 - 5.00
Water	50.00 - 75.00
Oil	25.00 - 50.00
Axifreeze	25.00 - 50.00

OTHER COMPONENTS

	Y/N	TOTAL (PPM)
Cyanides	N	
Sulfides	N	
Reactive Cyanides	N	
Reactive Sulfides	N	
Amines	N	
PCB's	N	
Phenolics	N	

HAZARDOUS PROPERTIES

X None
 Water Reactive
 Shock Sensitive
 Radioactive
 Corrosive
 Dioxins
 Benzene Neshap
 Air Reactive
 Pyrophoric
 Pesticide, Insecticide
 Enological
 Explosive
 Polymerizable
 Pathogen
 Biological

Other: _____

D. Based on knowledge or analysis, provide an actual value or value for TCLP concentrations or total metal concentrations in ppm.

INORGANIC CHARACTERISTICS

D004 Arsenic	< 5.0
D005 Barium	< 100.0
D006 Cadmium	< 1.0
D007 Chromium	< 5.0
D008 Lead	< 5.0
D009 Mercury	< 0.2
D010 Selenium	< 1.0
D011 Silver	< 5.0
Copper	
Zinc	

ORGANIC CHARACTERISTICS

D012 Endrin	< 0.02
D013 Lindane	< 0.4
D014 Methoxychlor	< 10.0
D015 Toxaphene	< 0.5
D016 2,4-Dichlorophenoxyacetic acid	< 10.0
D017 2,4,5-TP (Silvex)	< 1.0
D018 Benzene	< 0.3
D019 Carbon Tetrachloride	< 6.5
D020 Chlordane	< 0.03
D021 Chlorobenzene	< 100.0
D022 Chloroform	< 6.0
D023 o-Cresol	< 200.0
D024 m-Cresol	< 200.0
D025 p-Cresol	< 200.0
D026 Cresol	< 200.0
D027 1,4-Dichlorobenzene	< 7.5
D028 1,2-Dichloroethane	< 0.5
D029 1,1-Dichloroethylen	< 0.7
D030 2,4-Dinitrochlorobenzene	< 0.15
D031 Heptachlor (and it's epoxide)	< 0.008
D032 Hexachlorobenzene	< 0.13
D033 Hexachlorobutadiene	< 0.5
D034 Hexachlorocyclopentadiene	< 3.0
D035 Methyl Ethyl Ketone	< 200.0
D036 Nitrobenzene	< 2.0
D037 Pentachlorophenol	< 100.0
D038 Pyridine	< 5.0
D039 Tetrachloroethylene	< 0.7
D040 Trichloroethylene	< 0.5
D041 2,4,5-Trichlorophenol	< 400.0
D042 2,4,6-Trichlorophenol	< 2.0
D043 Vinyl Chloride	< 0.2

E. RCRA CHARACTERIZATION

1. Is this material a "Hazardous Waste" under 40CFR 261.17 N
 2. Is this a "Characteristic Waste"? If "Yes" is it: D001 Ignitable D002 Corrosive D003 Reactive
 D004-D043 Toxic, give specific codes
 3. Is this an "F" or "K" waste or mixed with one? If "Yes" give waste codes from 40CFR 261.31 and/or 261.32:
 4. Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? If "Yes" give codes
 5. Is this a state regulated waste? If "Yes" give code

DOT CHARACTERIZATION

1. Is this a "Hazardous Substance/Marine Pollutant" as defined in 49CFR D.O.T?
 2. If "Yes" give the proper D.O.T. Shipping Description from 49 CFR 172.101:

 Non-Hazardous Waste Material
 UN/NA#:
 3. Hazardous Class: RQ: 0.00 Packaging Group:
 4. Give the two primary hazardous constituents:

FOR INTERNAL USE ONLY

Date Received _____
 Date Approved _____
 Treatment Method _____

GENERATOR CERTIFICATION

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omission of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

NAME (Print) Luke Owens Title PROJECT MANAGER (L. OWENS@WILSON)
 SIGNATURE [Signature] Date 3-19-97

PCIMATERIAL DATA SURVEY

A.
 Generator Name: Enterra Oil Field Rental Billing Name: VAN WATERS & ROGERS INC.
 Address: 2855 Southside River Road Address: 4300 Holly Street
Farmington, NM 87401 Denver, CO 80216
 Technical Contact: Luke Owens Phone: (801) 583-3667 Fax: (801) 583-4660
 Federal EPA ID No: CESQC State ID No: _____ S.I.C. Code: 3533
 PCI Sales Rep: Bob Brown Broker Contact: Bernice Gausst VWR Sales Rep: _____
 Common Name of Waste: Sump Sludge _____
 Original Process Generating Waste (must be specific): Sump Clean Out _____
 Method of Shipments: 55 gallon Metal Drums, Barrels, Kegs Quantity: 5, Quarterly

B. PHYSICAL PROPERTIES @ 25C (77F)
 Color: Dark Mud % Total Halogens: _____ Specific Gravity: _____
 Odor: Mild Btu/lb: N/A pH: N/A Flashpoint: N/A
 Physical State: Semi Solid

C. CHEMICAL COMPOSITION
 (List Hazardous and Non-Hazardous components and corresponding range)
 Component: _____

Sand	35.00 - 50.00
Dirt	35.00 - 50.00
Water	2.00 - 5.00
Oil	2.00 - 5.00
Antifreeze	2.00 - 5.00

OTHER COMPONENTS

	Y/N	TOTAL (PPM)
Cyanides	N	
Sulfides	N	
Reactive Cyanides	N	
Reactive Sulfides	N	
Amines	N	
PCB's	N	
Phenolics	N	

HAZARDOUS PROPERTIES

X	Name
	Water Reactive
	Shock Sensitive
	Radioactive
	Corrosive
	Dioxin
	Benzene Nebsp
	Air Reactive
	Pyrophoric
	Pesticide, Insecticide
	Etiological
	Explosive
	Polymerizable
	Pathogen
	Biological

Other: _____

D. Based on knowledge or analysis, provide an actual value or value for TCLP concentrations or total metal concentrations in ppm.

INORGANIC CHARACTERISTICS

D004 Arsenic	< 5.0
D005 Barium	< 100.0
D006 Cadmium	< 1.0
D007 Chromium	< 5.0
D008 Lead	< 5.0
D009 Mercury	< 0.2
D010 Selenium	< 1.0
D011 Silver	< 5.0
Copper	
Zinc	

ORGANIC CHARACTERISTICS

D012 Endrin	< 0.02
D013 Lindane	< 0.4
D014 Methoxychlor	< 10.0
D015 Toxaphene	< 0.5
D016 2,4-Dichlorophenoxyacetic acid	< 10.0
D017 2,4,5-TP (Silvex)	< 1.0
D018 Benzene	< 0.5
D019 Carbon Tetrachloride	< 0.5
D020 Chlordane	< 0.03
D021 Chlorobenzene	< 100.0
D022 Chloroform	< 6.0
D023 o-Cresol	< 200.0
D024 m-Cresol	< 200.0
D025 p-Cresol	< 200.0
D026 Cresol	< 200.0
D027 1,4-Dichlorobenzene	< 7.5
D028 1,2-Dichloroethane	< 0.5
D029 1,1-Dichloroethylene	< 0.7
D030 2,4-Dinitrotoluene	< 0.13
D031 Heptachlor (and it's epoxide)	< 0.008
D032 Hexachlorobenzene	< 0.13
D033 Hexachlorobutadiene	< 0.5
D034 Hexachloroethane	< 3.0
D035 Methyl Ethyl Kathon	< 200.0
D036 Nitrobenzene	< 2.0
D037 Pentachlorophenol	< 100.0
D038 Pyridine	< 5.0
D039 Tetrachloroethylene	< 3.7
D040 Trichloroethylene	< 0.5
D041 2,4,5-Trichlorophenol	< 400.0
D042 2,4,6-Trichlorophenol	< 2.0
D043 Vinyl Chloride	< 0.2

E. RCRA CHARACTERIZATION

- Is this material a "Hazardous Waste" under 40CFR 261.37? N
- Is this a "Characteristic Waste"? N If "Yes" is it: D001 Ignitable D002 Corrosive D003 Reactive
D004-D043 Toxic, give specific codes
- Is this an "F" or "K" waste or mixed with one? If "Yes" give waste codes from 40CFR 261.31 and/or 261.32: _____
- Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (c) or (d)? N If "Yes" give codes _____
- Is this a state regulated waste? If "Yes" give code _____

DOT CHARACTERIZATION

- Is this a "Hazardous Substance/Marine Pollutant" as defined in 49CFR D.O.T? N
- If "Yes" give the proper D.O.T. Shipping Description from 49 CFR 172.101: _____

Non-Hazardous Waste Material
 UN/NA#: _____

3. Hazardous Class: _____ RQ: _____ 0.00 Packaging Group: _____

4. Give the two primary hazardous constituents: _____

FOR INTERNAL USE ONLY

Date Received: _____
 Date Approved: _____
 Treatment Method: _____

GENERATOR CERTIFICATION

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

NAME (PRINT) Luke Owens Title Project Manager (Colorado)
 SIGNATURE [Signature] Date 3-19-97

APPENDIX B
ODC NOTIFICATION REPORTING FORM

State of New Mexico
Energy and Minerals Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

Name of Operator				Address				
Report of	Fire	Break	Spill	Leak	Blowout	Other*		
Type of Facility	Drig Well	Prod Well	Tank Btty	Pipe Line	Gaso Pint	Oil Rfy	Other*	
Name of Facility								
Location of Facility (Quarter/Quarter Section or Footage Description)					Sec.	Twp.	Rge.	County
Distance and Direction From Nearest Town or Prominent Landmark								
Date and Hour of Occurrence				Date and Hour of Discovery				
Was Immediate Notice Given?	Yes	No	Not Required	If Yes, To Whom				
By Whom				Date and Hour				
Type of Fluid Lost				Quantity of Loss	_____ BO _____ BW	Volume Recovered	_____ BO _____ BW	
Did Any Fluids Reach a Watercourse?	Yes	No	Quantity					
If Yes, Describe Fully**								
Describe Cause of Problem and Remedial Action Taken**								
Describe Area Affected and Cleanup Action Taken**								
Description of Area	Farming	Grazing	Urban	Other*				
Surface Conditions	Sandy	Sandy Loam	Clay	Rocky	Wet	Dry	Snow	
Describe General Conditions Prevailing (Temperature, Precipitation, Etc.)**								
I Hereby Certify That the Information Above Is True and Complete to the Best of My Knowledge and Belief								
Signed		Title			Date			

*Specify

**Attach Additional Sheets if Necessary

APPENDIX C
WATER WELL REGISTRATION FORM

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

SAN JUAN UNDERGROUND WATER BASIN

BASIN NAME

Declaration No. SJ-1087 Date received November 13, 1979

STATEMENT

1. Name of Declarant Raymond W. Neidigh
Mailing Address P. O. Box 276 Farmington, New Mexico 87401
County of San Juan, State of New Mexico

2. Source of water supply shallow
(artesian or shallow water aquifer)

3. Describe well location under one of the following subheadings:
a. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 24 Twp. 29-N Rge. 13-W N.M.P.M., in
San Juan County.

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

c. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone
in the _____ Grant.
On land owned by _____

4. Description of well: date drilled unknown driller unknown depth 52 feet.

outside diameter of casing 8 inches; original capacity _____ gal. per min.; present capacity _____

gal. per min.; pumping lift _____ feet; static water level 32 feet (above) (below) land surface;

make and type of pump Berkley- turbine 1 1/4 discharge

make, type, horsepower, etc., of power plant electric

Fractional or percentage interest claimed in well 100 %

5. Quantity of water appropriated and beneficially used 3 9

for irrigation (acre feet per acre) (acre feet per annum) purposes.

6. Acreage actually irrigated 3 acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner
part <u>NW 1/4 NW 1/4 NW 1/4</u>	<u>24</u>	<u>29-N</u>	<u>13-W</u>	<u>3</u>	<u>Raymond W. Neidigh</u>
part <u>SW 1/4 NW 1/4 NW 1/4</u>	<u>24</u>	<u>29-N</u>	<u>13-W</u>		

beginning south 38 feet and east 396 feet and south 371 feet from the NW corner of said section 24, thence south 910 feet, thence west 165 feet, thence north 910 feet, thence east 165 feet to the point of beginning.

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use 1964 and since that time

has been used fully and continuously on all of the above described lands or for the above described purposes except

as follows: well has been used to supplement surface rights of the Echo ditch and has been on the property since purchase in 1964.

8. Additional statements or explanations

I, Raymond W. Neidigh being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read and all of the items contained therein and that the same are true to the best of my knowledge and belief.



Signature: Pollietta Williams Raymond W. Neidigh, declarant.

Notary Public - New Mexico by: _____

Notary Bond Filed with Secretary of State 6 day of November, A.D. 79

My Commission Expires: Sept 28, 1983 Notary Public

FILED UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM. ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

29 N-13 W sec 24, 111

**Wilson Environmental
Management, Inc.**

File Copy.
GW-281

Weatherford Enterra US, Limited Partnership

Discharge Plan
Weatherford Enterra Oil Field Rental Tools
850 S. Browning Parkway
Farmington, New Mexico

RECEIVED

MAR 31 1997

Environmental Bureau
Oil Conservation Division

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
Artesia, NM 87410
District IV - (505) 827-7131

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

Revised 12/1/96

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

RECEIVED
MAR 31 1997

Environmental Bureau
Oil Conservation Division
DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES
GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS
(Refer to the OCD Guidelines for assistance in completing the application)

New Renewal Modification

1. Type: Oilfield equipment rental and storage ; wireline services
2. Operator: Weatherford Enterra U.S. Limited Partnership
Address: 850 S. Browning Parkway, Farmington, New Mexico, 87401
Contact Person: Ms. Lesa Griffin Phone: (713) 693-4922
3. Location: SE 14 SW 14 Section 13 Township 29N Range 13W
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: LESA L. GRIFFIN Title: ENV. Manager
Signature: [Handwritten Signature] Date: 3-21-97

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APPENDICES

- A Waste Disposal Manifests and Analytical Results
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1. Introduction

Weatherford Enterra US, Limited Partnership, is preparing this Discharge Plan for their new facility located at 850 S. Browning Parkway in Farmington, New Mexico in compliance with the New Mexico Oil and Gas Act and the Water Quality Act. The New Mexico Oil Conservation Division (OCD) administers these regulations with approval of the New Mexico Water Quality Control Commission (WQCC). This Discharge Plan sets forth the details of the methods and techniques to be used at the facility to prevent unauthorized discharge of liquids and ensure compliance with WQCC and OCD regulations. WQCC Regulation 3106.B requires submittal and approval of a Discharge Plan prior to start of facility discharges. The following sections provide the Discharge Plan information required by the ODC for Oil Field Service Facilities.

The Weatherford Enterra facility covered by this Discharge Plan is a new facility being constructed to Weatherford Enterra's specifications. Weatherford Enterra has been operating at 5432 U.S. Highway 64 in Farmington, New Mexico for the last five years. The Highway 64 location has an approved Discharge Plan (GW-126) which expires August 19, 1997. Weatherford currently intends to continue to use the Highway 64 facility and will submit a Discharge Plan Renewal for the Highway 64 facility by April 19, 1997. If operations at the Highway 64 facility changes following the move to the new site at 850 Browning Parkway, a Discharge Plan Modification will be submitted to the NMED.

2. Facility Information

2.1. Type of Operation

The facility rents oil field tools and pipe used for the exploration and production of crude oil and natural gas. Rental equipment returned from the field is steamed cleaned to remove oil, grease and drilling mud, repaired if necessary and repainted prior to being returned to the rental inventory. The equipment will remain in inventory until the next rental.

The facility does not perform any on-site waste disposal. All wastes produced by the facility are transported off-site by licensed transporters and recycled or disposed by permitted operators.

2.2. Facility Operator

The operator of the facility is:

Weatherford Enterra U.S., Limited Partnership
515 Post Oak Boulevard, Suite 600
Houston, Texas 77027
(713) 693-4000

The Farmington location facility manager is:

Mr. Jack Dunson
850 Browning Parkway
P.O. Box 2344
Farmington, New Mexico 87401
(505) 327-1046.

2.3. Facility Location

The facility is located at 850 S. Browning Parkway, Farmington, New Mexico. The site location is SE/4, SW/4, Section 13, Township 29 N, Range 13 W in San Juan County. A USGS topographic map showing the approximate location of the facility is provided as Figure 2-1. However, the USGS map has not been revised since 1979 and Browning Parkway was not constructed at the time. Figure 2-2 is an updated street map of Farmington illustrating the approximate location of the facility.

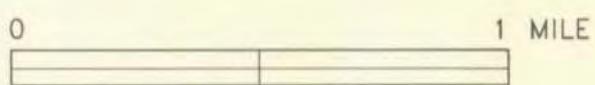
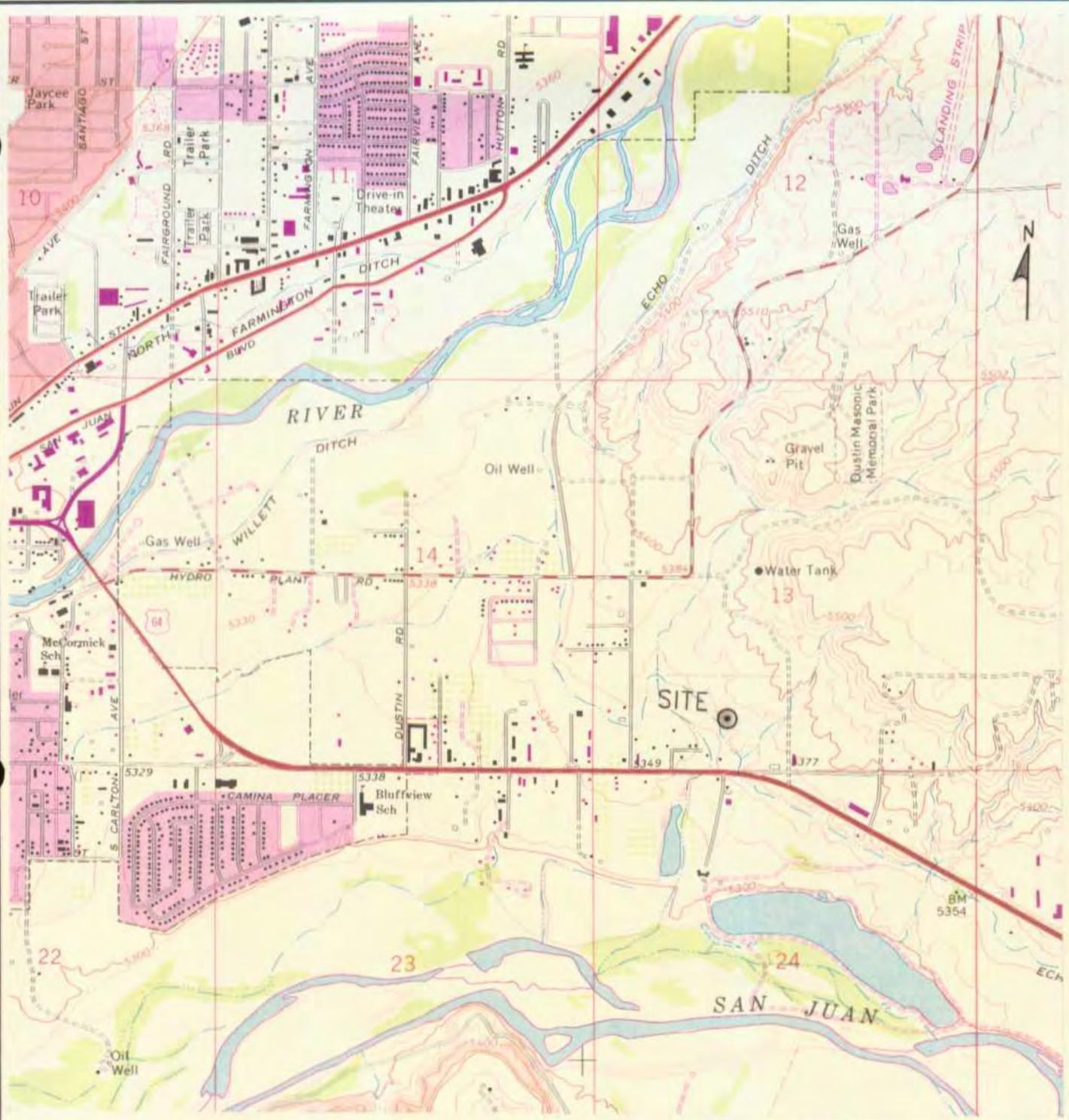
2.4. Landowner

The site owner is:

Mr. Chuck Hagen
Hagen-Dimmick Development, Ltd
205 N. Auburn
Farmington, NM
(505) 325-8863

2.5. Facility Description

The facility is located within the City of Farmington. Water and sewer service is supplied by the city. A site plot plan of the facility indicating the locations of the facility structures is provided as Figure 2-3. Figure 2-4 is a site topographic map indicating site elevations and property line survey co-ordinates.



SCALE 1:24000

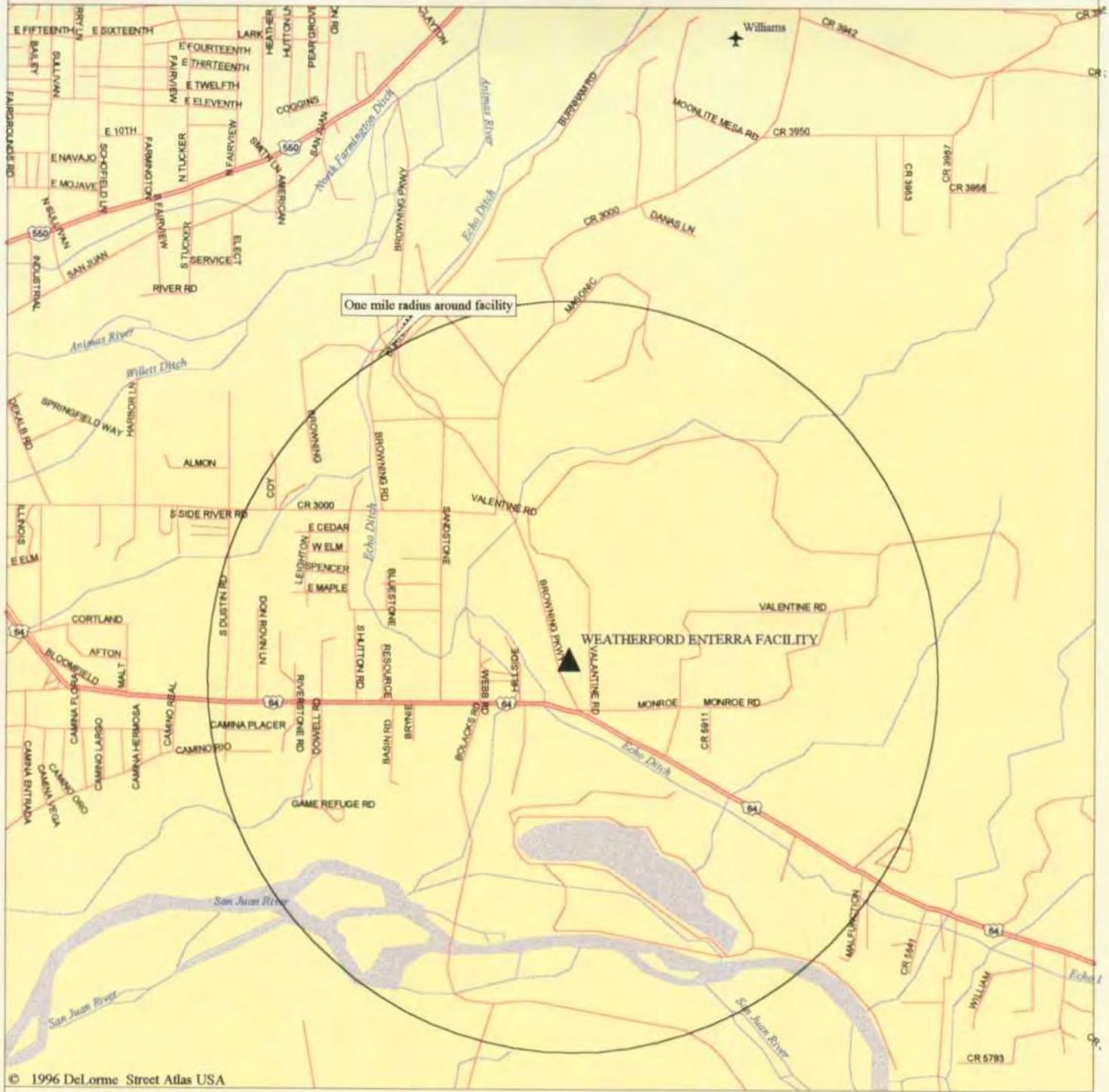
REF: U.S.G.S FARMINGTON SOUTH, NEW MEXICO. 1965, r.1979

WILSON ENVIRONMENTAL
MANAGEMENT, INC.

FIGURE 2-1
SITE LOCATION MAP
WEATHERFORD ENTERRA
850 S. BROWNING PARKWAY
FARMINGTON, NEW MEXICO

DRAWN BY:	SH	DATE:	3-8-97	PROJECT NUMBER:	WEM 41003-99-1
CHECK'D BY:		REVISED:			

Figure 2-2

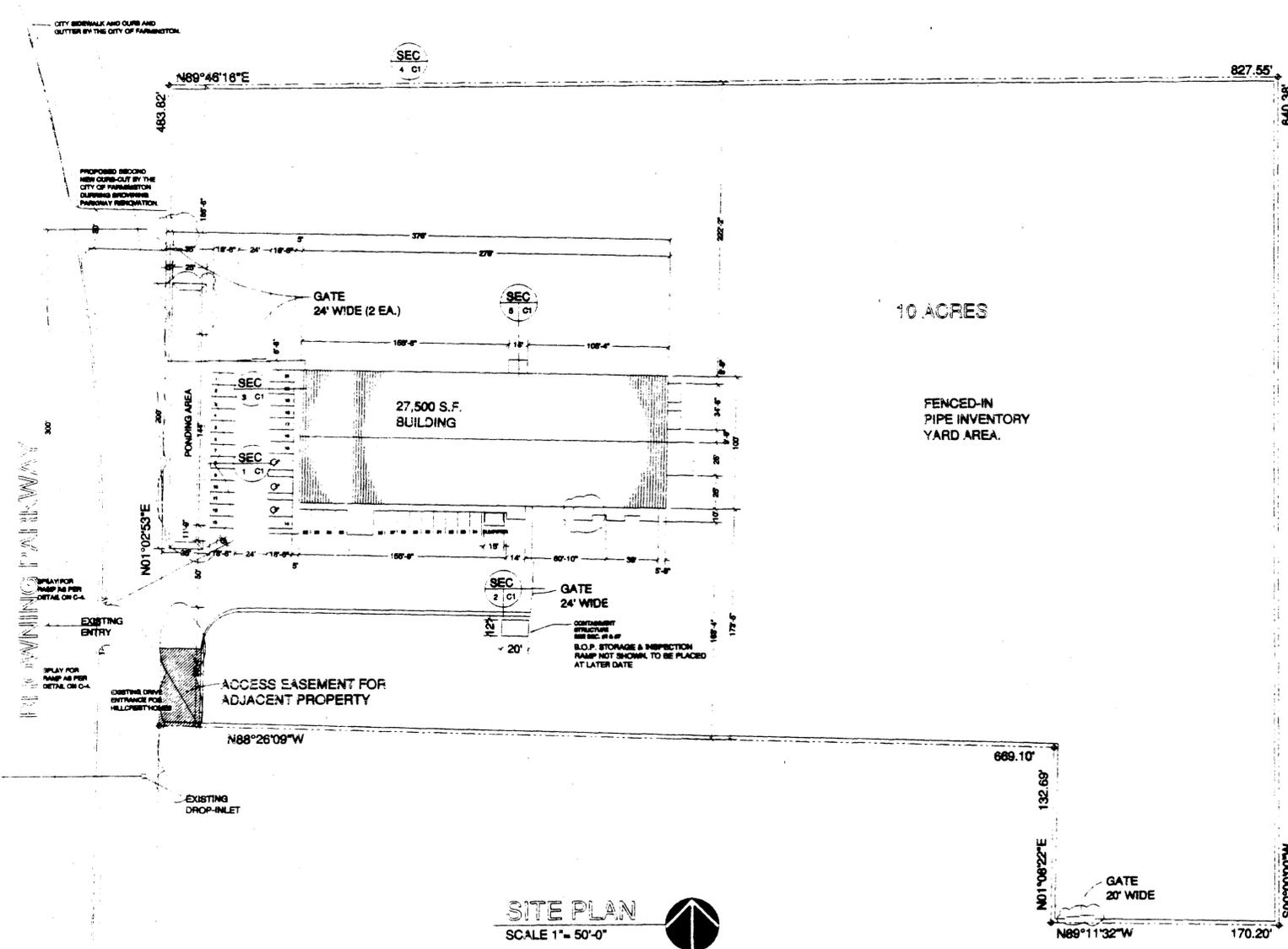


© 1996 DeLorme Street Atlas USA

Mag 14.00
 Thu Mar 20 07:54 1997
 Scale 1:25,000 (at center)
 2000 Feet
 500 Meters

-  Local Road
-  US Highway
-  Private Airport
-  Land
-  Water
-  River/Canal
-  Intermittent River

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PARKING REQUIREMENTS

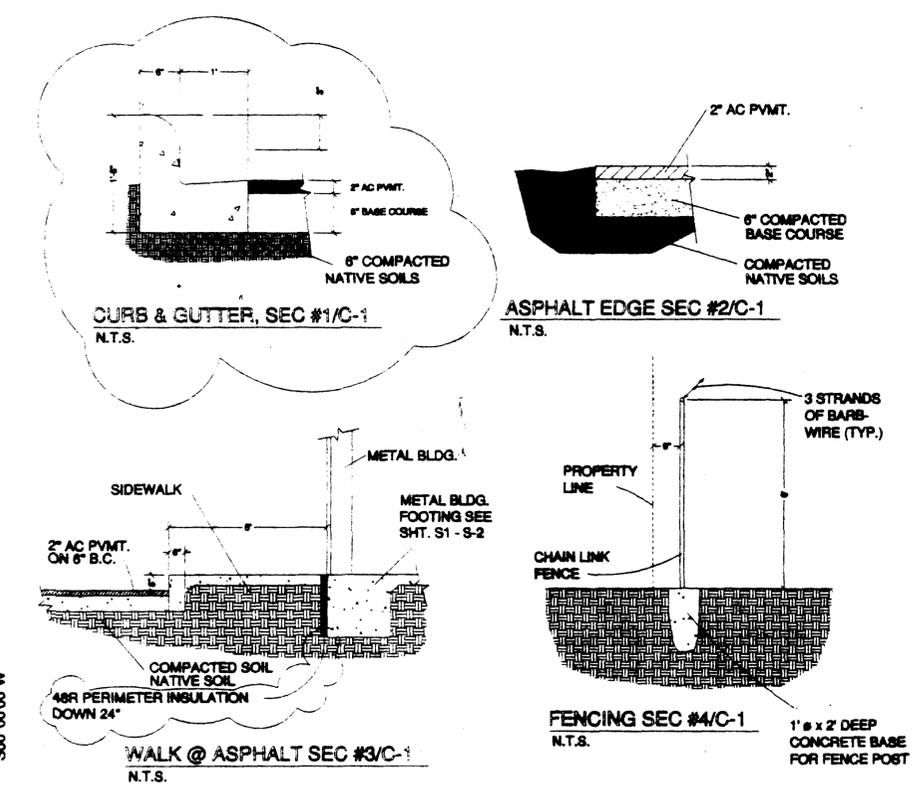
REFERENCE: CITY OF FARMINGTON NEW MEXICO ZONING ORDINANCE REVISED 7/94
ARTICLE XVII, SECTION 2, (D) INDUSTRIAL USES:

MANUFACTURING, OR FABRICATING, CLEANING, SERVICING, OR REPAIR ESTABLISHMENTS.	1 SPACE PER 1,000 SQUARE FEET OF FLOOR AREA OR 1 SPACE PER 1 1/2 EMPLOYEES ON THE MAXIMUM SHIFT, WHICHEVER IS GREATER.
-------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------

TOTAL AREA - 26,000 S.F. / 1,000 - 27.5 OR 28 SPACES

SECTION 6, (A) PARKING FOR THE PHYSICALLY HANDICAPPED
(A) WHEREVER FIFTEEN (15) OR MORE PARKING SPACES ARE REQUIRED FOR NONRESIDENTIAL USES, OR TWENTY-FIVE (25) OR MORE PARKING SPACES ARE REQUIRED FOR RESIDENTIAL USES, THE FOLLOWING FORMULA SHALL BE USED TO DETERMINE THE NUMBER OF SPACES THAT MUST BE RESERVED FOR USE BY THE PHYSICALLY HANDICAPPED:

TOTAL SPACES IN PARKING LOT	MINIMUM DESIGNATED DISABLED PARKING SPACES
34	3



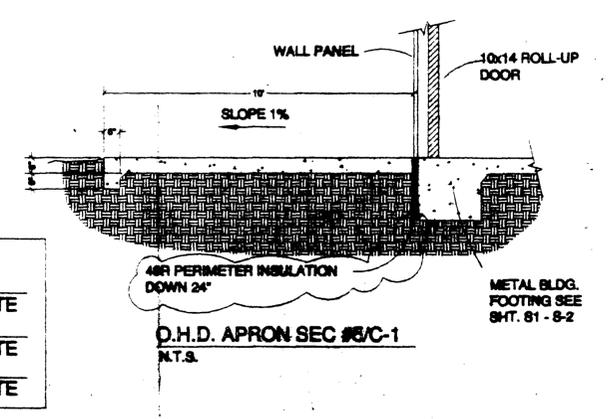
TYPICAL POND SECTION
N.T.S.

PONDING DATA:

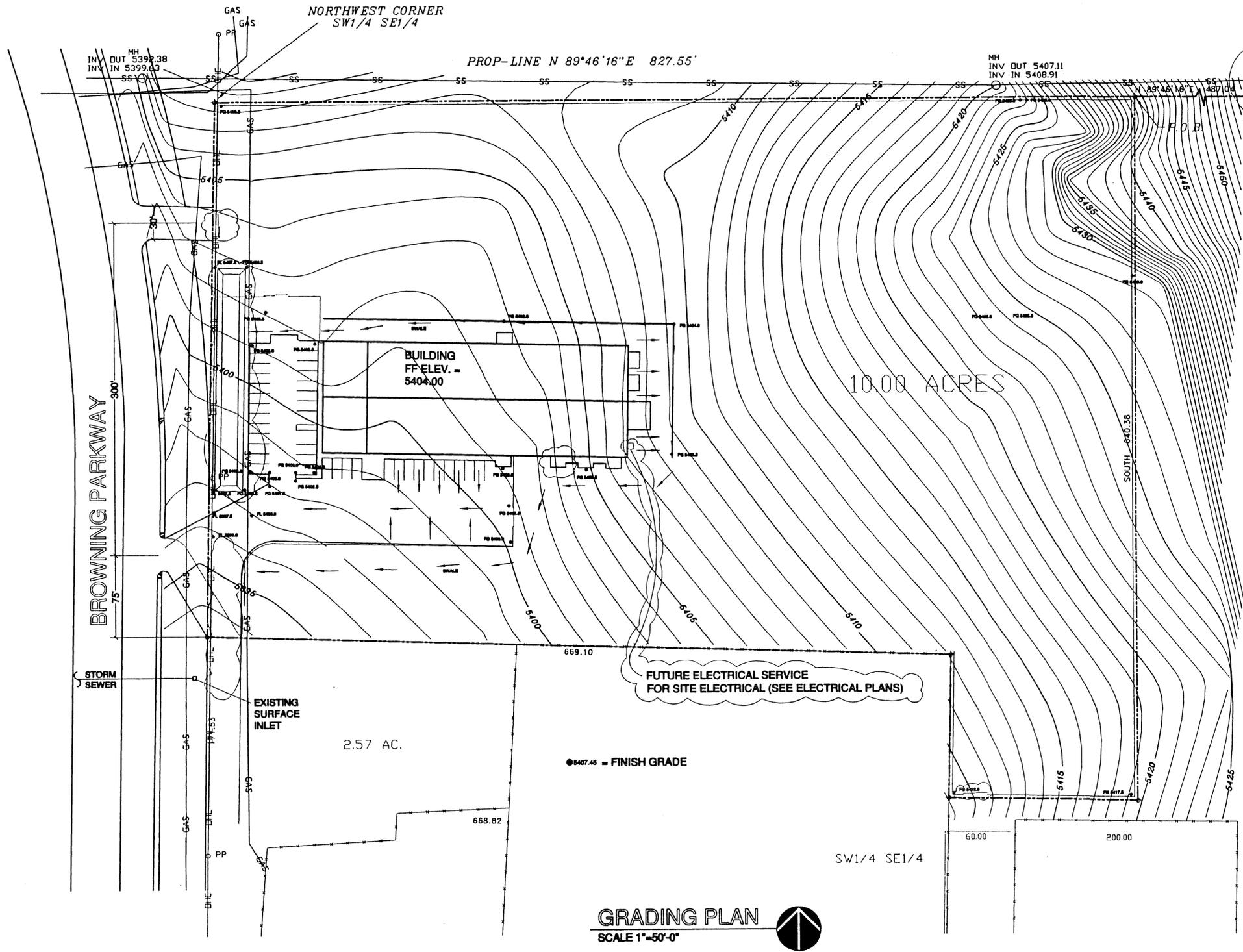
UNDEVELOPED CONDITIONS	
SITE AREA	10.0 ACRES = 436,000 S.F.
SOIL TYPE	FINE SAND-SILT
HYDROLOGIC GROUP	B
CURVE NUMBER	70
LENGTH OF CHANNEL	670 FT.
ELEVATION CHANGE	46 FT.
TIME OF CONCENTRATION	0.10 HR (MINIMUM)
100 YEAR STORM	2.8 INCHES
DIRECT RUNOFF	0.8 INCHES
RUNOFF VOLUME	28,040 CF
DISCHARGE RATE	2.3 CFS/ACRE/INCH
DEVELOPED CONDITIONS	
INTERVENSIVE AREAS:	
BUILDING	27,500 SF
PARKING & DRIVEWAYS	31,265 SF
CONCRETE & SIDEWALKS	2,800 SF
TOTAL AREA	61,565 SF
CURVE NUMBER	85
DIRECT RUNOFF	2.1 INCHES
RUNOFF VOLUME	10,885 CF
PERVIOUS AREA	373,575 SF
DIRECT RUNOFF	0.8 INCHES
RUNOFF VOLUME	24,955 CF
TOTAL RUNOFF (UNDEVELOPED)	28,040 CF
TOTAL RUNOFF (DEVELOPED)	35,780 CF
PONDING REQUIRED	6,730 CF
PONDING DATA:	
TOP AREA	26'x88' = 5,000 SF
BASE AREA	18'x18' = 2,700 SF
DEPTH	= 2 FT.
CAPACITY	= 7,700 CF > 6,730 CF

APPROVALS

HAGEN DIMMICK DEVELOPMENT, LTD.	DATE
WEATHERFORD ENTERRA	DATE
GARLAND & LOMAN, INC.	DATE



WEATHERFORD ENTERRA 850 S. BROWNING PARKWAY FARMINGTON, NM



NORTHEAST CORNER SW1/4 SE1/4 SECTION 13 T29N R13W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

NOTE:
 ALL GRADING ELEVATIONS TO BE DETERMINED AT SITE.
 IN STORAGE AREAS, ROAD BASE MATERIAL TO BE PALCED IN TRAVEL AREAS ONLY

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 Oil Conservation Division



APPROVALS	
<i>[Signature]</i> HAGEN DIMMICK DEVELOPMENT, LTD.	10/31/96 DATE
WEATHERFORD ENTERRA	DATE
GARLAND & LOMAN, INC.	DATE

BOLLSCHWEILER ENGINEERING

- FIRST NATIONAL BANK TOWER
- LAS CRUCES, NEW MEXICO
- SUITE 420
- 1-(505)-523-4058

GARLAND • LOMAN
 GENERAL CONTRACTORS • DEVELOPERS
 (505) 525-9340 FAX (505) 526-3393
 645 EL MOLINO BLVD. • LAS CRUCES, NM 88005
 NEW MEXICO LICENSE #24022

FILE: 9612C-2H.DWG, 0.DWG, 1"-50'-0"
 SHEET: C-2h

REV: H
 DATE: 10/25/96



FIGURE 2-4

3. Materials Used at the Facility

Table 3-1 provides a list of materials currently used by the Highway 64 facility, the quantity stored and the anticipated storage location at the new facility. MSDS sheets for all chemical products are kept at the site. The facility does not use or store any drilling fluids, brines, acids or caustics.

TABLE 3-1
PRODUCTS USED/STORED AT FACILITY

Product Type/ Brand Name	Solid/Liquid	Type of Container	Number of Containers Stored	Storage Location	How Disposed
PAINT					
Krylon - red	aerosol	12 oz can	29	shop - flammable cabinet	empties put into municipal trash
Krylon - high temp aluminum	aerosol	12 oz can	6	shop - flammable cabinet	empties put into municipal trash
Krylon - brown	aerosol	12 oz can	3	shop - flammable cabinet	empties put into municipal trash
Krylon - yellow	aerosol	12 oz can	2	shop - flammable cabinet	empties put into municipal trash
Krylon - royal blue	aerosol	12 oz can	24	shop - flammable cabinet	empties put into municipal trash
Krylon - flat white	aerosol	12 oz can	18	shop - flammable cabinet	empties put into municipal trash
Krylon - bright copper	aerosol	12 oz can	12	shop - flammable cabinet	empties put into municipal trash
Diamond - black	aerosol	12 oz can	1	shop - flammable cabinet	empties put into municipal trash
Wellborn - silver aluminum	liquid	1 gallon can	7	shop - flammable cabinet	empties put into municipal trash
Various oil based enamels	liquid	1 quart can	11	shop - flammable cabinet	empties put into municipal trash
Industrial Coatings Specialties	liquid	1 gallon can	11	shop - flammable cabinet	empties put into municipal trash
Daimond - Vogel Enamel	liquid	5 gallon can	1	shop - flammable cabinet	empties put into municipal trash
Jones Blair Hi-Temp Enamel	liquid	1 gallon can	1	shop - flammable cabinet	empties put into municipal trash
PAINT THINNER					
Crown Xylol (xylene)	liquid	1 gallon can	1	shop - paint room	waste collected by Safety Klean
Crown Xylol (xylene)	liquid	5 gallon can	4	shop - paint room	waste collected by Safety Klean
Industrial Coatings thinner #25	liquid	5 gallon can	4	shop - paint room	waste collected by Safety Klean
SOLVENTS/DEGREASERS					
Safety Klean - parts cleaner	liquid	16 gallon drum	6	shop	returned to Safety Klean for recycling
mineral spirits	liquid	5 gallon drum	1	shop	waste collected by Safety Klean
FUELS					
Gasoline	liquid	5 gallon can	4	shop	none disposed
MISCELLANEOUS					
anti-freeze	liquid	55 gallon drum	1	shop	empties returned to vendor

TABLE 3-1
 PRODUCTS USED/STORED AT FACILITY

Brand Name	Solid/Liquid	Type of Container	Number of Containers Stored	Storage Location	How Disposed
LUBRICANTS/OILS					
ZEP - dry moly spray	aerosol	14 oz can	24	shop - flammible cabinet	empties put into municipal trash
Conoco - transmission fluid	liquid	5 gallon	3	shop - paint room	empties put into municipal trash
Exxon - transmission fluid	liquid	5 gallon	1	shop - paint room	empties put into municipal trash
Liquid-O-Ring	liquid	5 gallon	3	shop - paint room	empties put into municipal trash
76 Lubricants - UNAX AW 32	liquid	5 gallon	1	shop - paint room	empties put into municipal trash
76 Lubricants - Dexron	liquid	1 quart plastic	12	shop - paint room	empties put into municipal trash
Chevron - supreme motor oil	liquid	1 quart plastic	48	shop - paint room	empties put into municipal trash
Chevron - Delo motor oil	liquid	1 gallon plastic	18	shop - paint room	empties put into municipal trash
Wagner - brake fluid	liquid	1 gallon plastic	1	shop - paint room	empties put into municipal trash
L-X gas supplement	liquid	1 gallon plastic	1	shop - paint room	empties put into municipal trash
Mystik - multi purpose grease	solid	14 oz tube	13	shop - paint room	empties put into municipal trash
LE - multi purpose grease	solid	14 oz tube	50	shop - paint room	empties put into municipal trash
LE - multi purpose oil	liquid	16 gallon drum	3	shop	empties returned to vendor
Chevron - RRM motor oil	liquid	55 gallon drum	1	shop	empties returned to vendor
Chevron - Hydraulic oil	liquid	55 gallon drum	2	shop	empties returned to vendor
Chevron - Ultra duty grease	solid	5 gallon bucket	2	shop	empties put into municipal trash
Zee - general purpose grease	solid	5 gallon bucket	1	shop	empties put into municipal trash
Chevron - Delo motor oil	liquid	5 gallon bucket	1	shop	empties put into municipal trash
ZePreserve - penetrant	liquid	1 gallon can	1	shop - flammible cabinet	empties put into municipal trash
Lawson - protecting agent	aerosol	11.5 oz can	3	shop - flammible cabinet	empties put into municipal trash
MD-113 Moly Film lube	aerosol	12 oz can	12	shop - flammible cabinet	empties put into municipal trash
PN-105 - penetrant	aerosol	12 oz can	2	shop - flammible cabinet	empties put into municipal trash
Dyna System - anti-sieze	aerosol	15 oz can	1	shop - flammible cabinet	empties put into municipal trash
Pyrol - power steering fluid	liquid	1 quart plastic	4	shop - flammible cabinet	empties put into municipal trash

4. Sources/Quantities of Effluent and Waste Solids Generated

A description of the waste generating processes and the quantity of waste generated is provided below.

WASTE TYPE	COMPOSITION OR SOURCE	VOLUME PER MONTH	MAJOR ADDITIVES
Truck Wastes	None	NA	NA
Truck/Tank Washing	None	NA	NA
Steam Cleaning of Equipment	Hydrocarbons (from cleaning of parts and equipment)	55 gallons	None
Solvents	Safety Kleen (parts cleaner from inspection/repair activities)	10 gallons	NA
Spent Acids and Caustics	None	NA	NA
Waste Slop Oil	Oil collected by water treatment system	6 gallon	NA
Waste Lubrication and Motor Oils	Hydraulic equipment/motors	6 gallons	NA
Water Treatment Carbon Filter	Water Recycle unit	estimated 2 filters (400 lbs) per year	
Oil Filters	None	NA	NA
Solids/Sludges from Sump	Sand, grit, water and hydrocarbons in sump	100 gallons	NA
Paint Wastes	Spent thinner	0.5 gallons	none
Other Waste Solids	Empty aerosol and lubricant containers	10 containers	NA

5. Description of Waste Collection/Storage/Disposal Procedures

5.1. Steam Cleaning of Parts/Equipment

Equipment returned from the field is steam cleaned prior to any refurbishing or painting. Steam cleaning will be performed at the east end of the shop. A floor drain collection system has been constructed to collect the wastewater. No soaps or detergents are used in the steam cleaning process. Water is supplied to the facility by the City of Farmington through underground lines.

Water collected by the floor drain system drains to a sediment trap to remove solids. The water then gravity flows to a below grade, three stage oil/water separator to remove any floating hydrocarbons before being transferred to a Landa CLP-7023A water treatment unit for polishing. The treated water from the Landa unit is then recycled back to the steam cleaner for reuse.

Oily sediment collected by the sediment trap are removed and transported by truck to a permitted off-site facility for disposal. Oil collected by the separator and Landa unit is removed, placed in drums and transported off-site by truck for recycling. The estimated quantity of sediment produced is 100 gallons per month. The estimated quantity of oil produced per month is 6 gallon per month.

Water used during the steam cleaning process is recycled to minimize water usage. Occasionally, the water has to be replaced due to increases in the Total Dissolved Solids (TDS) concentration of the water. When this occurs, the water in the Landa unit will be tested to determine chemical concentrations. If the water meets the pre-treatment requirements for the City of Farmington, the water will be discharged to the City sewer via a below grade line. If the water does not meet the City's pre-treatment requirements, the water will be drummed and transported off-site by truck for disposal. The estimated quantity of wash water to be produced per month is 500 gallons. Manifests for the last shipment of sump sludge, oil and Safety Kleen solvent are provided at Appendix A. In addition, the hazardous waste characterization samples analytical results for sump sludge shipped off-site during February 1997 is also included in Appendix A. No BETX analysis is performed on this material since the analysis is not required for waste characterization and disposal.

The water treatment system also contains a sand filter, polyester cartridge filter and an activated carbon filter. These filters will occasionally require replacement. The sand and polyester cartridge filters will be drummed with the sump sludges and disposed as appropriate. The activated carbon filter will be collected by the vendor of the replacement carbon for regeneration.

The entire wash water collection and treatment system including floor drains, sump, oil/water separator and treatment unit is underlain with a 40-mil, welded seam, HDPE liner with a leak detection and leachate collection system.

5.2. Solvent Use

Safety Kleen parts cleaner is used to clean pipe threads and to remove grease and oil from parts during equipment repair. The safety Kleen solvent is a petroleum naphtha based solvent that is classified as hazardous waste. Safety Kleen solvent is supplied in 16-gallon drums that connect to capture trays and a recycle system to minimize the quantity of solvent use. When the current drum of solvent has reached its loading capacity of oil/grease, the drum is removed from the capture tray, sealed and placed in the containment storage area. A new drum of solvent is then attached to the capture tray. In addition to parts cleaner, any waste paint thinner (Xylene) is also collected by Safety Kleen.

The facility currently uses approximately 35 gallons of parts cleaner per month with approximately 20 gallons per month being returned to Safety Kleen for recycling. Safety Kleen collects the used solvent approximately every 90 days and transports the material by truck to the Safety Kleen recycling center located at 1722 Cooper Creek Road in Denton, Texas.

5.3. Waste Slop Oil, Waste Lubrication and Motor Oils

Waste oil produced during the steam cleaning of equipment will be captured in the wastewater oil/water separator and wash water recycle system. This oil will be collected and placed into drums for storage prior to trucking off-site for recycling. In addition, waste oil is produced during the repair of certain oil field equipment such as Blow Out Preventers. This oil is captured during disassembly of the equipment and placed into drums. The drums of oil are stored in container storage area prior to shipment of the oil to a permitted recycler. The oil is currently collected by D & D Oil of Bloomfield, New Mexico for recycling. The facility currently produces approximately 150 gallons of waste oil per year.

5.4. Solids/Sludges from Sumps

Solids and sludges are produced during the steam cleaning of equipment and will be captured in the sediment trap (sump) within the shop. The sump wastes consist of a mixture of sand, grit and drilling mud that has been impacted with hydrocarbons. The sump material is pumped from the sump and into drums which will be stored in the container storage area until the material has been tested. Following testing, the drums are collected by truck and shipped to the disposal center. The facility drums are currently transported by Van Waters and Rogers of Denver, Colorado and transported to the Pollution Control Industries facility in East Chicago, Indiana. Approximately 100 gallons of mixed sump

sludge, water and oil are produced every month. Analytical testing of this material indicates that it is a non-hazardous waste.

In addition to the sump waste, any used anti-freeze/water mixture from the facility forklifts is also placed into the drums for collection by Van Waters and Rodgers and disposal at the Pollution Control Industries facility. Facility personnel estimate that 20 gallons of used anti-freeze is produced annually.

5.5. Other Solid Wastes

Empty aerosol cans, lubricant and oil containers and miscellaneous materials are placed in an on-site dumpster for collection by truck. The materials in the dumpster are collected by the Waste Management of Four Corners and transported to the San Juan County Landfill for disposal. Waste Management of Four Corners annually verifies the composition of the waste stream. Empty oil drums are reclaimed by the vendors who sold the products to Weatherford Enterra.

6. Collection and Storage Systems

A description of the waste collection and storage systems for each of the waste streams described in the previous section is provided below.

6.1. Wastewater Collection/Treatment System

The wastewater collection and treatment system is located within the shop at the eastern end of the shop. The collection system was designed to collect the wastewater generated during the steam cleaning of returned equipment. The concrete floor of the shop is sloped so that all liquids drain to a floor drain. The floor drain measures 1-foot wide by 1-foot deep and is constructed out of 6-inch thick, steel reinforced concrete. The floor drain measures approximately 41 feet in length. At the eastern end of the floor drain is a 5 feet long section of 4-inch diameter, SCHD 40 PVC pipe that gravity drains water from the floor drain to a 1,250 gallon, concrete sediment trap (sump). Water collected in the sump, then gravity flows approximately 24 feet through a 4-inch diameter SCHD 40 PVC pipe to the below grade oil/water separator.

The separator consists of a 12 feet long by 4 feet diameter fiberglass tank with 3 interior chambers. The bottom of the tank is approximately 6 feet below grade. Water from the final chamber in the oil/water separator is pumped to a Watermaze CLP-7023A self-contained wash water recycling system which is located above grade and adjacent to the oil/water separator. Oil collected in the oil/water separator is pumped out and placed into drums for off-site shipment and recycling.

The CLP unit consists of a multi-media sand filter, polyester cartridge filter and activated carbon filter to remove suspended solids, organics and low levels of metals from the wash water. In addition, the CLP unit also has a separate oil skimmer to collect any oil that passes through the oil/water separator, a pH controller to maintain the water's pH and an ozone injector to control odors. Water from the CLP unit is then recycled back to the steam cleaner. Treated water with excessive TDS concentrations can be discharge to the city sewer service via an underground line or discharged to drums for off-site disposal depending upon the chemical concentrations present in the water.

The entire wastewater collection and treatment system is underlain with a 40-mil HDPE, welded seam liner system. A leachate detection/collection system consisting of a 4-inch diameter PVC well is located adjacent to the east end of the oil/water separator. Photographs showing installation of the HDPE liner are provided as Appendix B.

Figures 6-1 through 6-3 provide construction drawings of the facility indicating the locations, dimensions and construction specifications for the wastewater

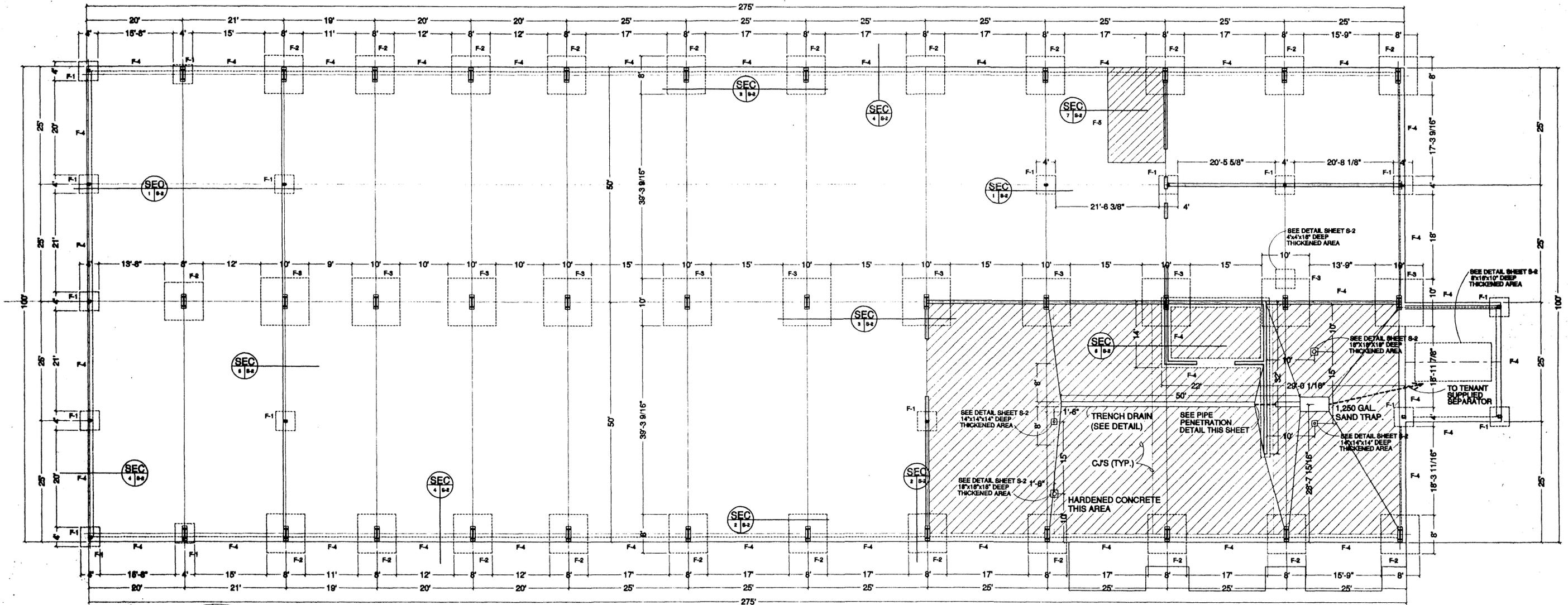
collection system. A Landa brochure describing the CLP unit is provided in Appendix C.

6.2. Container Storage Area

A container storage area will be located on the south side of the building and used for the temporary storage of waste containing drums. The container storage area will consist of a 20 feet long by 12 feet wide concrete pad with 2-foot high concrete walls. The floor and interior walls of the containment area will be epoxy lined to minimize seepage into the concrete. The concrete pad is sloped to a sump in the corner where a manually operated 2-inch diameter, SCHD 40 PVC drain valve is located. The valve will be used to remove any rainwater collected in the storage area as well as any releases from the containers. Unimpacted rainwater collected in the storage area will be released to the ground. Impacted rainwater will be drummed, tested and disposed as appropriate. Any waste spilled within the containment area will be collected, tested and disposed as appropriate.

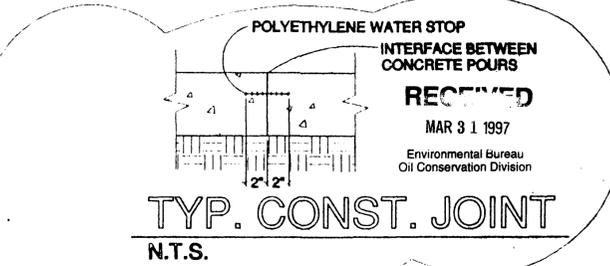
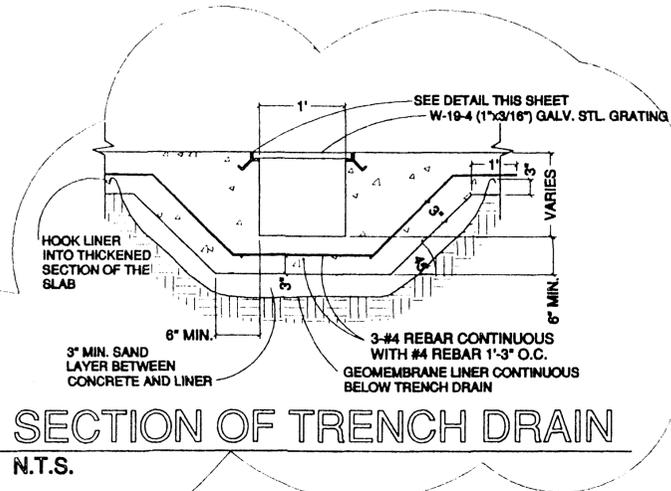
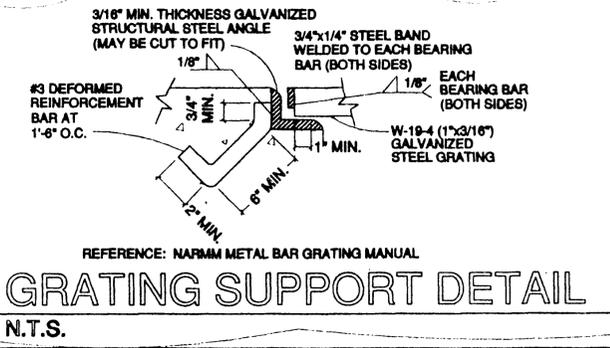
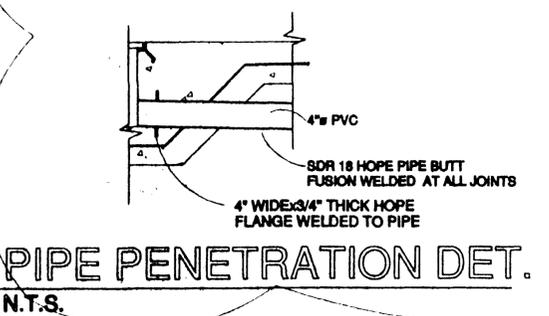
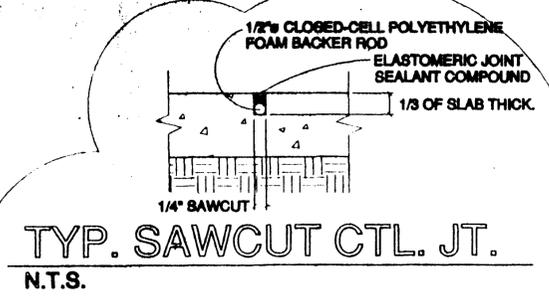
6.3. Underground Piping

The facility will not have any underground process lines. Underground wastewater lines consists of a 5-foot section of 4-inch diameter PVC pipe between the floor drain and the sediment trap and a 24-foot section of 4-inch diameter PVC pipe between the sediment trap and the oil/water separator. No hydrostatic testing of the piping is proposed due to its length and material of construction. The two sections of underground lines are also secondarily contained with a 40-mil HDPE liner and monitored with a leachate detection/collection system.



FOUNDATION PLAN
SCALE 1"=10'-0"

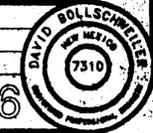
FOOTING	TYPE	SIZE	DEPTH	TOP REBARS	BOTTOM REBARS	STIRRUPS
F1	SQUARE	4'0" x 4'0"	18"	#5 @ 8" OCBW	#5 @ 8" OCBW	N/A
F2	SQUARE	8'0" x 8'0"	18"	#5 @ 10" OCBW	#5 @ 10" OCBW	N/A
F3	SQUARE	10'0" x 10'0"	18"	#5 @ 8" OCBW	#5 @ 8" OCBW	N/A
F4	CONTINUOUS	12" W	36"	#4 @ 4" OC	#4 @ 4" OC	#3 @ 48"
F5	RECTANGLE	12' x 20'	2'-0"	#5 @ 12" OCBW	#5 @ 12" OCBW	#5 @ 24"

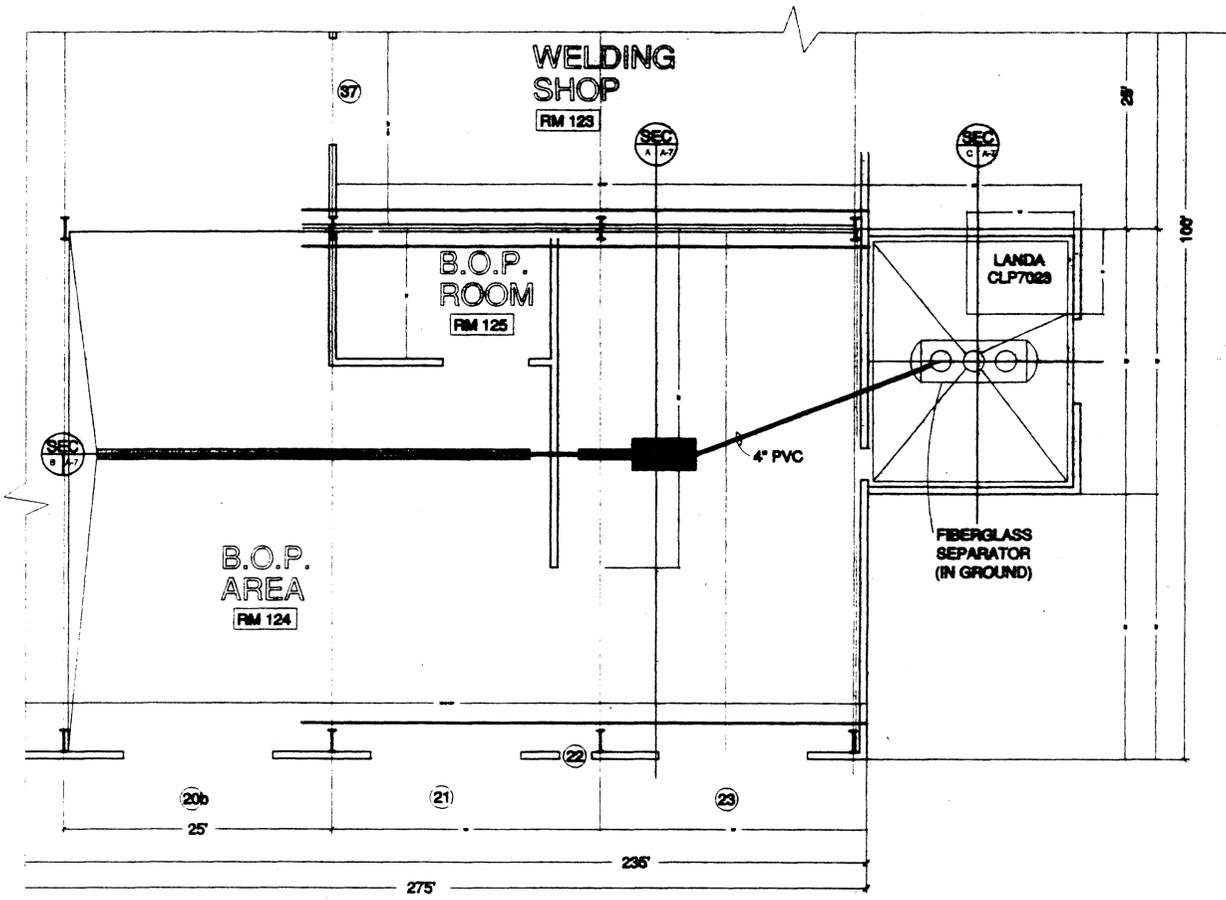


NOTE:
HARDENED CONCRETE FOR THE ENTIRE B.O.P. ROOM

APPROVALS

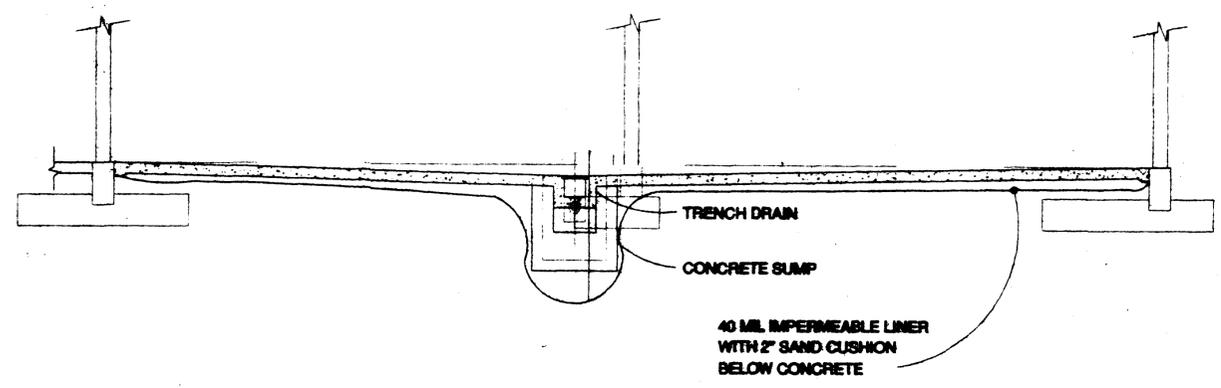
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WEATHERFORD ENTERRA	DATE
GARLAND & LOMAN, INC.	DATE





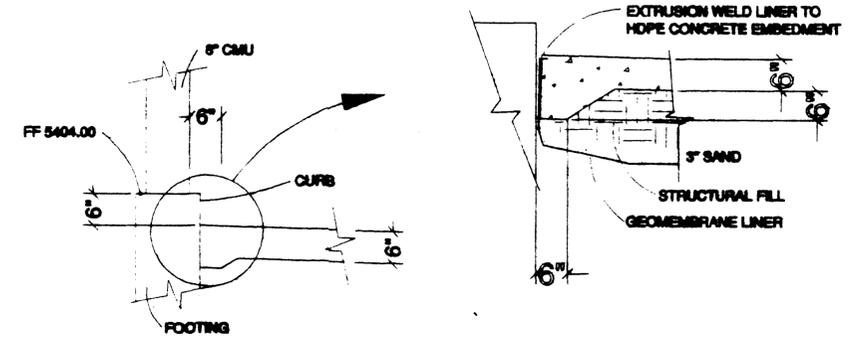
FLOOR PLAN

SCALE 1/8"=1'-0"



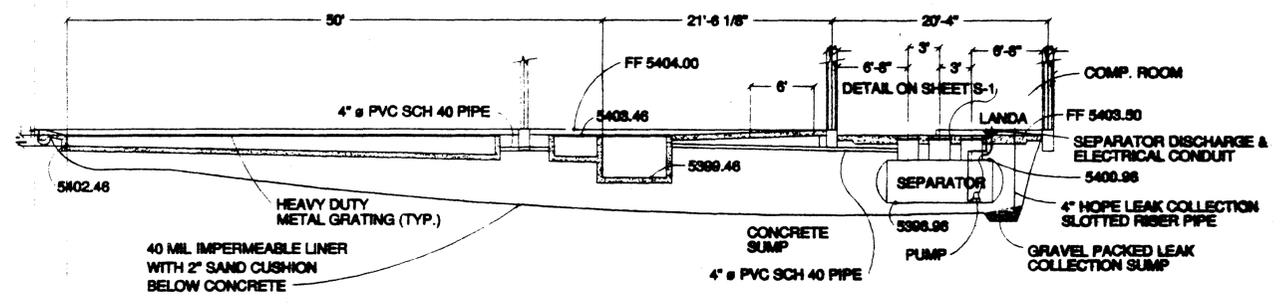
SECTION AA-7

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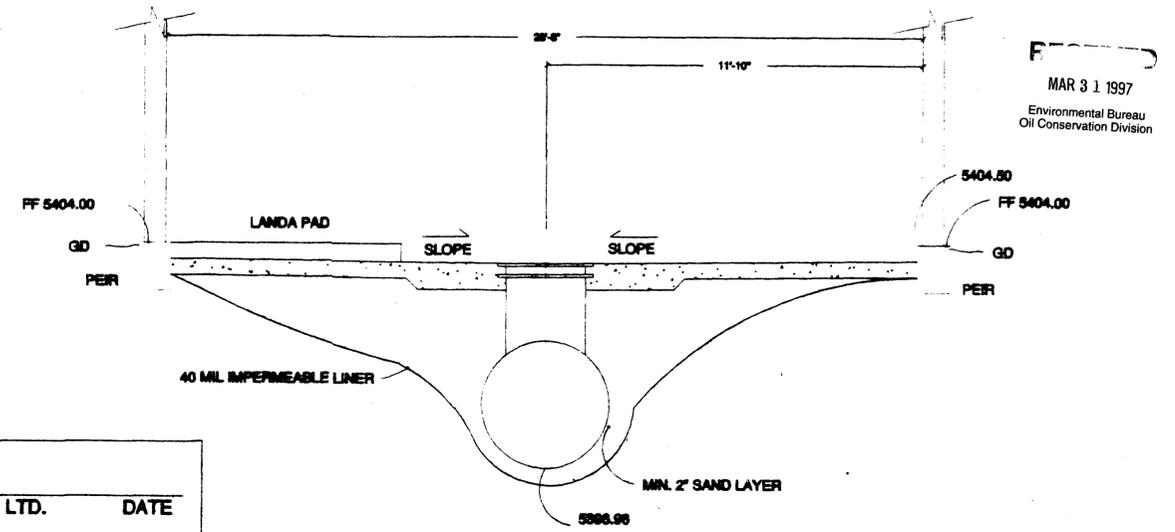
CURB DETAIL

SCALE 3/4"=1'-0"



SECTION B/A-7

SCALE 1/8"=1'-0"



SECTION C DETAIL

SCALE 3/4"=1'-0"

SCALE AS SHOWN

APPROVALS	
HAGEN DIMMICK DEVELOPMENT, LTD.	DATE
WEATHERFORD ENTERRA	DATE
GARLAND & LOMAN, INC.	DATE

MAR 3 1 1997
Environmental Bureau
Oil Conservation Division

PROJECT
WEATHERFORD ENTERRA
850 S. BROWNING PARKWAY
FARMINGTON, NEW MEXICO

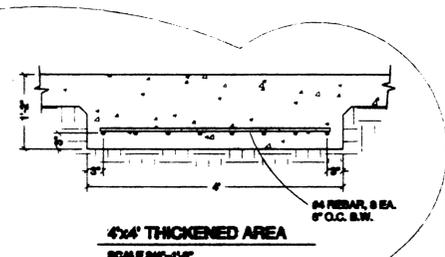
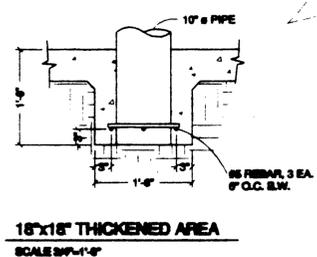
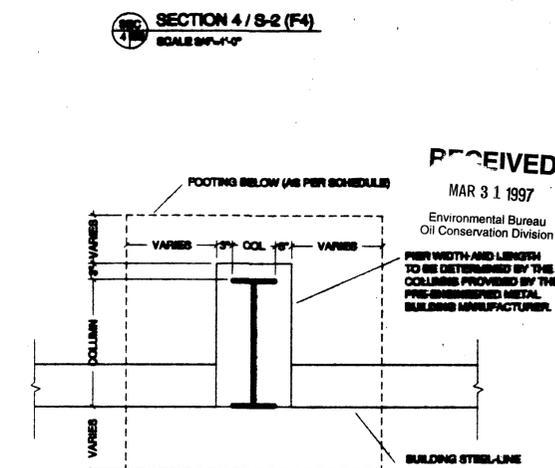
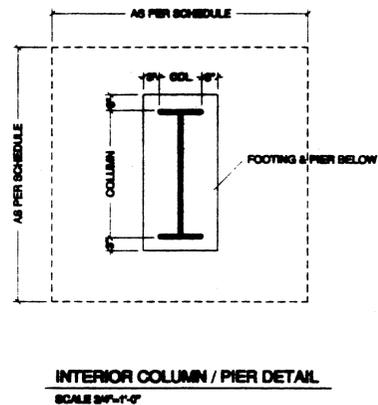
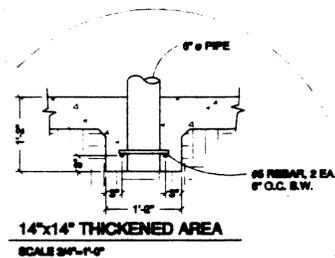
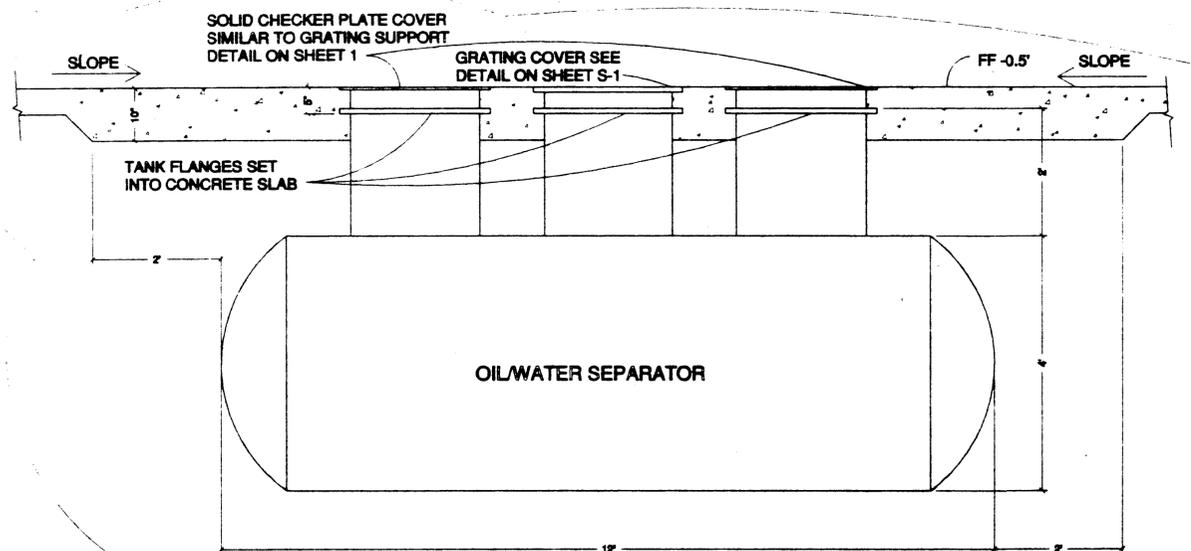
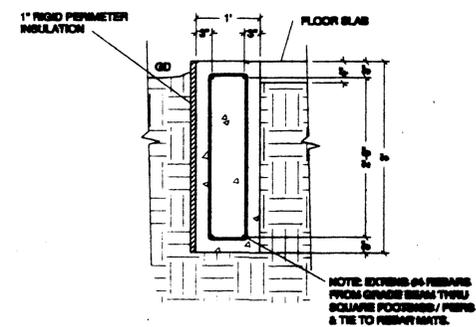
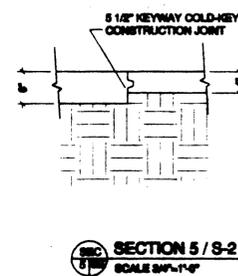
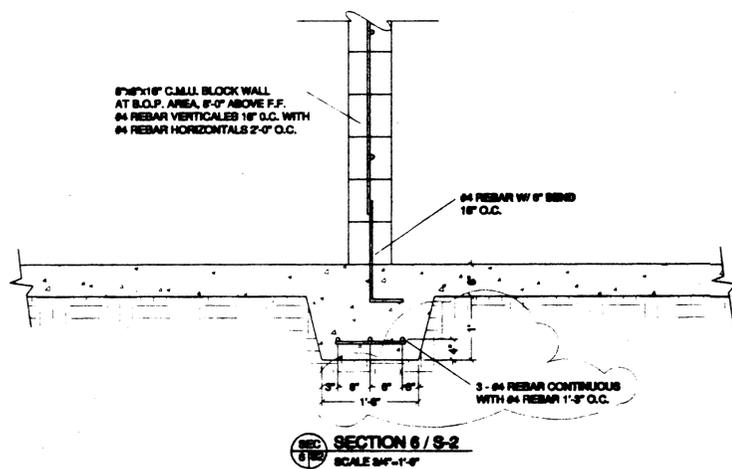
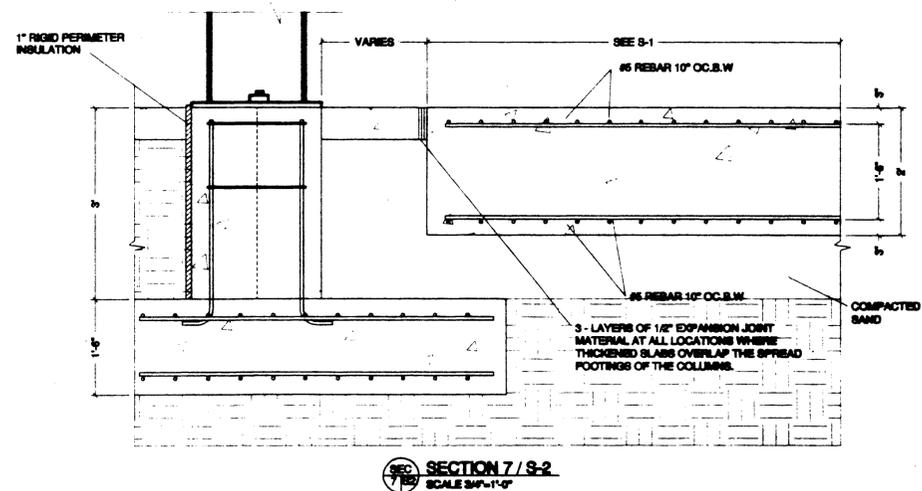
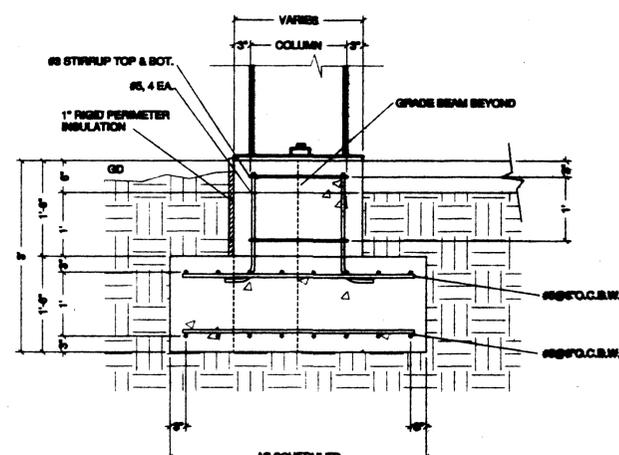
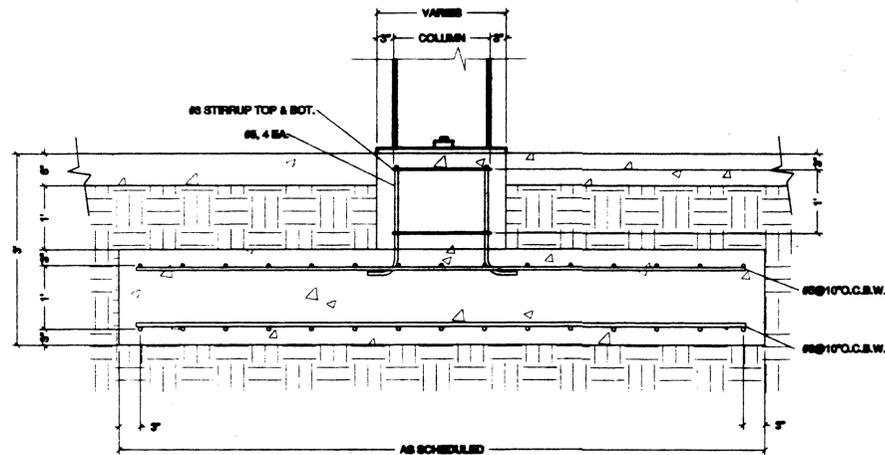
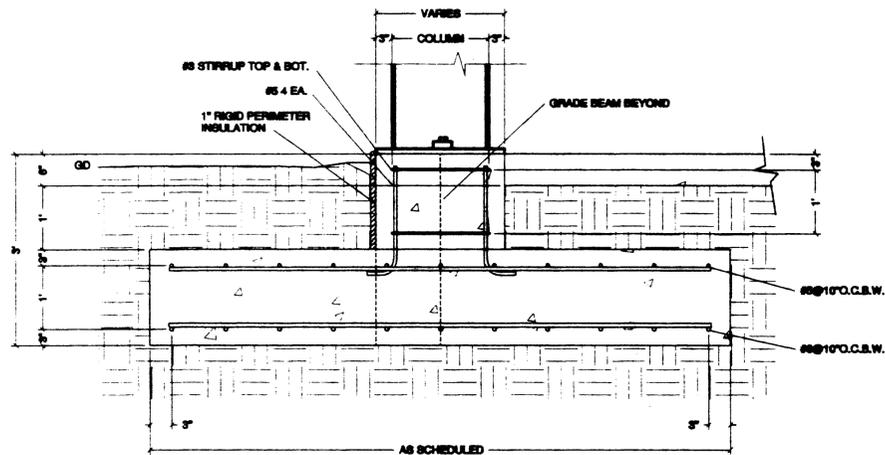
GARLAND & LOMAN
GENERAL CONTRACTORS & DEVELOPERS
(505) 882-8840 FAX (505) 882-8888
649 E. MCJUNKIN BLVD. LAS CRUCES, NM 87801
NEW MEXICO LICENSE #8888

REVISIONS	
TCS 10/25/88	ORIGINAL
TCS 12/9/88	

FIGURE 6-2
SHEET REV. 1

A-7

ENVIRONMENTAL DETAILS



APPROVALS	
HAGEN DIMMICK DEVELOPMENT, LTD.	DATE
WEATHERFORD ENTERRA	DATE
GARLAND & LOMAN, INC.	DATE

RECEIVED
MAR 31 1997
Environmental Bureau
Oil Conservation Division



7. Existing Effluent and Solids Disposal

7.1. On-site Disposal

No on-site disposal of wastes will be performed at the facility. All wastes to be generated at the facility will be disposed at permitted off-site disposal facilities or recycled as appropriate. The facility does not have any surface impoundments, drying pits, leachfields, disposal pits or injection wells.

7.2. Off-site Disposal

All waste currently produced at the facility is disposed off-site. A description of each waste type and the off-site disposal method is described below.

7.2.1. Solvents

Waste solvents are collected in drums and collected by Safety Kleen. The drums are transported by truck to Safety Kleen's recycling facility located at 1722 Cooper Creek Road in Denton, Texas. Approximately 70 gallons of spent solvent is collected by Safety Kleen every 3 months.

7.2.2. Waste Oils

Waste oils removed from equipment or produced from the wash water oil/water separators are collected and placed into drums. The drums are then collected and shipped by truck to D & D Oil of Bloomfield, New Mexico for recycling. Approximately 150 gallons of waste oil is produced annually.

7.2.3. Sump Solids

Sediment collected in the wash water sediment trap is placed into drums. The drums are then collected by Van Waters and Rodgers, who truck the wastes to the Pollution Control Industries facility in East Chicago, Indiana for disposal. Approximately 100 gallons of mixed sump sludges, water and oil are produced each month.

7.2.4. Miscellaneous Solid Wastes

Miscellaneous solid waste such as empty aerosol cans and clean containers are placed in the on-site dumpster. The dumpster is collected by Waste Management of Four corners and trucked to the San Juan County Landfill for disposal. Waste Management annually verifies the composition of the materials placed in the dumpster.

8. Inspection, Maintenance and Reporting

The facility does not have any waste disposal units that require inspection, monitoring or reporting. Inspection, maintenance and leak detection will be performed monthly on the wash water recycle unit. In addition, the Landa water treatment unit will be inspected every day as part of the facility's operational practices. The container storage area will be inspected following any significant rainfall event to determine the amount of water within the containment area. The water treatment unit and container storage area are both located in areas where they can be observed on a daily basis by facility employees. The procedures to be used for the inspection of these units is described in the following section.

8.1. Containment of Precipitation and Runoff

Steam cleaning, repair and painting of equipment is performed inside the shop. Precipitation or stormwater runoff does not come into contact with these process area.

The container storage area will consist of a concrete pad and 2 foot high walls to prevent runoff from entering the storage area and to contain any precipitation that accumulates with the storage area. The storage area can be drained through a manually operated valve located at one end of the storage area. Unimpacted precipitation collected in the container storage area will be discharged to the ground. Precipitation having a oily sheen or otherwise impacted will be pumped into drums, tested and disposed as appropriate.

9. Spill/Leak Prevention and Reporting Procedures

9.1. Inspections

A description of the inspection procedures and inspection schedule for the waste storage generating and storage areas are described below. In addition to scheduled inspections, most areas of the facility is observed on a day to day basis by the employees.

9.1.1. Wash Water Collection System

The below grade structures of the wastewater collection and treatment system are secondarily contained with a HDPE liner. The structures contained within the liner include the floor drain, sediment trap (sump) and the below grade oil/water separator. Adjacent to the east end of the oil/water separator is a leak detection system consisting of a slotted 4-inch diameter PVC pipe. The leak detection system will be checked on a monthly basis to determine if any liquids are present within the secondary containment system. Results of the inspection will be recorded in an inspection log kept at the facility.

If the monthly inspection indicates that liquids are present within the secondary containment system. The source of the release will be determined and promptly repaired. All liquids will be removed from the secondary containment via the leak detection well and additional evaluations of the release will be performed on an as-needed basis to determine if impacts to the soils or groundwater has occurred.

9.1.2. Container Storage Area

The container storage area will be inspected following any rainfall event of 0.25 inches or greater. The storage area will also be inspected on a monthly basis to determine if precipitation has accumulated within the storage area or if a release has occurred. If a release has occurred within the storage area, the material will be pumped into drums and the storage area decontaminated to prevent future contamination of precipitation that falls within the storage area.

9.1.3. Water Treatment System

The Landa water treatment system will be inspected daily as part of facility operations to ensure proper operation of the system. The floor of the water treatment room is slope such that any releases from the water treatment system will drain into the below grade oil/water separator. Any excess release will be pumped into drums for disposal.

9.2. Containment and Cleanup

Weatherford Enterra's corporate policy is to comply with all applicable environmental laws and regulations. In addition, Weatherford Enterra try to build, maintain and upgrade facilities in order to minimize impacts to the environment. Weatherford Enterra personnel are present at the site during most of the daylight hours and personnel receive training in spill containment and cleanup to minimize impacts to the environment. Releases of materials require reporting to Weatherford Enterra's Corporate Environmental Department and to applicable government agencies.

Leaks, spills and drips will be handled as follows:

- Small spills on pavement will be absorbed with sorbent pads or granular oil absorbent material. The pads/oil sorb will be placed into drums for off-site disposal by an approved disposal contractor.
- Small spills on soil will be shoveled into drums for off-site disposal by an approved disposal contractor.
- Large spills will be contained with temporary berms. Free liquids will be pumped into drums. Contaminated soils will be placed into drums or other leak-proof container and disposed as applicable. Additional characterization and removal of impacted soils will be performed on as needed basis.

The facility maintains spill kits which contain sorbent pads, granular sorbent, small booms and drums to temporarily store impacted material. The largest liquid containers maintained at the site are 55 gallon drums. All drums will be stored either in the shop or inside the container storage area.

9.3. Reporting of Emergency Incidents

In the event of a release of materials from the site of oil or other water contaminant in such quantities as may be detrimental to human health, animal or plant life or unreasonably interfere with the public welfare or use of property, notification will be given to the ODC. Notification will be given if more than five (5) barrels of material is released per NMOCD Rule 116. Notification will also be given if any contaminant reaches a watercourse or enters a stream or river.

Notification will be given orally to the OCD District Office as soon as possible, but no later than 24 hours, after the discharge. Notification will consists of the following information:

- The name, address and telephone number of the facility and the name and phone number of the person in charge of the facility;
- The date, time and duration of the discharge;

- The source and cause of the discharge;
- A description of the discharge including chemical composition;
- The estimated volume of the discharge, and
- The actions taken to mitigate immediate damage from the discharge.

Within ten days of the discharge, the operator will also submit, in duplicate, the above information in writing to OCD District Office.

The OCD District Office is located at the following address and phone number.

1000 Rio Brazos Road
Aztec, NM 87410
Phone: (505) 334-6178
Fax: (505) 334-6170

An OCD Notification of Fire, Breaks, Spills, Leaks and Blowouts form illustrating the requested notification information is provided as Appendix D. This form will be completed by the Facility Manager or his designee for all reportable releases. A copy of the form will be transmitted to the OCD District Office, Weatherford Enterra Corporate Environmental in Houston, Texas and a copy will be retained at the facility.

10. Site Characteristics

10.1. Nearby Water Bodies/Watercourses

Water bodies and watercourses within one mile of the facility are shown on Figure 2-2. The water bodies within one mile of the facility are the San Juan River and an unnamed, private irrigation lake. Several intermittent drainage pathways are also located around the facility with Echo Ditch being located west and south of the facility and unnamed drainages being located north, west and east of the facility. The unnamed drainages all enter Echo Ditch prior to discharging to the San Juan River.

10.2. Water Wells

A search was performed to determine if any water wells are located within 0.25 mile of the facility perimeter. The search indicated no wells within 0.25 miles of the facility perimeter. The closest identified well is located approximately 0.4 miles southwest of the facility ((NW1/4 of NW1/4 of Section 24, T29, R12). This well is listed as an irrigation well and has a completion depth of 52 feet. The location of this well is shown on Figure 10-1.

10.3. Groundwater

No wells are present on-site to provide groundwater data. Personal interviews were held with engineers from Basin Engineering in Farmington, New Mexico. Basin Engineering performed the soil properties testing prior to design and construction of the facility. Interviews were also held with water well drillers from Shorty Thompson Well Drilling Service in Farmington, New Mexico. The interviews indicated that groundwater is present beneath the facility at a depth of approximately 40 to 45 feet below grade. No TDS information for the groundwater was available, however, the groundwater is of sufficient quality to be used for domestic purposes and human consumption and is assumed to contain less than 10,000 mg/l TDS.

Available information indicates that groundwater flow is generally to the south toward the San Juan River. The Nacimiento Formation is the aquifer in the vicinity of the Weatherford Enterra facility.

10.4. Stratigraphy

Based upon soil materials testing conducted prior to design of the building, the facility is located upon alluvium sands. The facility soils consist of fine to medium grained sands with minor amounts of silt and clay. The alluvium is underlain by the Nacimiento Formation at a depth of approximately 15 feet. The

Nacimiento Formation is comprised of sandstones and mudstone. The sandstones are medium to very coarse-grained, immature to submature arkoses.

10.5. Flooding Potential

The facility is located on a bench and is not within the flood plain of the San Juan River which is the closest major waterway. Several intermittent streams (arroyos) are located west and east of the facility, however, these arroyos are located at an elevation at least 10 feet lower than the facility. The facility does not appear to be located within a federally designated 100 or 500-year flood plain. As such, special flood protection measures are not required.

Figure 10-1



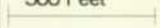
© 1996 DeLorme Street Atlas USA

Mag 16.00

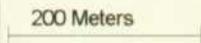
Fri Mar 21 08:16 1997

Scale 1:7,812 (at center)

500 Feet



200 Meters



- Local Road
- US Highway
- Water
- Intermittent River

11. Other Compliance Information

The facility does not perform any on-site disposal or have any waste disposal units. All products and wastes are contained to prevent accidental discharge to the environment and all wastes are transported off-site for recycling or disposal. In the event of a release, Weatherford Enterra US, Limited Partnership will comply with the requirements of NMOCD Rule 116 and WQCC Section 1203 spill reporting.

APPENDIX A

WASTE DISPOSAL MANIFESTS AND ANALYTICAL RESULTS

S 1000 North Randall Road
Elgin, Illinois 60123-7857



DUNS NO. 05106-0408 FED. ID NO. 39-6090019

FOR SERVICE CALL TRANSPORTER
505 884-2277 MIKE WEIRICH

DDC EXP
03/01/97

SCHEDULED SERVICE WEEK	SCHEDULED SERVICE MONTH	REFERENCE NUMBER		
97-01		243770		
CREDIT CODE	PREV. BALANCE	BAL OVER 60 DAYS		
C				
BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
07	1503	YES	106	001
TAX EXEMPTION NUMBER				

GENERATOR
7-008-01-4092-6
WEATHERFORD US INC
5432 HWY 64
FARMINGTON NM 87401

B
I
L
L

7-008-01-0815
WEATHERFORD US INC
PO BOX 2344
FARMINGTON NM 87499

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
12/31/90	5820		505-327-6341	J2-120-2482			.05503	.05503	.05503

DEPT	SERVICE/PRODUCT	SERIAL NUMBER	REMARKS	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WM DISCOUNT	SOLVENT			CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS/INITIAL)	CHANGE SQ. DATE (BY WM)	INV. CODE	PROMO NO.	RELEASE NO.
									CLEAN	SPENT	# OF CONT.							
1	0051150	00026636	/GRAYMILLS	1	58.00	3.20	61.80	0.00		7	1	975	12					
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

TOTAL-SERVICE/PRODUCTS					58.00	3.20	61.80	0.00										
------------------------	--	--	--	--	-------	------	-------	------	--	--	--	--	--	--	--	--	--	--

MANIFEST NO.	USEPA TRANSPORTER ID NO.	GENERATOR USEPA ID NO.	GENERATOR STATE ID NO.
XXXXX	ILD984908202		

CHECK APPROPRIATE BOXES →

GOOD POOR

MACHINE CONDITION & CLEANLINESS

LAMP ASSEMBLY CONDITION

DECALS IN PLACE AND LEGIBLE

FUSIBLE LINK INSTALLED

EMERGENCY CLOSING OF LID UNOBSTRUCTED

YES NO

MACHINE PROPERLY GROUNDED

LOCAL PHONE NO. STICKER AFFIXED TO MACHINE

SPENT SOLVENT MEETS ACCEPTANCE CRITERIA

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)	12. CONTAINERS NO.	13. TOTAL QUANTITY	14. UNIT WTA/VOL	SK DOT NUMBER	5133033	I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.
WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA) (ERG 128) 6.78/GAL	1	7	G	975		0 TO 200 LBS./MONTH INITIALS <u> </u>
A. NA1993 PGIII (D039, D009, D018, D040)						220 LBS. TO 2,200 LBS./MONTH INITIALS <u> </u>
B.						GREATER THAN 2,200 LBS./MONTH INITIALS <u> </u>
C.						
D.						

DESIGNATED FACILITY NAME AND ADDRESS SAFETY-KLEEN CORP.
4210A HAWKINS RD FARMINGTON, NM 87401

USA EPA ID NO. NM09E0098849
STATE ID NO.

PAYMENT RECEIVED SECTION	CASH <input type="checkbox"/>	TOTAL RECEIVED	APPLY PAYMENT TO:	
	CHECK NUMBER		<input type="checkbox"/> TODAY'S SERVICE/SALE	<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
PREVIOUS CREDIT CARD NO.	INVOICE #	AMOUNT \$	INVOICE #	AMOUNT \$
	CREDIT CARD NO.		AMEX VISA MC	EXP. DATE

LDR MESSAGE

LDR NOT REQ'D

MANIFEST CODE DP SEQ # 126

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.

This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

B Weatherford
Print Customer Name

By: Steve S...
Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WM DISCOUNT (FROM ABOVE)	
TOTAL DUE	61.84
USA	243740
USA	243740

CUSTOMER REFERENCE



D & D

Oil

USED OIL RECYCLING MANIFEST / RECEIPT

4194

DATE 1-13-97 SERVICE CALL # _____

GENERATOR

Generator Name Weatherford Enterprise (Well Head)

Phone 327-6341 Contact _____

Pickup Address 5435 US Hwy 64

City Hammonton State NM Zip 87401

Mailing Address 5435 US Hwy 64

City Hammonton State NM Zip 87401

U.S. DOT DESCRIPTION	GROSS GALLONS	PRICE/GAL	TOTAL
OIL NOS Combustible Liquid NA 1270			
<u>USED OIL</u>	<u>150</u>	<u>0</u>	<u>35.00</u>
			<u>2.10</u>

FORM OF PAYMENT

CASH: _____

CHECK: _____

NO: _____

CHARGE: _____

P.O. #: _____

CHARGE TERMS: NET 10 DAYS

TAX TOTAL DUE D&D OIL \$ 37.10

Special handling instructions _____

TESTED FOR HALOGENS BY: _____

GENERATORS CERTIFICATION:

This used oil is described to the best of my ability and it was delivered to a licensed Used Oil Recycler. There are no Listed Hazardous Materials in this product.

Printed / Typed Name _____ Signature _____ Date _____

TRANSPORTER, STORER AND TREATOR OF USED OIL

REMIT TO: EPA # NMD 986682102

D & D Oil

P.O. Box 670

Bloomfield, NM 87413

(505) 632-9130

**IN CASE OF SPILL CONTACT:
D & D Oil
1-505-632-9130**

TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Printed / Typed Name Steve Brown Signature Steve Brown Date 1-13-97

TREATMENT FACILITY OPERATOR

The described used oil was handled by me, the treatment facility named above, and was accepted.

Printed / Typed Name Steve Brown Signature Steve Brown Date 1-13-97

% B.S. & W.	TOTAL GALLONS DEDUCTED	NET GALLONS	AMOUNT DUE GENERATOR
			\$ _____

NON-HAZARDOUS WASTE MANIFEST

ORDER # 87250

Print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
N M 0 9 8 6 6 8 2 1 1 0

Manifest Document No. 0 2 1 1 7

2. Page 1 of 2

3. Generator's Name and Mailing Address
WEATHERFORD-INTERNATIONAL
FACILITY #35001
5432 HIGHWAY 64
FARMINGTON, NM 87401

4. Generator's Phone (505 327-6341

5. Transporter 1 Company Name
VAN WATERS & ROGERS INC.

6. US EPA ID Number
N M D 0 7 6 4 6 7 3 6 4

A. State Transporter's ID
B. Transporter 1 Phone 505-842-6303

7. Transporter 2 Company Name
VAN WATERS & ROGERS

8. US EPA ID Number
C O D 0 7 5 7 7 0 5 6 0

C. State Transporter's ID
D. Transporter 2 Phone 303-388-5651

9. Designated Facility Name and Site Address
POLLUTION CONTROL INDUSTRIES
4343 KENNEDY AVENUE
EAST CHICAGO, IN 46312

10. US EPA ID Number
I N D 0 0 0 6 4 6 9 4 3

E. State Facility's ID
F. Facility's Phone 219-397-3951

11. WASTE DESCRIPTION

Containers		13. Total Quantity	14. Unit Wt./Vol.
No.	Type		
a.	NON-HAZARDOUS (SUMP SLUDGE)		
b.			
c.			
d.			

a. NON-HAZARDOUS (SUMP SLUDGE)

D M

F. Additional Descriptions for Materials Listed Above
11a. 970200890 SUMP SLUDGE

G. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PROTECTIVE GEAR WHEN HANDLING.
EMERGENCY CONTACT: CHEMTREC: 1-800-424-9300. CALLER MUST IDENTIFY VAN WATERS & ROGERS AS SHIPPER.

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date
		Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials	Date
Printed/Typed Name	Signature
	Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials	Date
Printed/Typed Name	Signature
	Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Date

RCRA NON-HAZARDOUS WASTE GENERATOR FACILITY

PCI MATERIAL DATA SURVEY

A. Generator Name: Enterra Oil Field Rental **Billing Name:** VAN WATERS & ROGERS INC.
Address: 2855 Southside River Road **Address:** 4306 Holly Street
Farmington, NM 87401 **Address:** Denver, CO 80216

Technical Contact: Luke Owens **Phone:** (801) 583-3667 **Fax:** (801) 583-4660
Federal EPA ID No: CESQG **State ID No.:** _____ **S.I.C. Code:** 3533
PCI Sales Rep.: Rob Brown **Broker Contact:** Bernice Gaunt **VWR Sales Rep.:** Bernice Gaunt

Common Name of Waste: Sump Sludge/Solid
Original Process Generating Waste (must be specific): Sump Clean Out
Method of Shipments: 55 gallon Metal Drums, Barrels, Kegs **Quantity:** 5, Quarterly

B. PHYSICAL PROPERTIES @ 25C (77F)
Color: Black Dirt **% Total Halogens:** _____ **Specific Gravity:** _____
Odor: Mild **BW/lb:** N/A **pH:** N/A **Flashpoint:** N/A
Physical State: Solid

C. CHEMICAL COMPOSITION
 (In Hazardous and Non-Hazardous components and corresponding range)

Component:	%
Sand	65.00 - 90.00
Dirt	75.00 - 99.00
Water	0.00 - 1.00
Oil	0.00 - 1.00
Antifreeze	0.00 - 1.00

OTHER COMPONENTS

	Y/N	TOTAL (PPM)
Cyanides	N	
Sulfides	N	
Reactive Cyanides	N	
Reactive Sulfides	N	
Amines	N	
PCB's	N	
Phenolics	N	

HAZARDOUS PROPERTIES

X None
 Water Reactive
 Shock Sensitive
 Radioactive
 Corrosive
 Dioxins
 Benzene Neshap
 Air Reactive
 Pyrophoric
 Pesticide, Insecticide
 Etiological
 Explosive
 Polymerizable
 Pathogen
 Biological

Other: _____

D. Based on knowledge or analysis, provide an actual value or value for TCLP concentrations or total metal concentrations in ppm.

INORGANIC CHARACTERISTICS

D004 Arsenic	< 5.0
D005 Barium	< 100.0
D006 Cadmium	< 1.0
D007 Chromium	< 5.0
D008 Lead	< 5.0
D009 Mercury	< 0.2
D010 Selenium	< 1.0
D011 Silver	< 5.0
Copper	
Zinc	

ORGANIC CHARACTERISTICS

D012 Endrin	< 0.02
D013 Lindane	< 0.4
D014 Methylenechloride	< 10.0
D015 Toluene	< 0.5
D016 2,4-Dichlorophenoxyacetic acid	< 10.0
D017 2,4,5-TP (Silvex)	< 1.9
D018 Benzene	< 0.5
D019 Carbon Tetrachloride	< 0.5
D020 Chloroform	< 0.03
D021 Chlorobenzene	< 100.0
D022 Chloroform	< 6.0
D023 o-Cresol	< 200.0
D024 m-Cresol	< 200.0
D025 p-Cresol	< 200.0
D026 Cresol	< 200.0
D027 1,4-Dichlorobenzene	< 1.5
D028 1,2-Dichloroethane	< 0.5
D029 1,1-Dichloroethylene	< 0.7
D030 2,4-Dinitrotoluene	< 0.13
D031 Heptachlor (and its epoxide)	< 0.008
D032 Hexachlorobenzene	< 0.13
D033 Hexachlorocyclopentadiene	< 0.5
D034 Hexachlorocyclopentadiene	< 3.0
D035 Methyl Ethyl Ketone	< 200.0
D036 Nitrobenzene	< 2.0
D037 Pentachlorophenol	< 100.0
D038 Pyridine	< 5.0
D039 Tetrachloroethylene	< 0.7
D040 Trichloroethylene	< 0.5
D041 2,4,5-Trichlorophenol	< 400.0
D042 2,4,6-Trichlorophenol	< 2.0
D043 Vinyl Chloride	< 0.2

E. RCRA CHARACTERIZATION

- Is this material a "Hazardous Waste" under 40CFR 261.33? N
- Is this a "Characteristic Waste"? N If "Yes" is it: D001 Ignitable D002 Corrosive D003 Reactive D004-D043 Toxic, give specific codes
- Is this an "F" or "K" waste or mixed with both? If "Yes" give waste codes from 40CFR 261.31 and/or 261.32: _____
- Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (c) or (f)? N If "Yes" give codes
- Is this a state regulated waste? If "Yes" give code

DOT CHARACTERIZATION

- Is this a "Hazardous Substance/Marine Pollutant" as defined in 49CFR D.O.T. 17 N
- If "Yes" give the proper D.O.T. Shipping Description from 49 CFR 172.101: Non-Hazardous Waste Material
 (N/A): _____
- Hazardous Class: **RQ:** **0.00** **Packaging Group:**
- Give the two primary hazardous constituents: _____

FOR INTERNAL USE ONLY

Date Received: _____
 Date Approved: _____
 Treatment Method: _____

GENERATOR CERTIFICATION

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

NAME (Print): Rob Brown Title: PCI Manager (Wilson)
 SIGNATURE: _____ Date: 3-19-97

PCI MATERIAL DATA SURVEY

A.

Generator Name: Enforma Oil Field Rental Billing Name: VAN WATERS & ROGERS INC.
 Address: 2855 Southside River Road Address: 4300 Holly Street
Farmington, NM 87401 Denver, CO 80216

Technical Contact: Luke Owens Phone: (801) 583-3667 Fax: (801) 583-4660
 Federal EPA ID No: CESQC State ID No: _____ S.I.C. Code: 3533
 PCI Sales Rep: Bob Brown Broker Contact: Bernice Gaunt VWR Sales Rep: _____
 Common Name of Waste: Sump Liquid Bernice Gaunt
 Original Process Generating Waste (must be specific): Sump Clean Out
 Method of Shipment: 55 gallon Metal Drums, Barrels, Kegs Quantity: 5, Quarterly

B. PHYSICAL PROPERTIES @ 25C (77F)

Color: Dark Liquid % Total Halogens: _____ Specific Gravity: _____
 Odor: Mild Btu/lb: N/A pH: N/A Flashpoint: N/A
 Physical State: Liquid

C. CHEMICAL COMPOSITION
 (List Hazardous and Non-Hazardous components and corresponding range)

Component:	%
Sand	1.00 - 5.00
Dirt	1.00 - 5.00
Water	50.00 - 75.00
Oil	25.00 - 50.00
Antifreeze	25.00 - 50.00

OTHER COMPONENTS

	Y/N	TOTAL (PPM)
Cyanides	N	
Sulfides	N	
Reactive Cyanides	N	
Reactive Sulfides	N	
Amines	N	
PCB's	N	
Phenolics	N	

HAZARDOUS PROPERTIES

X	None
	Water Reactive
	Shock Sensitive
	Radioactive
	Corrosive
	Dioxins
	Benzene Neshap
	Air Reactive
	Pyrophoric
	Pesticide, Insecticide
	Enological
	Explosive
	Polymerizable
	Pathogen
	Biological

Other: _____

D. Based on knowledge or analysis, provide an actual value or value for TCLP concentrations or total metal concentrations in ppm.

INORGANIC CHARACTERISTICS

D004 Arsenic	< 5.0
D005 Barium	< 100.0
D006 Cadmium	< 1.0
D007 Chromium	< 5.0
D008 Lead	< 5.0
D009 Mercury	< 0.2
D010 Selenium	< 1.0
D011 Silver	< 5.0
Copper	
Zinc	

ORGANIC CHARACTERISTICS

D012 Endrin	< 0.02
D013 Lindane	< 0.4
D014 Methoxychlor	< 10.0
D015 Toxaphene	< 0.5
D016 2,4-Dichlorophenoxyacetic acid	< 10.0
D017 2,4,5-TP (Silvex)	< 1.0
D018 Benzene	< 0.5
D019 Carbon Tetrachloride	< 6.5
D020 Chlordane	< 0.03
D021 Chlorobenzene	< 100.0
D022 Chloroform	< 6.0
D023 o-Cresol	< 200.0
D024 m-Cresol	< 200.0
D025 p-Cresol	< 200.0
D026 Cresol	< 200.0
D027 1,4-Dichlorobenzene	< 7.5
D028 1,2-Dichloroethane	< 0.5
D029 1,1-Dichloroethylene	< 0.7
D030 2,4-Dinitrotoluenes	< 0.15
D031 Heptachlor (and it's epoxide)	< 0.008
D032 Hexachlorobenzene	< 0.13
D033 Hexachlorobutadiene	< 0.5
D034 Hexachloroethane	< 3.0
D035 Methyl Ethyl Ketone	< 200.0
D036 Nitrobenzene	< 2.0
D037 Pentachlorophenol	< 100.0
D038 Pyridine	< 5.0
D039 Trichloroethylene	< 0.7
D040 Trichloroethylene	< 0.5
D041 2,4,5-Trichlorophenol	< 400.0
D042 2,4,6-Trichlorophenol	< 2.0
D043 Vinyl Chloride	< 0.2

E. RCRA CHARACTERIZATION

1. Is this material a "Hazardous Waste" under 40CFR 261.17? N
 2. Is this a "Characteristic Waste"? N If "Yes" is it: D001 Ignitable D002 Corrosive D003 Reactive
D004-D043 Toxic, give specific codes
 3. Is this an "F" or "K" waste or mixed with one? If "Yes" give waste codes from 40CFR 261.31 and/or 261.32:
 4. Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (a) or (b)? N If "Yes" give codes
 5. Is this a state regulated waste? If "Yes" give code

DOT CHARACTERIZATION

1. Is this a "Hazardous Substance/Marine Pollutant" as defined in 49CFR D.O.T.? N
 2. If "Yes" give the proper D.O.T. Shipping Description from 49 CFR 172.101:
 Non-Hazardous Waste Material
 UN/NA#:
 3. Hazardous Class: _____ RQ: _____ 0.00 Packaging Group:
 4. Give the two primary hazardous constituents:

FOR INTERNAL USE ONLY

Date Received: _____
 Date Approved: _____
 Treatment Method: _____

GENERATOR CERTIFICATION

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

NAME (Print) Luke Owens Title Project Manager (Environmental)
 SIGNATURE [Signature] Date 3-19-97

PCI MATERIAL DATA SURVEY

A.
 Generator Name: Enterra Oil Field Rental Billing Name: VAN WATERS & ROGERS INC.
 Address: 2855 Southside River Road Address: 4300 Holly Street
Farmington, NM 87401 Denver, CO 80216
 Technical Contact: Luke Owens Phone: (801) 583-3667 Fax: (801) 583-4660
 Federal EPA ID No: CESQG State ID No: _____ S.I.C. Code: 3533
 PCI Sales Rep: Bob Brown Broker Contact: Bernice Gaunt VWR Sales Rep: _____
 Common Name of Waste: Sump Sludge Bernice Gaunt
 Original Process Generating Waste (must be specific): Sump Clean Out
 Method of Shipment: 55 gallon Metal Drums, Barrels, Kegs Quantity: 5, Quarterly

B. PHYSICAL PROPERTIES @ 25C (77F)
 Color: Dark Mud % Total Halogens: _____ Specific Gravity: _____
 Odor: Mild Bu/lb: N/A pH: N/A Flashpoint: N/A
 Physical State: Semi-Solid

D. Based on knowledge or analysis, provide an actual value or value for TCLP concentrations or total metal concentrations in ppm.

INORGANIC CHARACTERISTICS

D004 Arsenic	< 5.0
D005 Barium	< 100.0
D006 Cadmium	< 1.0
D007 Chromium	< 5.0
D008 Lead	< 5.0
D009 Mercury	< 0.2
D010 Selenium	< 1.0
D011 Silver	< 5.0
Copper	
Zinc	

ORGANIC CHARACTERISTICS

D012 Endrin	< 0.02
D013 Lindane	< 0.4
D014 Methoxychlor	< 10.0
D015 Toxaphene	< 0.5
D016 2,4-Dichlorophenoxyacetic acid	< 10.0
D017 2,4,5-TP (Silvex)	< 1.0
D018 Benzene	< 0.5
D019 Carbon Tetrachloride	< 0.5
D020 Chlordane	< 0.02
D021 Chlorobenzene	< 100.0
D022 Chloroform	< 6.0
D023 o-Cresol	< 200.0
D024 m-Cresol	< 200.0
D025 p-Cresol	< 200.0
D026 Cresol	< 200.0
D027 1,4-Dichlorobenzene	< 7.5
D028 1,2-Dichloroethane	< 0.5
D029 1,1-Dichloroethylene	< 0.7
D030 2,4-Dinitrophenol	< 0.11
D031 Heptachlor (and it's epoxide)	< 0.008
D032 Hexachlorobenzene	< 0.13
D033 Hexachlorobutadiene	< 0.5
D034 Hexachloroethane	< 3.0
D035 Methyl Ethyl Ketone	< 200.0
D036 Nitrobenzene	< 2.0
D037 Pentachlorophenol	< 100.0
D038 Pyridine	< 5.0
D039 Tetrachloroethylene	< 3.7
D040 Trichloroethylene	< 0.5
D041 2,4,6-Trichlorophenol	< 400.0
D042 2,4,6-Trichlorophenol	< 2.0
D043 Vinyl Chloride	< 0.2

C. CHEMICAL COMPOSITION
 (List Hazardous and Non-Hazardous components and corresponding range)

Component	%	OTHER COMPONENTS	TOTAL (PPM)
Sand	35.00 - 50.00	Cyanides	N
Dirt	35.00 - 50.00	Sulfides	N
Water	2.00 - 5.00	Reactive Cyanides	N
Oil	2.00 - 5.00	Reactive Sulfides	N
Antifreeze	2.00 - 5.00	Amines	N
		PCB's	N
		Phenolics	N

HAZARDOUS PROPERTIES

X None
Water Reactive
Shock Sensitive
Radioactive
Corrosive
Toxic
Benzene Neshap
Air Reactive
Pyrophoric
Pesticide, Insecticide
Etiological
Explosive
Polymerizable
Pathogen
Biological

Other: _____

E. RCRA CHARACTERIZATION

- Is this material a "Hazardous Waste" under 40CFR 261.33? N
- Is this a "Characteristic Waste"? If "Yes" is it: D001 Ignishie D002 Corrosive D003 Reactive D004-D043 Toxic, give specific codes
- Is this an "F" or "K" waste or mixed with one? If "Yes" give waste codes from 40CFR 261.31 and/or 261.32: _____
- Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (c) or (f)? If "Yes" give codes _____
- Is this a state regulated waste? If "Yes" give code _____

DOT CHARACTERIZATION

- Is this a "Hazardous Substance/Marine Pollutant" as defined in 49CFR D.O.T. N
- If "Yes" give the proper D.O.T. Shipping Description from 49 CFR 172.101: _____

Non-Hazardous Waste Material
 UN/NA#: _____ RID: 0.00 Packaging Group: _____

4. Give the two primary hazardous constituents: _____

FOR INTERNAL USE ONLY

Date Received: _____
 Date Approved: _____
 Treatment Method: _____

GENERATOR CERTIFICATION

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

NAME (Print): Luke Owens Title: Project Manager (Industrial)
 SIGNATURE: [Signature] Date: 3-19-97

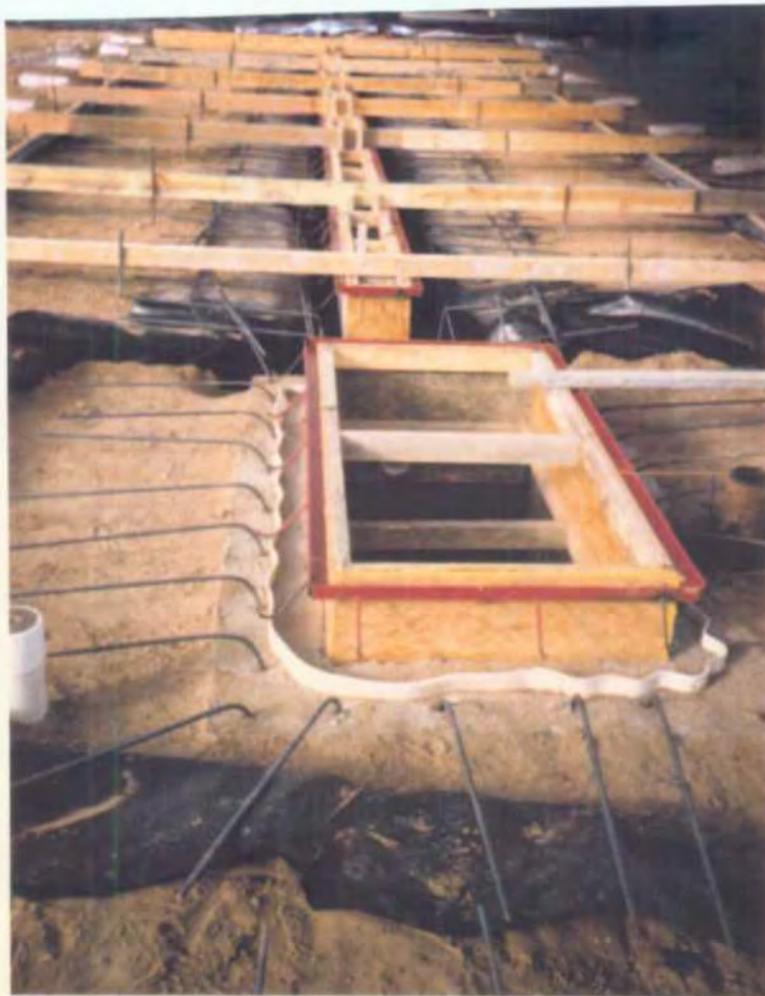
APPENDIX B
PHOTOGRAPHS OF HDPE LINER INSTALLATION



Installation of HDPE liner in separator excavation



Pouring concrete around floor drain
(note HDPE liner below concrete)



Formed and lined floor drain and sump



Separator installed with leak detection system



Floor drain, sump and separator following concrete pouring

APPENDIX C
LANDA BROCHURE

CLP SPECIFICATIONS

MODEL	CLP-7021A	CLP-7022A	CLP-7023A	CLP-7032A	CLP-7033A
MAXIMUM FLOW	15 gpm (57 lpm)	15 gpm (57 lpm)	15 gpm (57 lpm)	30 gpm (114 lpm)	30 gpm (114 lpm)
OIL/WATER SEPARATOR CAPACITY	600 gal (2271 liters)	600 gal (2271 liters)	600 gal (2271 liters)	600 gal (2271 liters)	600 gal (2271 liters)
SOLIDS SEPARATION CHAMBER	Yes	Yes	Yes	Yes	Yes
ELECTRICAL	230V 1ph 21 amps	230V 1ph 21 amps	230V 1ph 21 amps	230V 1ph 36 amps	230V 1ph 36 amps
FILTER PUMP	.5 hp	.5 hp	.5 hp	1.5 hp	1.5 hp
MEDIA FILTER	N/A	N/A	350 lbs (159 kg)	N/A	350 lbs (159 kg)
SUMP PUMP SUBMERSIBLE	.5 hp	.5 hp	.5 hp	.5 hp	.5 hp
CARTRIDGE FILTER	(1) 200 sq ft 20 micron	(2) 200 sq ft 20 micron	(2) 200 sq ft 20 micron	(2) 200 sq ft 20 micron	(2) 200 sq ft 20 micron
CARBON FILTER (degassed)	200 lbs (91 kgs)	330 lbs (150 kgs)	200 lbs (91 kgs)	330 lbs (150 kgs)	200 lbs (91 kgs)
TRANSFER PUMP CENTRIFUGAL	.5 hp	.5 hp	.5 hp	2 hp	2 hp
OIL SKIMMER	Yes	Yes	Yes	Yes	Yes
OZONE GENERATOR	Series 400	Series 400	Series 400	Series 400	Series 400
COALESCING PACK	340 sq ft	340 sq ft	340 sq ft	340 sq ft	340 sq ft
CLARIFIED HOLDING TANK	65 gal (246 liters)	65 gal (246 liters)	65 gal (246 liters)	65 gal (246 liters)	65 gal (246 liters)
FILTERED WATER HOLDING TANK	65 gal (246 liters)	65 gal (246 liters)	65 gal (246 liters)	65 gal (246 liters)	65 gal (246 liters)
ORP/pH CONTROLLER	Standard	Standard	Standard	Standard	Standard
ELECTRICAL PANEL	Nema 4	Nema 4	Nema 4	Nema 4	Nema 4
DIMENSIONS L x W x H	96" x 72" x 110" (244 cm x 183 cm x 279 cm)				
NET DRY WEIGHT (approx)	1945 lbs (882 kgs)	2075 lbs (941 kgs)	2500 lbs (1134 kgs)	2445 lbs (1109 kgs)	2520 lbs (1143 kgs)

Note: We are constantly improving and updating our products. Consequently, pictures, features and specifications in this brochure may differ slightly from current models.

CLP ACCESSORIES



Fiberglass Collection Pit & In-ground Oil/Water Separator #30-710



Fiberglass Sump Pit/Catch Basin 3'x3'x4.5' #30-714, 2'x2'x3' #30-715



Solids Separator Assembly #30-757



Grass Catcher Sludge Dumpster #30-581



Pit Cleaner #30-575
Sludge Cart #30-580



Activated Carbon Bulk #9-029900,
50lb Bag #9-29950



Replacement Cartridge Elements
20 Micron, 200 sq ft #65-42-3540-01



5-way Test Strips #9-52029
pH Test Strips #9-52032

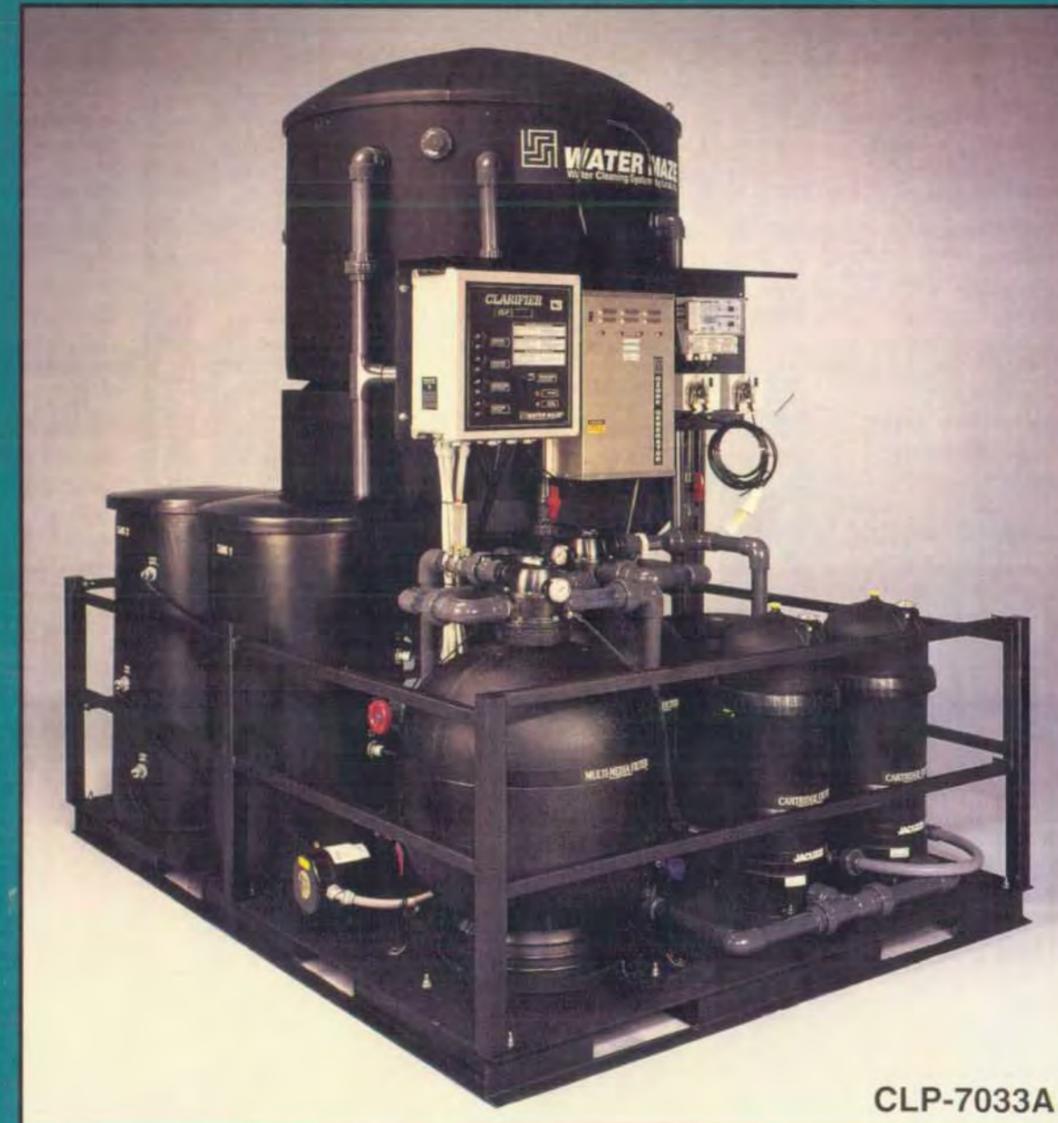


Distributed By:

CETA

FORM #96-0349 • 5/96 • LANDA, INC. • 13705 NE AIRPORT WAY, PORTLAND, OR 97220-1048 • 1-800-645-2632

WATER MAZE® CLP



CLP-7033A

**SELF-CONTAINED, ABOVE-GROUND
WASH-WATER RECYCLING SYSTEM**

CLP: SELF-CONTAINED WASH-WATER RECYCLING SYSTEM WITH ABOVE-GROUND OIL-WATER-SOLIDS SEPARATION

CLP Advantages:

- ▶ Above-ground system reduces risk of undetected leaks and the need for large, costly below-ground pits.
- ▶ Self-contained system on a single platform makes installation remarkably simple and quick.
- ▶ User-friendly, above-ground sludge disposal system.
- ▶ Reusable and backwashable filters for lower operational and maintenance costs.
- ▶ Unique, steep-pitched coalescing pack optimizes oil-water-solids separation.
- ▶ Chemical monitoring and injection system for introducing flocculants and other chemicals to further enhance the CLP's cleaning capabilities.

Ten Coalescing Cones: Cone-shaped coalescing plates, made of oil-loving polypropylene, provide several benefits: (1) 340 sq. ft. of oil-coalescing surface area (most clarifiers have none); (2) Cones are angled at 55° for optimum oil-water-solids separation (i.e. Stokes' Law); and (3) They force the water flow to slow even more, which enhances the separation process and prevents channeling.

Clear Tubing: For constant monitoring of water flow.

Heavy Metal Frame: Steel frame is painted by state-of-the-art electrostatic, powder-coat system for added protection.

Multi-Media Filter: 350 lbs. of a special blend of sand, gravel, and anthracite, screen out dirt and other solids to about 40 microns in size. With an easy-to-operate top valve, the filter is backwashed under pressure for more effective media cleaning.

Chemical-Resistant Tank: 600-gallon, extra strength, cross-linked, polyethylene tank is resistant to corrosion and chemicals—unlike clarifiers with steel tanks.

Oil Skimmer: Adjustable for automatic removal of oil, which is deposited in a waste-oil container where water is easily decanted for enhanced waste minimization.

Cone-Shaped Design: One of the "secrets" of this system is how effectively it slows the flow of the water, thus enhancing the settling of solids. The cone-shaped design forces the water to the edges of the tank creating the effect of water flowing from a 1 1/2-inch pipe into a 4-ft. pipe. The drop in velocity is dramatic!

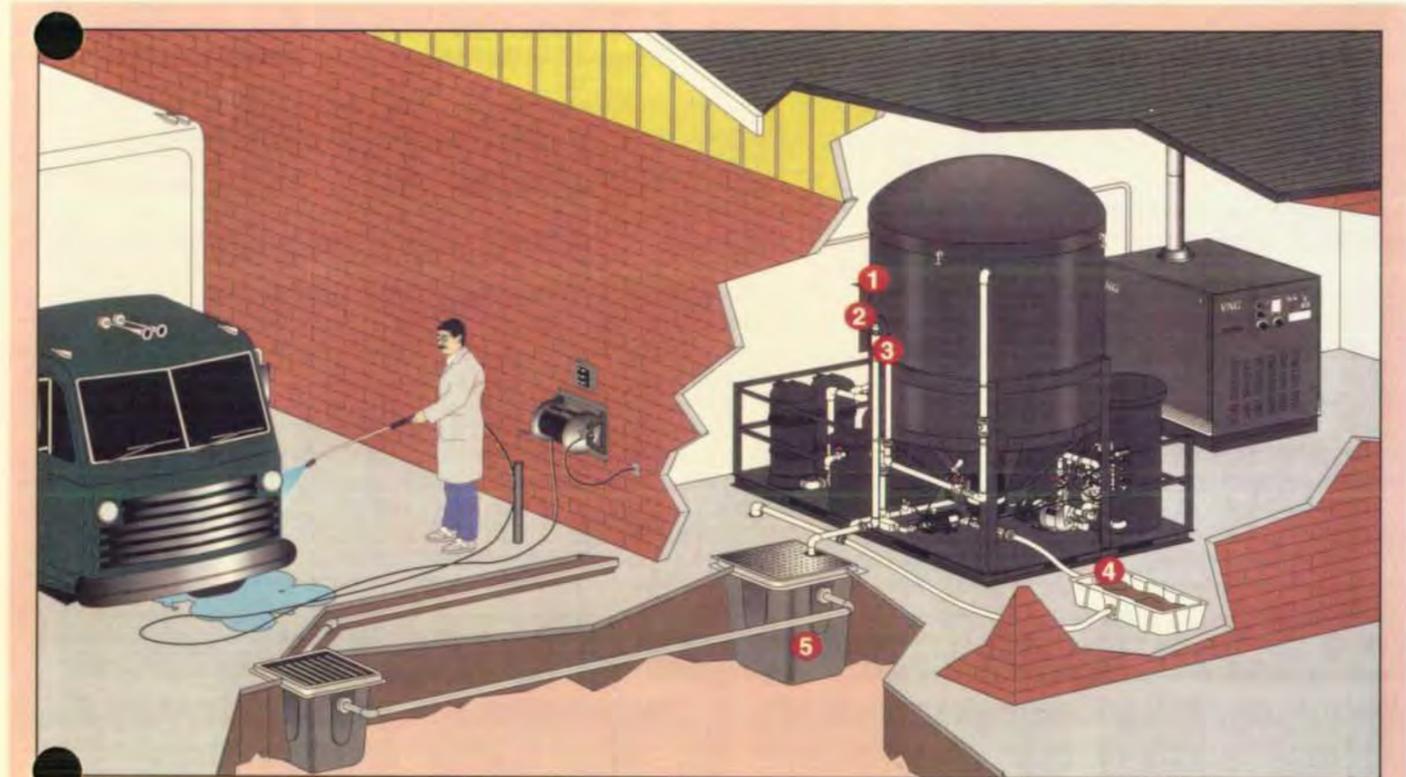
Schedule 80 PVC: Piping features strength, durability and UV protection.

Process Water Manifold System: Water exits the tank through a series of holes in a circular tube resulting in a more even water flow. Also the manifold is located nearly three feet below the surface insuring that oily water on the surface does not exit with the clean water.

Overflow Return: Wastewater that drains from sludge bag or decants from oil bucket is automatically returned to catch basin.

Cartridge Filters: Tightly-woven polyester elements, with 200-400 sq. ft. of filtration area, effectively filter and collect solids larger than 5-20 microns. Filter housing is extremely easy to access so elements can be removed, cleaned and reused for lower operational costs.

Carbon Filter: 200-330 lbs. of degassed, virgin activated carbon removes, through adsorption, pesticides, solvents, benzenes, diesel fuels, acetones, and other hydrocarbons, as well as low levels of heavy metals; easily backwashed for more efficient use of carbon surface.



1 Control Panel: Includes switches, timers, indicator lights and gauges for operating and monitoring the system.

2 ORP/pH Controller: Electronically monitors the waste stream pH, then automatically maintains proper pH and ORP levels. Also serves as a chemical injection system for further enhancement of the system's cleaning capability.

3 Series 400 Ozonator and Pump Assembly: Top-of-the-line, timer-controlled ozonator injects bacteria-and-odor-killing ozone into the waste stream using a mixing procedure that ensures up to 97% contact—far more effective than bubbling ozone up into a tank of water.

4 Sludge Disposal System: A ball valve allows sludge to flow into a container for mess-free disposal of solid residue. The wastewater is automatically drained back to the catch basin.

5 Durable Sump Pump (inside sump pit): Submersible, cast-iron, 2-inch sump pump, designed for handling a waste stream with heavy solids, pushes the wastewater into the system. It is designed so water and debris are not forced through pump impellers. The motor housing is oil filled for lifetime lubrication, rapid heat dissipation, and protection against condensation build up in the motor.

APPENDIX D
ODC NOTIFICATION FORM

State of New Mexico
Energy and Minerals Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

Name of Operator				Address				
Report of	Fire	Break	Spill	Leak	Blowout	Other*		
Type of Facility	Drig Well	Prod Well	Tank Btty	Pipe Line	Gaso Pint	Oil Rfy	Other*	
Name of Facility								
Location of Facility (Quarter/Quarter Section or Footage Description)					Sec.	Twp.	Rge.	County
Distance and Direction From Nearest Town or Prominent Landmark								
Date and Hour of Occurrence				Date and Hour of Discovery				
Was Immediate Notice Given?	Yes	No	Not Required	If Yes, To Whom				
By Whom				Date and Hour				
Type of Fluid Lost				Quantity of Loss	_____ BO _____ BW	Volume Recovered	_____ BO _____ BW	
Did Any Fluids Reach a Watercourse?	Yes	No	Quantity					
If Yes, Describe Fully**								
Describe Cause of Problem and Remedial Action Taken**								
Describe Area Affected and Cleanup Action Taken**								
Description of Area	Farming	Grazing	Urban	Other*				
Surface Conditions	Sandy	Sandy Loam	Clay	Rocky	Wet	Dry	Snow	
Describe General Conditions Prevailing (Temperature, Precipitation, Etc.)**								
I Hereby Certify That the Information Above is True and Complete to the Best of My Knowledge and Belief								
Signed		Title			Date			

*Specify

**Attach Additional Sheets if Necessary



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

February 17, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-767

Ms. Becky Albers
Environmental Compliance Supervisor
Weatherford Enterra
9203 Emmott Street
Houston, Tx 77040

RE: Discharge Plan GW-126 Renewal
Weatherford Enterra, Inc. (WEI) Farmington Facility
San Juan County, New Mexico

Dear Ms. Albers:

On August 19, 1992, the groundwater discharge plan, GW-126, for the **WEI - Farmington Facility** located in SW/4 NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on August 19, 1997.**

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires (on or before April 19, 1997), 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 WEI 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 **WEI - Farmington Facility** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50 plus a flat fee of \$690 for Oilfield Services Companies. The \$50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

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

Ms. Becky Albers
WEI, GW-126
6 Month Renewal Notice
February 17, 1997
Page 2

Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. Note that the completed and signed application form must be submitted with your discharge plan renewal request. (Copies of the WQCC regulations and discharge plan application form and guidelines are enclosed to aid you in preparing the renewal application. A complete copy of the regulations is also available on OCD's website at www.emnrd.state.nm.us/oed/)

If Weatherford Enterra, Inc. no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If Weatherford Enterra, Inc. has any questions, please do not hesitate to contact Pat Sanchez at (505) 827-7156.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

RCA/pws

enclosed: 20 NMAC 6.2 "WQCC Regulations", Discharge Plan Guidelines, Discharge Plan Application Form.

c: Mr. Denny Foust

P 288 258 767

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

Sent to WEI-GW-126 Ms Albers	
Street & Number 6 Mo. Ren Notice.	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800 April 1995

MEMORANDUM OF MEETING OR CONVERSATION

Telephone

Personal

Time 8:45AM

Date 6-13-96

Originating Party

Other Parties

* Pat Sanchez - NMCD

Ms. Jean Muniz w/ Demencia (Notes)
883-6250

Subject

Weatherford discharge Plan file - returned
in poor condition from Alphagraphics.
6w-126

Discussion

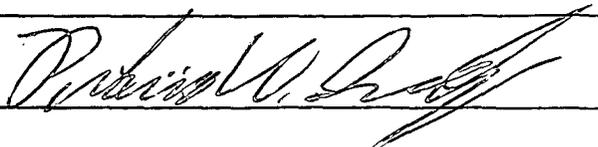
Let Ms Muniz know that we (OCD)
are not happy with the manner in which
Alphagraphics returned our (the States) files.
Also - we already called alphagraphics
and made them aware of their mistake -
and let them know that they are probably
going to get a call from Ms Muniz.

Conclusions or Agreements

We (OCD) recommend possibly
that Ms. Muniz look for seek out other
copying companies because of the way
alphagraphics returned our (the States) file.

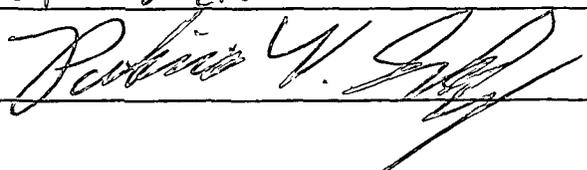
Distribution File 6w-126

Signed



* Ms. Muniz returned my call (I called earlier at 8:00AM)

MEMORANDUM OF MEETING OR CONVERSATION

<input checked="" type="checkbox"/> Telephone	<input type="checkbox"/> Personal	Time 7:45AM	Date 6-13-96
<u>Originating Party</u>		<u>Other Parties</u>	
Pat Sanchez - NMCD		Bernie Hardgrave - - Alphagraphics. 478-1300	
<u>Subject</u> File for Discharge Weatherford.		Plan GW-126	
<u>Discussion</u> Told Bernie that our permit file had been returned out of order and missing one of the metal tabs that hold the file together - also mentioned that they were supposed to call at 4:00 pm yesterday (6-12-96) and let me know if they were going to be done with the file.			
<u>Conclusions or Agreements</u> Bernie said he would follow up on who handled the file. I told Bernie that I am going to call (Domenici/Delan) Ms. Jean Muniz and let her know that the file was returned out of order.			
<u>Distribution</u> File GW-126		<u>Signed</u> 	

alphagraphics®

Printshops Of The Future

DELIVERY

Date 6/12/96 Time 4:55 PM

Delivery made by Rich

From: Press Dept. #45 #92

To: Name Pat Sanchez (STATE OF NEW MEXICO)

Address 2040 S. PACHECO (OIL CONSERVATION DIVISION)

City S.I. State N.M. Zip _____

Telephone 827-7156 Contact _____

C.O.D. Amount \$ _____

Charge

Description _____

Received by _____

DESIGN COPY PRINT

alphagraphics®
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2002-C Cerrillos Road
Santa Fe, NM 87505
505-473-1300/FAX 505-473-3460
Voice Mail 505-989-5839

Herman Rodriguez
General Manager



ENVIRONMENTAL CONSULTING & REMEDIATION SERVICES

**DISCHARGE PLAN FOR
WEATHERFORD ENTERRA, INC.
LOCATION 32004
FARMINGTON, NEW MEXICO**

RECEIVED

DEC 1 2 1995

Environmental Bureau
Oil Conservation Division

November 1995

Prepared For:

**WEATHERFORD ENTERRA, INC.
9203 Emmott Street
Houston, Texas 77040**

Prepared By:

**NICKELL ENVIRONMENTAL CORPORATION
11246 S. Post Oak, Suite 306
Houston, Texas 77035
(713) 726-9596**

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 equipment rental and storage; Wireline services
2. Operator: Weatherford Enterra, Inc. (Location 32004)
Address: 5432 U.S. Hwy 64, Farmington, New Mexico 87401
Contact Person: Jack Dunson Phone: 505-327-6341
3. Location: SW /4 NW /4 Section 19 Township 29 Range 12W
Submit large scale topographic map showing exact location.
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: Desa Griffin Title: Environmental Manager

Signature:  Date: 11-8-95

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES

**Weatherford Enterra, Inc.
Farmington, New Mexico**

I. Type of Operation

Oilfield equipment rental and storage and wireline services.

II. Name of Operator and Local Representative

Weatherford Enterra, Inc.
Location 32004
5432 U. S. Highway 64
Farmington, New Mexico 87401
(505) 327-6341
Local Contact: Mr. Jack Dunson

III. Location of Discharge

The Weatherford Enterra, Inc. (WEI) Location 32004 facility is situated in the southwest corner of the northwest corner of Section 19, Township 29 North, Range 12 West in San Juan County, New Mexico. The facility is located at 5432 U. S. Highway 64 in Farmington, New Mexico (Figure 1).

IV. Name and Address of Landowner of the Facility

Mr. Cecil E. McClelland
Post Office Box 4010 Bayview
Los Fresnos, Texas 78566
(512) 233-4128



R 13 W

R 12 W



T 29 N



Reference: Farmington South Quadrangle
 New Mexico - San Juan, County.
 7.5 Minute Series (Topographic).
 SCALE: 1: 24,000

NICKELL ENVIRONMENTAL CORPORATION		
FIGURE 1		
SITE LOCATION MAP		
Weatherford Enterra, Inc. Farmington, New Mexico		
Date 4/30/92		

V. Description of the Facility

The facility lies on a tract of approximately 13.5 acres of land. It is bordered to the south by U. S. Highway 64; to the southwest by Magcobar (a drilling mud company); to the east by Jordan Drilling Fluids; to the northeast by Weskem (a drilling mud company); to the north by Walters Drilling Company; to the northwest by another drilling mud company; and to the west by two office buildings located across a public street (Figure 2).

The facility lies at an approximate elevation of 5380 feet above mean sea level. Echo Ditch is located immediately south of U.S. Highway 64 and approximately one-half mile north-northeast of the San Juan River. The topography at the facility is relatively flat. It slopes to the south towards a drainage ditch located on the north side of Highway 64. The north and part of the east edges of the facility are bordered by a sandstone bluff. The majority of the WEI facility is surfaced with road base.

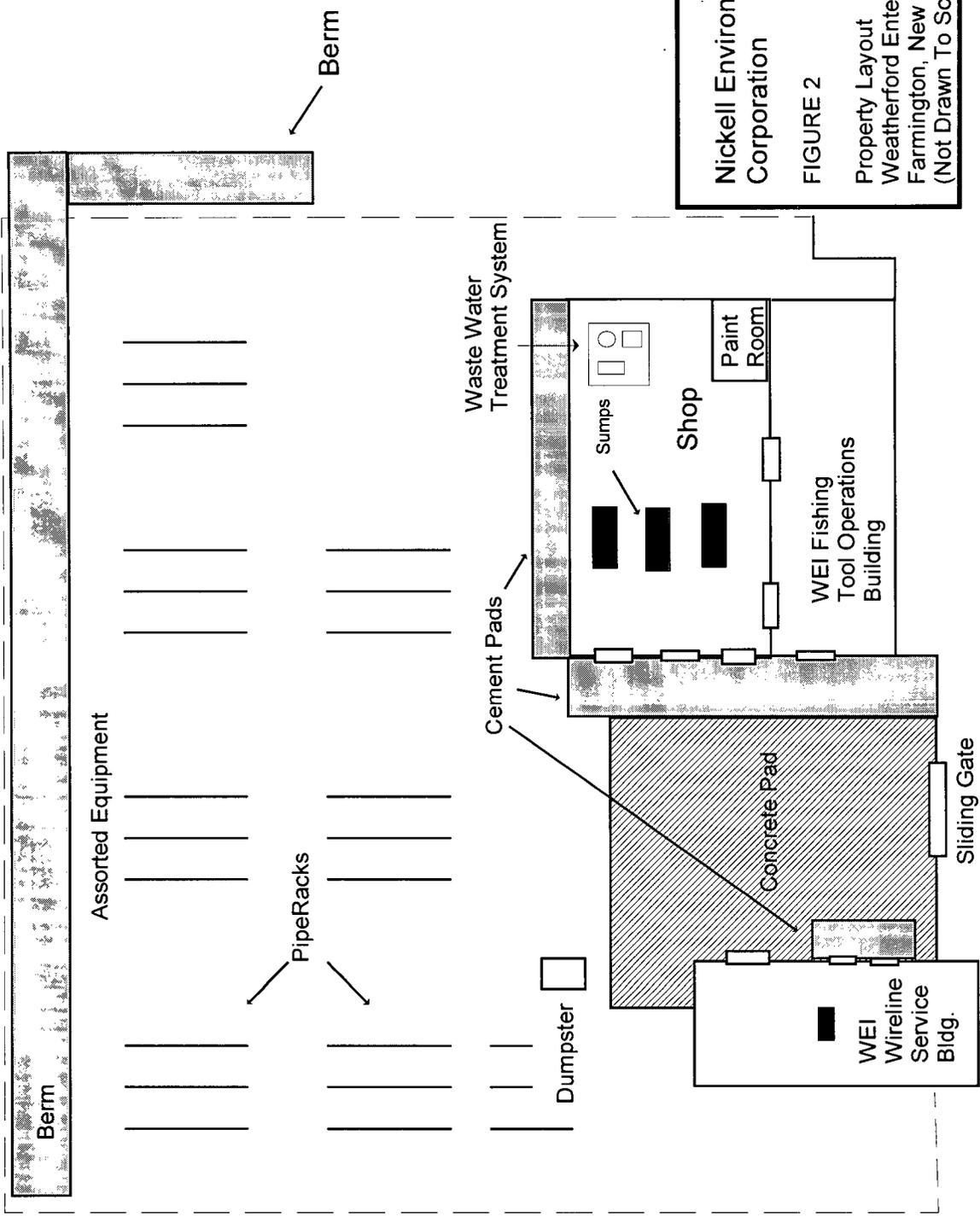
Two structures are located on the property, the WEI Fishing Tools Operations building and the WEI Wireline Services building (Figure 2). Concrete slabs are adjacent to portions of both the WEI Wireline Services and WEI Fishing Tool Operations buildings. In addition, the area immediately between the two buildings is paved with concrete.

The WEI Fishing Tool Operations building is the center of plant operations and houses the administrative offices. The WEI Wireline Services building contains a water pump/hot water heater system which is used to wash logging tools, wireline trucks and passenger vehicles. Significantly dirtier equipment (e.g., blowout preventers, drill collars, drill bits, etc.) is steam cleaned in the main shop located in the WEI Fishing Tool Operations building. A Watermaze oil/water separator is installed in the WEI Fishing Tool Operations building. The separator processes and recycles wash water used for steam cleaning operations in the WEI Fishing Tool Operations building. Industrial waste water from the WEI Wireline Services building is routed via two-inch diameter polyvinylchloride (PVC) pipe to the oil/water separator in the WEI Fishing Tool Operations building.

A Drilling
Mud
Company

Walter's Drilling

Fence



Nickell Environmental
Corporation

FIGURE 2

Property Layout
Weatherford Enterra, Inc.
Farmingington, New Mexico
(Not Drawn To Scale)

Public Road

Teffeller Inc
Jade Sales &
Service
ITT Barton
Instruments

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

The three-page attachment to Part VI describes the materials used or stored at the facility. Locations specified in this attachment refer to Figure 2 in Section V (Facility Layout). The following abbreviations are used in the Attachment to this section:

Shop = Shop in the WEI Fishing Tool Operations building.

Paint Room = Paint room in the WEI Fishing Tool Operations building.



PART VI ATTACHMENT
Materials Stored or Used at the Facility
Discharge Plan Application
Weatherford Enterra, Inc.
Farmington, New Mexico
April 1992

Name	General Makeup or Brand Name	Solids(S) or Liquids(S)	Type of Container	Estimated Volume Stored	Location	
1. Drilling Fluids	NA	NA	NA	NA	NA	
2. Brines	NA	NA	NA	NA	NA	
3. Acids/Caustics	NA	NA	NA	NA	NA	
4. Detergents/Soaps	ZEP Double Play	L	1-Gallon Dispenser	4 Gallons	Shop	
	Grit Away	L	1-Gallon Buckets	4 Gallons	Shop	
	Ruff Neck	S	50-Pound Canister	50 Pounds	Shop	
	Car Wash Soap (Classic Pink HpH)	S	50-Pound Canister	50 Pounds	Shop	
	Premiere Laundry Detergent	S	40-Pound Plastic Container	40 Pounds	Shop	
5. Solvents/Degreasers (MSD Sheets Attached)	Safety Kleen	L	Tank	30 to 40 Gallons	Shop	
	Bomber Aerosol	Aerosol	16-Ounce Cans	12 Cans	Shop*	
6. Paraffin Treatment/ Emulsion Breakers	NA	NA	NA	NA	NA	
7. Biocides	NA	NA	NA	NA	NA	
8. Others	Paint	Krylon Enamel Brand				
		Bright Copper	Aerosol	12-Ounce Cans	12 Cans	Paint Room*
		Red	Aerosol	12-Ounce Cans	3 Cans	Paint Room*
		Black	Aerosol	12-Ounce Cans	1 Can	Paint Room*
		Silver	Aerosol	12-Ounce Cans	3 Cans	Paint Room*
		Primer	Aerosol	12-Ounce Cans	1 Can	Paint Room*
		Wellborn Enamel Brand				
		Red	L	1-Gallon Can	1 Can	Paint Room*
		Blue	L	1-Gallon Can	1 Can	Paint Room*
		Yellow	L	1-Gallon Can	3 Cans	Paint Room*
		Green	L	1-Gallon Can	1 Can	Paint Room*
		Black	L	1-Gallon Can	1 Can	Paint Room*

NA - Not Applicable

* - Stored in a fire-proof metal cabinet.

PART VI ATTACHMENT (Continued)
Materials Stored or Used at the Facility
Discharge Plan Application
Weatherford Enterra, Inc.
Farmington, New Mexico
April 1992

Name	General Makeup or Brand Name	Solids(S) or Liquids(S)	Type of Container	Estimated Volume Stored	Location
8. Others (continued)					
	Paint				
	Crown Paint Company				
	WEI Yellow (water base enamel)	L	1-Gallon Can	20 Cans	Paint Room*
	Miscellaneous Brands				
	MC817 Machine Red EN (Paint)	L	1-Gallon Bucket	1 to 2 Gallons	Paint Room*
	Paint, Acrylic, Enamel, and Prot. Coatings	L	1-Gallon Can	8 Cans	Paint Room*
	Lubricants				
	WD-40	L	1-Gallon Jug	2 Jugs	Shop*
	Almagord 3752	S	14.5-Ounce Tubes	106 Tubes	Shop*
	ZEP Dry Moly	Aerosol	20-Ounce Cans	24 Cans	Shop*
	MD-113 Dry Moly Film Lube	Aerosol	12-Ounce Cans	24 Cans	Shop*
	E-Z Cut	Aerosol	12-Ounce Cans	6 Cans	Shop*
	LPS II	Aerosol	12-Ounce Cans	1 Can	Shop*
	LPA II	Aerosol	12-Ounce Cans	12 Cans	Shop*
	AS-201	Aerosol	12-Ounce Cans	12 Cans	Shop*
	Oxidizers				
	Bromine Trifluoride	S	Steel Cylinders	50 Cups	Wireline Building

* - Stored in a fire-proof metal cabinet.

PART VI ATTACHMENT (Continued)
Materials Stored or Used at the Facility
Discharge Plan Application
Weatherford Enterra, Inc.
Farmington, New Mexico
April 1992

Name	General Makeup or Brand Name	Solids(S) or Liquids(S)	Type of Container	Estimated Volume Stored	Location
8. Others (continued)					
Fuels, Fuel Supplements, and Oils	Regular Gasoline	L	5-Gallon Metal Cans	20-Gallons	Outside
	CHEVRON SAE 30	L	55-Gallon Drum	55-Gallons	North Wall of Shop
	DELO 400 Plus	L	1-Gallon Plastic Jugs	8-Gallons	North Wall of Shop
	Heavy Duty Motor Oil SAE 30	L	5-Gallon Buckets	25-Gallons	North Wall of Shop
	R&O 32 Hydraulic Oil	L	55-Gallon Drum	55-Gallons	North Wall of Shop
	R&O 46 Hydraulic Oil	L	55-Gallon Drum	55-Gallons	North Wall of Shop
	PN-105	Aerosol	16-Ounce Cans	12 Cans	Shop
Miscellaneous	Propane Fuel	Gas	14-Ounce Cans	3 Cans	Shop*
	BP-117 Battery Cleaner	Aerosol	12-Ounce Cans	1 Can	Paint Room*
	BP-118 Battery Coating	Aerosol	12-Ounce Cans	1 Can	Paint Room*
	SHY-NEE Glass Cleaner	L	18-Ounce Spray Cans	12 Cans	Shop*

* - Stored in a fire-proof metal cabinet.

SAFETY-KLEEN 105 PARTS WASHING SOLVENT

MATERIAL SAFETY DATA SHEET

SECTION I -- PRODUCT INFORMATION

Safety-Kleen Corporation - 777 Big Timber Road - Elgin, IL 60123
 For Product/Sales Information Call 708/697-8460

EMERGENCY TELEPHONE	MEDICAL:	TRANSPORTATION:
These numbers are for emergency use only. If you desire non-emergency information about this product, please call the telephone number listed above.	800/942-5969 or 312/942-5969 RUSH POISON CONTROL CENTER CHICAGO, ILLINOIS (24 HOURS)	800/424-9300 CHEMTREC

IDENTITY (TRADE NAME): SAFETY-KLEEN 105 PARTS WASHING SOLVENT

SYNONYMS: PETROLEUM DISTILLATES, PETROLEUM NAPHTHA, MINERAL SPIRITS, STODDARD SOLVENT

SK PART NUMBER: 6617

FAMILY/CHEMICAL NAME: HYDROCARBON SOLVENT

PRODUCT USAGE: SOLVENT FOR CLEANING AND DEGREASING PARTS

SECTION II -- HAZARDOUS COMPONENTS

NAME	SYNONYM	%	CAS NO.	OSHA PEL (ppm)	ACGIH TLV (ppm)
Parts Washer Solvent (consists predominantly of C9-C13 hydrocarbon)	Mineral Spirits	(Typical % by Wt.)			
C9-C13 Saturated Hydrocarbon		85	64741-41-9	100 (Stoddard Solvent)	100 (Stoddard Solvent)
*Toluene		0.5	108-88-3	100 150 STEL	100 150 STEL
*Xylene		1.0	1330-20-7	100 150 STEL	100 150 STEL
*Ethyl Benzene		0.5	100-41-4	100 Skin 125 STEL	100 125 STEL
C8+ Aromatics		12.0	Mixture	N/E	N/E
Chlorinated Solvents		(Max 1% by Wt.)			
*1,1,1 Trichloroethane		< 0.5	71-55-6	350 450 STEL	350 450 STEL
*Tetrachloroethylene		< 0.5	127-18-4	25	50 200 STEL

N/E = Not Established
 * See Section X - Other Regulatory Information

SECTION III -- PHYSICAL DATA

PHYSICAL STATE, APPEARANCE AND ODOR: Combustible liquid - clear, green, with characteristic hydrocarbon odor.

BOILING POINT: 300° - 429° F

EVAPORATION RATE: (Butyl Acetate = 1) 0.1
PERCENT VOLATILE: 99.9%
VAPOR DENSITY: 4.9 (Air = 1)
VAPOR PRESSURE: 2 mm of Hg at 68° F
SOLUBILITY IN WATER: Negligible
pH: Not Applicable
SPECIFIC GRAVITY: 0.77 to 0.80
MOLECULAR WEIGHT: Approximately 142
VOLATILE ORGANIC COMPOUNDS: 795 g/L

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 105° F (SETA)
AUTOIGNITION TEMPERATURE: 473° F
CONDITIONS OF FLAMMABILITY: Materials must be moderately heated before ignition can occur.
FLAMMABLE LIMITS IN AIR - LOWER: 0.7% **UPPER:** 6.0%
EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical, water (mist only).
FIRE FIGHTING PROCEDURES -- SPECIAL: NFPA 704 Rating 2-2-0

Keep storage tanks cool with water spray. Use self-contained breathing apparatus (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Decomposition and combustion products may be toxic. Heated tanks may rupture, explode or be thrown into the air. Vapors are heavier than air and may travel great distances to ignition source and flashback.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition and burning may produce carbon monoxide.

SECTION V -- REACTIVITY DATA

STABILITY: Normally stable even under fire exposure conditions and is not reactive with water. Normal firefighting procedures may be used.
INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents (e.g. chlorine, peroxides, strong acids).
HAZARDOUS POLYMERIZATION: Not known to occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Normally none; however, incomplete burning may yield carbon monoxide.

SECTION VI -- HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Skin and eye contact; inhalation.
HEALTH HAZARD DATA/SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: *Skin:* Prolonged or repeated contact tends to remove skin oils, possibly leading to irritation and dermatitis. No significant skin absorption hazard.

Eyes: Contact may cause slight to moderate irritation. High vapor concentrations (> 500 ppm) are irritating to the eyes.

Inhalation: High concentrations of vapor or mist may be irritating to the respiratory tract, cause headaches, dizziness, nausea, impaired coordination, anesthesia and may have other central nervous system effects.

Ingestion: Low order of acute oral toxicity. May cause irritation of the throat, nausea, vomiting and symptoms of central nervous system depression. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

CHRONIC: Prolonged and/or repeated contact may cause drying and cracking of the skin or dermatitis.

OTHER POTENTIAL HEALTH HAZARDS:

The impurities that may be present are not expected to add significantly to the effects of exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with pre-existing central nervous system dysfunction may have increased susceptibility to the effects of exposure. Contact with skin may aggravate pre-existing dermatitis.

CARCINOGENICITY: Tetrachloroethylene is listed by IARC and NTP as a suspected carcinogen. Studies indicate that Ethyl Benzene and 1,1,1 Trichloroethane are experimental teratogens.

SECTION VII -- EMERGENCY AND FIRST AID PROCEDURES

- EYES:** For direct contact, flush eyes with water for 15 minutes lifting upper and lower lids occasionally. Consult physician if irritation or pain persists. If irritation or redness from exposure to vapors or mists develop, move victim away from exposure into fresh air.
- SKIN:** Remove contaminated clothing. Wash skin twice with soap and water. If irritation develops and persists, consult a physician.
- INGESTION:** If conscious, dilute with 4 to 8 ounces of water and seek immediate medical attention. DO NOT induce vomiting.
- INHALATION:** Remove to fresh air immediately. Use oxygen if there is difficulty breathing or artificial respiration if respiration has stopped. Do not leave victim unattended. Seek immediate medical attention if necessary.

SECTION VIII -- PRECAUTIONS FOR SAFE USE AND HANDLING

- SPILL PROCEDURES:** Remove all ignition sources. Ventilate area and avoid breathing vapors. For large spills, isolate area and deny entry. If possible, contain as a liquid for possible re-refining. Absorb onto sand or other absorbent material. Shovel into closable container for disposal. Wear protective equipment specified below. Contain away from surface waters and sewers.
- WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State, and local regulations. Contact Safety-Kleen regarding recycling.
- HANDLING PRECAUTIONS:** Avoid contact with eyes, skin or clothing. Use in well ventilated area and avoid breathing vapors or mists. Keep away from heat, sparks and open flames.
- SHIPPING AND STORING PRECAUTIONS:** Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, grind or expose containers to flame or other sources of ignition. Keep container tightly closed when not in use and during transport.

**PERSONAL
HYGIENE:**

Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco products. Launder contaminated clothing and clean protective equipment before reuse.

SECTION IX -- CONTROL MEASURES

VENTILATION:

Provide local exhaust or general dilution ventilation as determined necessary to maintain concentrations of vapors or mists below applicable exposure limits. Where explosive mixtures may be present, systems safe for such locations should be used.

**PROTECTIVE
GLOVES:**

Use nitrile or neoprene gloves to prevent contact with skin.

**EYE
PROTECTION:**

Where there is likelihood of spill or splash, wear chemical goggles or faceshield. Contact lenses should not be worn.

**RESPIRATORY
PROTECTION:**

Use NIOSH-approved respiratory protective equipment when concentration of vapors or mists exceeds applicable exposure limit. Depending on the airborne concentration, use a respirator or gas mask with appropriate cartridges and canisters (for organic vapor with mist prefilter). A self-contained breathing apparatus (SCBA) is required for large spills and emergencies. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134 - Respiratory Protection.

**OTHER PROTECTIVE
EQUIPMENT:**

Wear solvent-resistant boots, apron or other protective clothing where spills and splashes are possible. A source of clean water should be available in work areas for flushing the eyes and skin.

SECTION X -- OTHER REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: Petroleum Naphtha

DOT CLASS: Combustible Liquid

DOT NUMBER: UN 1255

SARA TITLE III: Product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Toxic constituents are listed with an asterisk in Section II of this Material Safety Data Sheet.

Product poses the following physical and/or health hazard(s) as defined in 40 CFR 370.3 (Sections 311, 312 of SARA Title III):

Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

SECTION XI -- PREPARATION INFORMATION

PREPARED BY: SK Product Review Committee

FORM NO. 900-14-001

ORIGINAL ISSUE DATE: July 20, 1989

REVISED: March 12, 1990 **SUPERSEDES:** July 20, 1989

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet applies to the material as supplied to the user.

(014776-0148# -40089972-80025055) | DATE OF ISSUE | SUPERSEDES
 05/15/89 | 05/12/89

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS: N/A
 TRADE NAME & SYNONYMS: BOMBER AEROSOL
 CHEMICAL FAMILY: AROMATIC/ALIPHATIC SOLVENTS
 FORMULA: X<-MIXTURE
 MANUFACTURERS NAME: DYNA SYSTEMS A PARTSMASER CO DIV OF NCH
 ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE): P.O. BOX 855328, DALLAS, TEXAS 75285-5328
 PREPARED BY: KEVIN UHL/T.S. CHEMIST | PRODUCT CODE NUMBER: 80025055 | EMERGENCY TELEPHONE NUMBER: 214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV*	PEL*	CAS#
ALIPHATIC PETROLEUM DISTILLATE	COMB.	100 PPM 1.	500MG/M3 1	8008-20-6
AROMATIC PETROLEUM DISTILLATE	COMB.	100 PPM 2.	400MG/M3 2	8030306
OCTYLPHENOXYPOLYETHOXYETHANOL	EYE IRR.	NOT EST.	NOT EST.	9036195
PROPANE	FLAMM.	NOT EST.	NOT EST.	74-98-6
ISOBUTANE	FLAMM.	NOT EST.	NOT EST.	75-28-5
NAPHTHALENE	COMB/TOX	10PPM 1.	50MG/M3 1.	90-20-3

BOMBER AEROSOL

SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT)	N/A	SPEC GRAVITY (H2O=1)	:0.845
VAPOR PRESSURE (MM HG)	N/A	COLOR	AMBER
VAPOR DENSITY (AIR=1)	N/A	ODOR	PETROLEUM DISTILLATE
PH @ 100%	N/A	CLARITY	TRANSPARENT
PERCENT VOLATILE BY VOLUME (%)	100	EVAPORATION RATE (BU AC = 1)	< 0.05
SOLUBILITY IN WATER	EMULSION		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED): 130 F. T.C.C. | FLAMMABLE LIMITS: LEL 1.0, UEL N/A
 EXTINGUISHING MEDIA: "ALCOHOL" X<-FOAM X<-CO2 X<-CHEMICAL X<-WATER SPRAY X<-OTHER
 SPECIAL FIRE FIGHTING PROCEDURES: SPRAY WATER ON AEROSOL CONTAINERS TO COOL THEM AND AVOID RUPTURING AEROSOL CONTAINER.
 UNUSUAL FIRE & EXPLOSION HAZARDS: FLAME EXTENSION: 36" BURNBACK: 2 - 3"
 NFPA HAZARD RATING (0=INSIGNIFICANT; 1=SLIGHT; 2=MODERATE; 3=HIGH; 4=EXTREME): 1<-HEALTH 2<-FLAMMABILITY 0<-REACTIVITY <-SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)
 SEVERE IRRITATION TO EYES, REDNESS, TEARING AND BLURRED VISION CAUSES

BOMBER AEROSOL

(CONTINUED)

SECTION IX - SPECIAL PROTECTION INFORMATION PAGE : 05

RESPIRATORY PROTECTION
TYPICAL USE OF THE PRODUCT DOES NOT REQUIRE THE USE OF A RESPIRATOR. USE
NIOSH APPROVED MASK IF MISTING. IN CASE OF AN EMERGENCY, THE FOLLOWING
RESPIRATOR IS RECOMMENDED:
1000 PPM: CROVP
5000 PPM: GMOV/SAF/SCBAF
10,000 PPM: SAF = PD,PP,CF
ESCAPE: GMOV/SCBA

PROTECTIVE GLOVES
NEOPRENE OR NITRILE RUBBER FOR PROLONGED DR RE-
PEATED SKIN CONTACT.

EYE PROTECTION
CHEMICAL GOGGLES SHOULD BE WORN DEPENDING ON
SEVERITY OF EXPOSURE.

OTHER PROTECTION
APRON SHOULD BE WORN DEPENDING ON SEVERITY OF
EXPOSURE.

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE
120 F. <--MAX 32 F <--MIN INDOOR HEATED REFRIGERATED OUTDOOR

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
KEEP AWAY FROM IGNITION SOURCES. CONTENTS UNDER
PRESSURE. STORE AT MODERATE TEMPERATURES.

OTHER PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN.
READ ENTIRE LABEL BEFORE USE.
NEVER POINT SPRAY HEAD TOWARD FACE.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME C.A.S. NUMBER UPPER % LIMIT
NAPHTHALENE 91-20-3 5

THESE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
1986 AND 40 CFR PART 372.

IF USE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT
FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS
MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND
LABELED FOR MAINTAINING MOTOR VEHICLES.

BOMBER AEROSOL

(CONTINUED)

SECTION XI - REGULATORY INFORMATION

PAGE : 06

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

APPLICABLE REGULATIONS
<--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)

SHIPPING NAME

HAZARD CLASS | ID NUMBER | REPORT QTY

LABELS | LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER | NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

- 1. VENDOR'S MSDS.
2. NIOSH POCKET GUIDE TO CHEMICAL HAZARDS, 1978.
3. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 6TH EDITION,
N. IRVING SAX.
4. NIOSH REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, 1982.
(CONTINUED FROM SECTION VI)
PLICATIONS GREATLY REDUCES TUMOR FORMATION. THESE STUDIES DEMONSTRATE THE
EFFECTIVENESS OF CLEANSING THE SKIN AFTER CONTACT. POTENTIAL RISKS TO HU-
MANS CAN BE MINIMIZED BY OBSERVING GOOD WORK PRACTICE AND PERSONAL HYGIENE
GENERALLY RECOMMENDED FOR PETROLEUM PRODUCTS.

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

The two-page attachment to Part VII summarizes the sources and quantities of effluent and waste solids generated at the facility.



PART VII ATTACHMENT
Sources and Quantities of Effluent and Waste Solids Generated at the Facility
Discharge Plan Application
Weatherford Enterra, Inc.
Farmington, New Mexico
April 1992

Waste Type	General Composition or Source	Volume Per Month	Major Additives
1. Truck Wastes	NA	NA	NA
2. Truck, Tank, and Drum Washing	Steam Cleaning Effluent (from washing of trucks)	6000 to 8000 Gallons	Car Wash Detergent (Classic Pink HpH)
3. Steam Cleaning of Parts, Equipment, and Tanks	Hydrocarbons (from Cleaning of parts and equipment)	9000 to 12,000 Gallons	NA
4. Solvent/Degreaser Use	Safety Kleen (solvent from cleaning of small parts and inspection of pipe)	10 Gallons	NA
	Bomber Aerosol (solvent from cleaning of small parts)	Two 16-Ounce Cans	NA
5. Spend Acids, Caustics, or Completion Fluids	NA	NA	NA
6. Waste Slop Oil	Oil Recycled from Waste Water Treatment System	1/2 Gallon	NA
7. Waste Lubrication and Motor Oils	Motors	15 Gallons	NA
8. Oil Filters	Vehicles	4 Filters	NA
9. Solids and Sludges from Tanks	Sand, Grit and Hydrocarbons in Sumps	55 Gallons	NA

NA - Not Applicable

PART VII ATTACHMENT (Continued)
Sources and Quantities of Effluent and Waste Solids Generated at the Facility
Discharge Plan Application
Weatherford Enterra, Inc.
Farmington, New Mexico
April 1992

Waste Type	General Composition or Source	Volume Per Month	Major Additives
10. Painting Wastes	Water Base Enamel	10 Gallons	None
11. Sewage	NA	NA	NA
12. Other Waste Liquids	NA	NA	NA
13. Other Waste Solids	Empty detergent and soap, paint, lubricant, fuel, fuel supplement and oil containers	5	NA
	Empty aerosol cans of solvent, paint, and miscellaneous materials	5	NA
	Empty Oil Drums	5	NA
NA - Not Applicable			

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

A. Summary Information

For each source listed in Part VII, summary information about on-site collection, storage, and disposal systems is provided in the one-page attachment to this section.

B. Collection and Storage Systems

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

a. Truck Washing and Steam Cleaning of Parts and Equipment

The WEI Wireline Services building contains a water pump/hot water heater system which is used to wash logging tools, wireline trucks and passenger vehicles. Significantly dirtier equipment (e.g., blowout preventers, drill collars, bits, etc.) is steam cleaned in the main shop located in the WEI Fishing Tool Operations building. A Watermaze oil/water separator is installed in the Fishing Tool building. The separator processes and recycles wash water used for steam cleaning operations in the Fishing Tool building. Industrial waste water from the wireline building is routed via 2-inch diameter PVC pipe to the Fishing Tool building. Estimated total water usage for cleaning operations conducted in both buildings is 15,000 to 20,000 gallons per month.

The collection system consists of subgrade concrete sumps located in the Wireline and Fishing Tool buildings. The sumps in the Fishing Tool building were installed in 1992 and include secondary containment and leak detection. The sump in the wireline building was installed when the facility was constructed in 1974. It does not have secondary containment or leak detection. Concrete floors in both buildings slope towards these sumps. The sump in the wireline building is connected to the Fishing Tool sump by the 2-inch diameter, Schedule 40, PVC transfer line. The waste water collected in the sump in the Fishing Tool building is then pumped to the Watermaze Recycling Separator and reused by Fishing Tool personnel for steam cleaning. A schematic diagram of the wastewater collection system, including the sumps, floor drains, and Watermaze Recycling Separator is presented in Figure 3. Specifications for these systems are presented in C.1.a (6) and C.1.a (7) of this section.

b. Solvent/Degreaser Use

Pipe threads are cleaned with Safety-Kleen products prior to steam cleaning. Catch trays are used to contain solvent drips. Pipe, drill collar, and sub inspections also use Safety-Kleen products and catch trays to control the solvents used. Thread cleaning and pipe inspections take place at one of two sets of permanent inspection racks located near the northeast margin of the Fishing Tool building (Figure 2). Sub inspection occurs on the cement apron adjacent to the northwest corner of the Fishing Tool building.



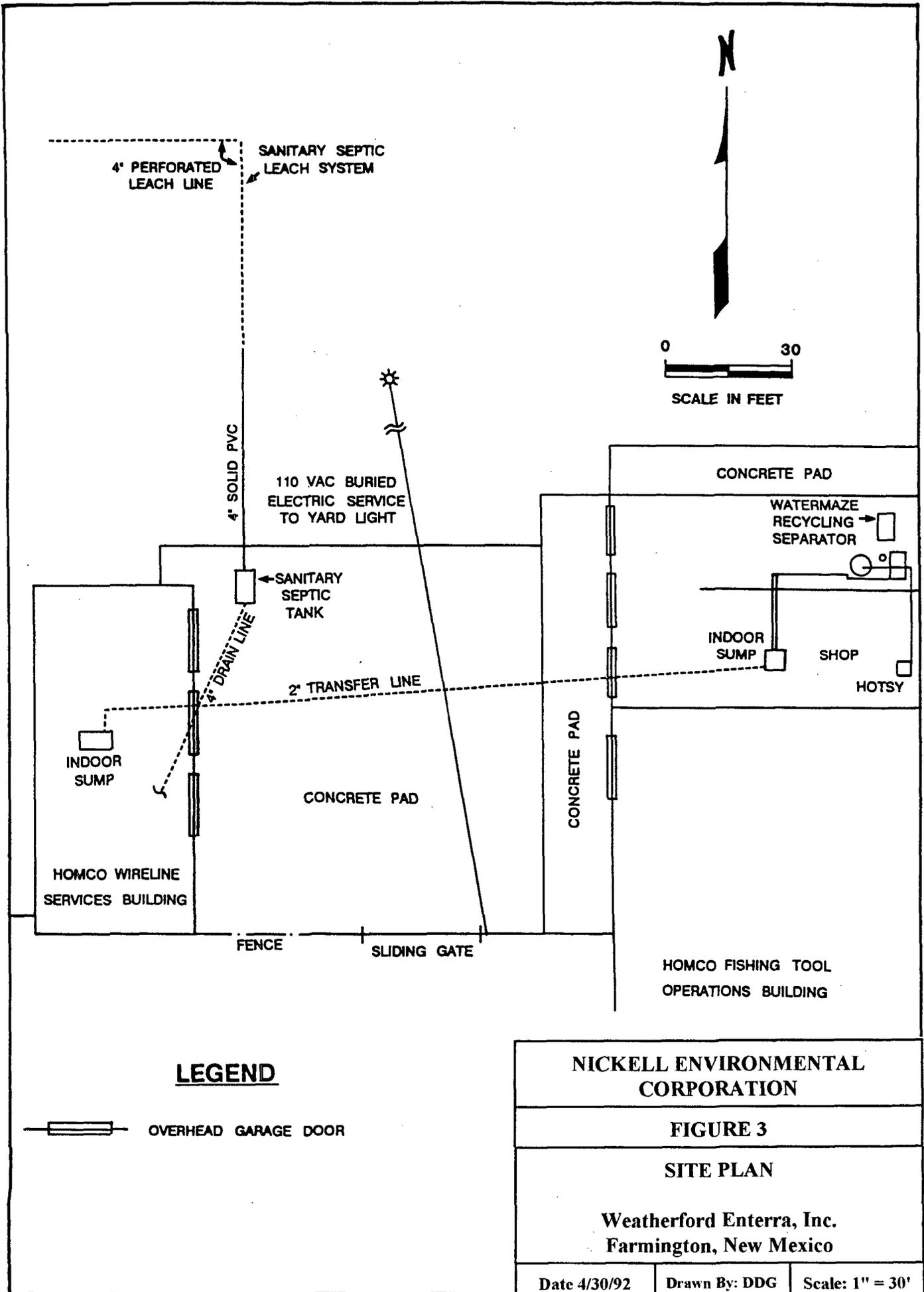
PART VIII ATTACHMENT
Summary Description of Existing Liquid and Solid Waste Collection and Disposal
Discharge Plan Application
Weatherford Enterra, Inc.
Farmington, New Mexico
April 1992

Waste Type	Tank(T)/ Drum(D)	Floor Drain(F)/ Sumps(S)	Pits- Lead(L) or Unlined(U)	On-Site Injection Well	Leach Field	Off-Site Disposal
1. Truck Wastes	NA	NA	NA	NA	NA	NA
2. Truck, Tank, and Drum Washing	NA	F*, S (Concrete Lined)*	NA	NA	NA	YES*
3. Steam Cleaning of Parts, Equipment, and Tanks	NA	F*, S (Concrete Lined)*	NA	NA	NA	YES*
4. Solvent/Degreaser Use	D*	NA	NA	NA	NA	YES*
5. Spent Acids, Caustics, or Completion Fluids	NA	NA	NA	NA	NA	NA
6. Waste Slop Oil	T*	NA	NA	NA	NA	YES*
7. Waste Lubrication and Motor Oils	T*	NA	NA	NA	NA	YES*
8. Oil Filters	Dumpster*	NA	NA	NA	NA	YES*
9. Solids and Sludges from Tanks	NA	S (Concrete Lined)*	NA	NA	NA	YES*
10. Painting Wastes	NA	NA	NA	NA	NA	NA
11. Sewage	NA	NA	NA	NA	YES**	NA
12. Other Waste Liquids	NA	NA	NA	NA	NA	NA
13. Other Waste Solids	Dumpster*	NA	NA	NA	NA	YES*

NA - Not Applicable (this method of disposal is not used for the waste type listed).

* - Details of solid waste collection and disposal and off-site disposal are presented in the text portion of this section.

** - Sewage is not mixed with industrial wastes.



LEGEND



NICKELL ENVIRONMENTAL CORPORATION		
FIGURE 3		
SITE PLAN		
Weatherford Enterra, Inc. Farmington, New Mexico		
Date 4/30/92	Drawn By: DDG	Scale: 1" = 30'

Concrete slabs have been installed to contain any overspray, spills, or drips not collected by catch basins used in the cleaning and inspection process. These slabs are sloped at the margins to prevent precipitation which contacts residual solvent drips from leaving the facility. One concrete slab is located along the outside margin of each pipe rack (the permanent racks depicted on Figure 2). Each slab is 10 foot wide and 60 foot long.

Small parts are washed in Safety-Kleen sinks equipped with catch trays. Parts washing takes place within the main shop of the WEI Fishing Tool Operations building (Figure 2).

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

All waste oils are stored in a 1000-gallon, aboveground tank located in the northern margin of the facility (Figure 2). The tank is not pressurized; waste oils are transferred directly to it. The tank is not bermed.

d. Oil Filters

Oil filters are placed in an on-site dumpster for collection and final disposal. The location of the dumpster is depicted in Figure 2.

e. Solids and Sludges

Solids and sludges are generated by truck washing and steam cleaning of parts and equipment. These solids and sludges collect in the sumps located in the WEI Fishing Tool Operations and Wireline Services buildings. Specifications for the sumps are presented in B.1.a and C.1.a (6) of this section.

f. Painting Wastes

Water-base enamel is used within the shop of the WEI Fishing Tool Operations building.

g. Other Waste Solids

Empty detergent, soap, paint, lubricant, fuel, fuel supplement and oil containers and empty aerosol cans of solvent, paint and miscellaneous materials are placed in an on-site dumpster (Figure 2) for collection and final disposal. Empty drums that contained lubricating oils are collected by vendors who sold the products.



2. Tankage and Chemical Storage Areas

a. Storage Areas Within Buildings

Detergents, soaps, solvents, degreasers, paints, lubricants, oxidizers, fuels, fuel supplements, oils, and miscellaneous materials specified in Section VI and VII are stored inside the shop or paint room in the Fishing Tool Operations building or in the Wireline Services building. These buildings are floored with concrete. Spills or leaks which flow across the concrete floors and into the concrete sumps would be processed by the wastewater treatment circuit described in B.1.a of this section.

b. Storage Areas Adjacent to Buildings

Regular gasoline (four 5-gallon cans) is stored adjacent to the northwest side of the WEI Fishing Tool Operations building on a cement apron. The apron is sloped to promote drainage away from the building and onto the concrete pad that lies between the Fishing Tool Operations and Wireline Services buildings (Figure 2). No other fluids are stored adjacent to the buildings.

c. Waste Oil Storage Area - None

All waste oils are stored in a 1000-gallon, aboveground tank located in the northern margin of the facility (Figure 2). The tank is not pressurized; waste oils are transferred directly to it.

3. Facilities Over 25 Years of Age

The facility was constructed and began operation in 1974. The facility is 18 years of age and is not subject to the requirements of this subsection.

C. Existing Effluent and Solids Disposal

1. On-Site Facilities

a. Description of Each Facility

(1) Surface Impoundments

No surface impoundments are in use at the facility. The facility is not subject to the requirements of this subsection.

(2) Leach Fields

All industrial leach fields at the site have been clean-closed via excavation and off-site disposal. This work was completed in



November 1991. No industrial leach fields are in use at the facility and the facility is not subject to the requirements of this subsection.

(3) Injection Wells

No injection wells are in use at the facility. The facility is not subject to the requirements of this subsection.

(4) Drying Beds or Other Pits

No drying beds or other pits are in use at the facility. The facility is not subject to the requirements of this subsection.

(5) Solids Disposal

No on-site disposal of solids occurs at the facility. The facility is not subject to the requirements of this subsection.

(6) Floor Drains (Sumps)

Technical specifications and a schematic diagram for the indoor sumps within the WEI Fishing Tool Operations building are enclosed as Figure 4.

(7) Waste Water Treatment

Waste water is collected in the sumps described in the preceding section and pumped to the Watermaze Recycling Separator. Treated water is reused for steam cleaning. No waste water is discharged to grade. Technical specifications and a schematic diagram for the Watermaze separator equipment are enclosed as Figure 5.

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

No leach fields, pits, or surface impoundments are in use at the facility. The facility is not subject to the requirements of this subsection.

3. Off-Site Disposal

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

Waste water generated from truck washing and steam cleaning of parts and equipment is recycled on site and reused. Waste water is removed from the treatment system on a regular basis (approximately 3500 gallons every two months), disposed and replaced with fresh water. The waste water is



transported by truck to a disposal facility approved by the New Mexico Oil Conservation Division (NMOCD). At this time, the City of Farmington Waste Water Treatment Plant is utilized for disposal. The City of Farmington Waste Water Treatment Plant is located at 1395 S. Lake Street, Farmington, New Mexico.

b. Solvents and Degreasers

Solvents are used to clean pipe threads prior to steam cleaning. Thread cleaning takes place at one of the two sets of permanent inspection racks located near the east margin of the WEI Fishing Tool Operations building (Figure 2). Solvents that are used are collected in approved receptacles and stored in the shop of the WEI Fishing Tool Operations building. Spent solvent is removed from the facility by truck, replaced with fresh solvent, and recycled by the Safety Kleen Corporation. This process occurs approximately every 8 weeks. The Safety Kleen Corporation recycling facility is located at 1722 Cooper Creek Road, Denton, Texas 75201.

Solvents are used in the pipe, drill collar, and sub inspection processes. These processes are not conducted on a routine basis. When required, pipe and drill collar inspections are conducted by vendors at the pipe inspection racks (the permanent racks depicted on Figure 2). Sub inspection is conducted on the cement apron adjacent to the northwest corner of the Fishing Tool building. Frontier Inspection Service (6911 Drinen Lane, Farmington, New Mexico) is the pipe inspection vendor. Tommy's Drill Collar Inspection Service (1308 Camino Sol, Farmington, New Mexico) is the vendor who inspects drill collars and subs. Solvents used in pipe inspections are collected in approved receptacles by the vendor and removed from the WEI facility at the completion of the process. Solvents used in drill collar and sub inspections are collected in approved receptacles by the vendor and relinquished to WEI for disposal.

Solvents used in parts washers and drill collar and sub inspections are collected and stored in approved receptacles in the shop of the WEI Fishing Tool Operations building. Spent solvent is removed from the facility by truck, replaced with fresh solvent and recycled by the Safety Kleen Corporation. This process occurs approximately every 8 weeks. The Safety Kleen Corporation recycling facility is located at 1722 Cooper Creek Road, Denton, Texas 76201.

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

Waste oils are stored in an aboveground tank described in B.1.c and B.2.c of this section. These oils are trucked to and recycled by Mesa Oil (4701 Broadway SE, Albuquerque, New Mexico 87105) or Approved Oil Service (4531 Broadway SE, Albuquerque, New Mexico 87105) every 4 to 6 months.



d. Oil Filters

Oil filters are placed in an on-site dumpster (Figure 2) and collected by truck for final disposal. Waste Management of Four Corners (101 Spruce St., Farmington, New Mexico 87401) is the hauling company which transports the waste. The waste is disposed at an NMOCD-approved disposal facility. At present, the San Juan County Landfill is utilized for this purpose. The landfill is located at County Road 3140, #70, Aztec, New Mexico 87401 (on Crouch Mesa between Farmington and Aztec). A copy of the Waste Management of Four Corners and San Juan County Landfill approval for disposal of these shipped wastes is attached. Waste Management of Four Corners annually verifies the composition of the waste stream.

e. Solids and Sludges

Solids and sludges are removed from sumps by vacuum truck and transported to the Envirotech, Inc. landfill for disposal. The Envirotech, Inc. landfill is a NMOCD-approved facility. The Envirotech, Inc. office is located at 5796 U.S. Highway 64, Farmington, New Mexico 87401. The landfill facility is located approximately 11 miles south of Bloomfield, New Mexico. A copy of the Envirotech, Inc. approval for disposal of these shipped wastes is attached.

f. Other Waste Solids

Empty detergent, soap, paint, lubricant, fuel, fuel supplement and oil containers and empty aerosol cans of solvent, paint and miscellaneous materials are placed in an on-site dumpster and collected by truck for final disposal. Waste Management of Four Corners (101 Spruce St., Farmington, New Mexico 87401) is the hauling company which transports the waste. The waste is disposed at the San Juan County Landfill located at County Road 3140, #70, Aztec, New Mexico 87401 (on Crouch Mesa between Farmington and Aztec). A copy of the Waste Management of Four Corners and San Juan County Landfill approval for disposal of these shipped wastes is attached. Waste Management of Four Corners annually verifies the composition of the waste stream.

Empty oil drums are reclaimed by the vendors who sold the products to the WEI facility.



ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

March 21, 1995

Mr. Roger Covel
Location Supervisor
Weatherford-HomeCo, Inc.
5432 U. S. Highway 64
Farmington, New Mexico 87499

Dear Mr. Covel,

Enclosed are the analytical results for the sample of wash bay sump sludge collected from the Farmington, New Mexico location on 02/15/95. One 5 point composite sample was collected by Envirotech personnel and delivered to the Envirotech laboratory for Hazardous Waste Characterization analysis. The sample was documented on Envirotech Chain of Custody No. 4111, and assigned Laboratory No. 8220 for tracking purposes.

Results of the analysis indicate that this material is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C. This material is therefore acceptable for disposal at the Envirotech Soil Remediation Facility (ESRF), Landfarm #2 located at Hilltop, New Mexico. A Certificate of Waste Status is enclosed and must be completed and received by Envirotech prior to transportation of the wash bay sludge to the ESRF. A fax copy is acceptable ((505) 632-1865). Documentation will then be submitted to the New Mexico Oil Conservation Division (NMOCD) for approval. Receipt of NMOCD approval can be expected in approximately two weeks, after which the material can be transported to the ESRF.

Results of this TCLP analysis are valid for one year from the date the sample was collected, and will expire on February 15, 1996.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It has been our pleasure doing business with you, and we hope you will consider Envirotech, Inc. for any of your future environmental contracting needs.

Respectively submitted,
Envirotech, Inc.


Stacy W. Sandler
Environmental Scientist

enc.
SWS/sws

91327-01/TCLP.lb1

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

CERTIFICATE OF WASTE STATUS OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: _____

Source: _____

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production 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, Subparts C and D, 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(b)."

I, the undersigned, as the agent for _____
concur with the status of the waste from the subject site.

Name _____

Title/Agency _____

Address _____

Signature _____

Date _____

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

April 15, 1992

Mr. Roger Covell
Homco International
P. O. Box 2344
Farmington, NM 87499

Re: Disposal of Homco Wash Bay Solids

Dear Mr. Covell:

As per our recent telephone conversation, Homco International requests definition as to the procedure of acceptance of wash bay solids.

The New Mexico Oil Conservation Division (NMOCD) requires a Toxicity Characteristic Leaching Procedure (TCLP) analysis be performed annually on waste streams of all NMOCD regulated facilities. If the analysis characterizes the waste as non-hazardous, Envirotech can dispose of and treat the waste at our Hilltop, New Mexico, Soil Remediation Facility.

Analysis of your waste stream was performed November 1, 1991, by Byes & Associates, and subsequently approved for acceptance at the remediation facility by Mr. Roger Anderson of NMOCD. This analysis and approval for acceptance is conditional on Homco continuing their operation substantially as in the past. Any major change in operating conditions that substantially alter the waste stream composition, will require a new TCLP analysis for characterization of the waste.

Envirotech is authorized to take only solids for disposal remediation. Any entrained free liquid has to be "stabilized" prior to acceptance. Stabilization is usually accomplished by blending dry granular soils with the waste stream to solidify any free liquids.

Stabilization can be performed either at the generators yard or at a holding area outside Envirotech's facility. Care needs to be taken by the waste transporter so that no materials are spilled or leaked on the roadways during transportation.

Page 2

We appreciate working with you on this matter. Please call if we can be of more help.

Sincerely,

Morris D. Young

Morris D Young
President

MDY/vlo
102V.DOC

cc; Mr. Denny Foust - Environmental Coordinator, NMOCD
Mr. John Kaszuba - Buyes & Associates
Mr. Verl Farnsworth - Envirotech Inc.

Waste Management of Four Corners

101 Spruce
Farmington, NM 87401
505/327-6284

SERVICE AGREEMENT
NON-HAZARDOUS WASTE

CUSTOMER NUMBER **6000746**

CUSTOMER'S BILLING NAME **Homeo International**
 CUSTOMER'S BILLING ADDRESS **P.O. Box 2344**
 CITY, STATE, ZIP CODE **Farmington, NM 87499**
 CUSTOMER CONTACTS _____ TELEPHONE NO.
 SERVICE LOCATION _____
 SERVICE ADDRESS **Bloomfield Hwy** TELEPHONE NO. _____
 CITY, STATE, ZIP CODE _____
 BANK REFERENCE _____ CONTACT _____ TELEPHONE NO. _____

NEW ACCOUNT \$ **90.00**
 HOW OBTAINED _____

CHANGE \$ _____
 TYPE OF CHANGE _____

CANCEL \$ _____
 REASON _____

SHORT TERM \$ _____

CUSTOMER P.O. _____

TELEPHONE NO. _____

THIS IS A LEGALLY BINDING CONTRACT, AND CONTRACTOR AGREES TO PROVIDE AND CUSTOMER AGREES TO ACCEPT THE FOLLOWING SERVICES AND EQUIPMENT AT THE CHARGES AND FREQUENCY OF COLLECTION INDICATED BELOW SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE.

CONTAINER SPECIFICATIONS

QUANTITY	CAPACITY (CU. YDS.)	OPEN	CLOSED	FRONT	REAR	OTHER	CASTERS
1	6			X			

FREQUENCY OF SERVICE

ON CALL

PICK UP(S) PER WEEK

EFFECTIVE SERVICE DATE

3/28/91

EFFECTIVE DISC. DATE

CUSTOMER OWNED

WMI OWNED

EQUIP. PROMISE DATE

P.U. DEL.

DATE DELIVERED

CONTRACT REVIEW DATE

SCHEDULE OF CHARGES

SERVICE CHARGE PER MONTH \$ **90.00**

ADDITIONAL CHARGE PER YARD OVER CONT. SPEC. \$ _____

CONTAINER USE CHARGE \$ _____

COMPACTOR USE CHARGE \$ _____

SERVICE CHARGE PER

YARD \$ _____

LOAD SIZE \$ _____

OR SIZE \$ _____

LIFT SIZE \$ _____

SIZE \$ _____

*INDICATE COMPACTOR LOAD WITH A "C"

PREVIOUS SVC \$ _____

PRESENT SVC \$ _____

DIVISION

CONTAINER SHOP DEL. P.U.

MO-SUN

	MON	TUE	WED	THUR	FRI	SAT	SUN	TOT
NEW				X				
OLD								
ROUTE				6				

MO-SUN

(OFFICE USE ONLY)

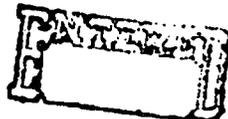
640 TICKET PLATE

UPDATE STREET LISTING CUST. FILE

SALE SUMMARY COMPACTOR FILE

TICKET TAB ROUTE CARD

SPECIAL INSTRUCTIONS



MISCELLANEOUS DATA FOR - "640" - LINE 50

THE TERMS AND CONDITIONS ON REVERSE SIDE ARE PART OF THE AGREEMENT.

CUSTOMER

J. J. McCall

CONTRACTOR

Carmy M. DeLoach

227-534

"Special Waste" means Type A or Type B Special wastes as defined below.

WASTE PROFILE CODE

"Type A Special Waste" means any waste, from a commercial or industrial activity meeting any of the following descriptions.

- ___ a. A containerized waste (e.g., a drum, portable tank, lugger box, roll-off box, pail, bulk tanker, etc.) listed in b.-g. below.
- ___ b. A waste containing free liquids.
- ___ c. A sludge waste.
- ___ d. A waste from an industrial process.
- ___ e. A waste from a pollution control process.
- ___ f. Residue and debris from the cleanup of a spill of a chemical substance or commercial product or a waste listed in a.-e. or g.
- ___ g. Contaminated residuals, or articles from the cleanup of a facility generating, storing, treating, recycling, or disposing of wastes listed in a.-f.

Incidental Amounts of Special Waste

The Contractor recognizes that many customers will produce some "Type B Special Waste," as defined below. Incidental quantities of "Type B Special Waste," do not require a Generator's Type B Special Waste Profile Sheet (Form WMNA-0089B) to be signed by the customer. However, the customer must identify the type and amount of Type B Special Wastes which will be provided to the Contractor in incidental amounts by completing the box in the lower right corner.

"Type B Special Waste" means any waste from a commercial or industrial activity meeting the descriptions which follow:

- ___ a. Friable asbestos waste from building demolition or cleaning; wall board, wall spray coverings, pipe insulation, etc. Nonfriable asbestos is not a special waste unless it has been processed, handled or used in such a way that asbestos fibers may be freely released. Asbestos-bearing industrial process waste is a "Type A Special Waste."
- ___ b. Commercial products or chemicals which are off-specification, outdated, unused or banned. Out-dated or off-specification, uncontaminated food or beverage products in original consumer containers are not included in this category, however, containers which once held commercial products or chemicals are included unless the container is empty. A container is empty when:
All wastes have been removed that can be removed using the practices commonly employed to remove materials from the type of container, e.g., pouring, pumping or aspirating, and an end has been removed (for containers in excess of 25 gallons), and no more than 1 inch (2.54 centimeters) of residue remains on the bottom of the container or inner liner, or no more than 3% by weight of the total capacity of the container remains in the container (containers ≤ 110 gallons), or no more than 0.3% by weight of the total capacity of the container remains in the container (containers > 110 gallons.) Containers which once held ACUTELY HAZARDOUS WASTES must be triple rinsed with an appropriate solvent or cleaned by an equivalent method. Containers which once held substances regulated under the Federal Insecticide, Fungicide, and Rodenticide Act must be empty according to label instructions or triple rinsed.
- ___ c. Untreated bio-medical waste - Any waste capable of inducing infection due to contamination with infectious agents from a bio-medical source including but not limited to a medical practitioner, hospital, medical clinic, nursing home, university medical laboratory, mortuary, taxidermist, veterinarian, veterinary hospital or animal testing laboratory. Sharps from these sources must be rendered harmless or placed in needle puncture proof containers. Residue from incineration of infectious wastes is a "Type A Special Waste."
- ___ d. Treated bio-medical wastes - Any wastes from a bio-medical source including but not limited to a hospital, medical clinic, nursing home, medical practitioner, mortuary, taxidermist, veterinarian hospital, animal testing laboratory, or university medical laboratory which has been autoclaved or otherwise heat treated or sterilized so that it is no longer capable of inducing infection. Any sharps from these sources must be rendered harmless or placed in needle puncture-proof containers.
- ___ e. Liquids and sludges from septic tanks, food service grease traps, or washwater and wastewaters from commercial laundries, laundromats and car washes unless these wastes are managed at commercial or public treatment works.
- ___ f. Chemical-containing equipment removed from service. Examples: filters, cathode ray tubes, lab equipment, acetylene tanks, fluorescent light tubes, etc.
- ___ g. Waste produced from the demolition or dismantling of industrial process equipment or facilities contaminated with chemicals from the industrial process. Chemicals or wastes removed or drained from such equipment or facility are "Type A Special Wastes."

CUSTOMER ACKNOWLEDGES THAT HE HAS READ THE FOREGOING DEFINITION AND HAS IDENTIFIED THE TYPES OF SPECIAL WASTES GENERATED, IF ANY, BY CHECKING THE APPLICABLE CATEGORIES ABOVE.

CUSTOMER
 AUTHORIZED SIGNATURE *Robert J. Madala*
 DATE *4/16/91*

LIST TYPE B WASTE CATEGORY AND AMOUNTS: <i>Empty AIR DRIED PAINT CANIS</i>
<i>DRAINED OIL FILTERS 2-3 A MONTH</i>
<i>AIR DRIED PAINT FILTERS</i>
General Manager of WMNA Division certifies that the above amounts of "Type B Special Wastes" are incidental to the load. Signature: <i>[Signature]</i>

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

A. Modifications to Existing Collection and Storage Systems

1. Waste Oil Storage Area

The existing waste oil storage area does not meet the criteria of Section VIII B. A containment area bermed to contain a volume one-third more than the 1000-gallon waste oil tank is required.

To satisfy this requirement, a concrete pad 18-foot by 17-foot in an area with 1.5-foot berms will be installed. It will be constructed of 3500 PSI concrete with #4 continuous rebar on the edges and 6/6-10/10 remesh in the slab. The bermed pad will have a containment volume of approximately 2289 gallons. The pad is scheduled to be completed by June 30, 1992.

A 500-gallon diesel fuel tank will be installed in the containment area after it is constructed. This tank will be used to store diesel for forklifts and other equipment. Diesel will be dispensed at the tank.

The San Juan County Fire Marshall Office approved plans for installation of the tanks and containment system.

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

No leach fields, pits or surface impoundments are in use at the facility. The facility is not subject to the requirements of this subsection.



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

A. Routine Inspection Procedures for Disposal Units with Leak Detection

No disposal units that require leak detection are operated at the facility. The facility is not subject to the requirements of this subsection.

B. Ground-Water Monitoring for Leak Detection

No disposal units that require ground-monitoring as a leak detection method are operated at the facility. The facility is not subject to the requirements of this subsection.

C. Containment of Precipitation and Runoff

Truck washing, steam cleaning of parts and equipment, small parts washing with solvents, and painting take place inside the WEI Wireline Services or Fishing Tool Operations buildings. Precipitation and runoff water do not come into contact with these process areas.

Solvents used in thread cleaning and equipment inspections are collected in approved receptacles. These receptacles are stored in the shop or removed by the vendors who perform the inspections. The concrete slabs at the inspection racks (Section IX.A.2) will prevent solvents from contacting the ground surface. These slabs are sloped at the margins to prevent precipitation which contacts residual solvent drips from leaving the facility.



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

A. Containment, Cleanup, and Reporting Procedures

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

WEI personnel are present at the facility during business hours when operations are conducted. In addition, a WEI employee resides at the facility and is able to respond to emergencies after business hours and on weekends. Good, sound judgement will be used in containment, cleanup, and reporting of any fires, leaks, and spills that may occur.

Leaks, spills, and drips will be handled as follows:

- Small spills on pavement will be absorbed with sorbent pads. The pads will be placed into drums for off-site disposal by an approved disposal contractor.
- Small spills on soil will be absorbed with soil and shoveled into drums for off-site disposal by an approved disposal contractor.
- Large spills will be contained with temporary berms. Free liquids will be pumped into drums. Any contaminated soil will be shoveled into drums for off-site disposal by an approved disposal contractor.

Reporting of leaks, spills, and drips will be handled according to WEI corporate environmental policy. This policy is presented below.

REPORTING OF EMERGENCY INCIDENTS

WEI locations generally maintain small quantities of items which can create emergency incidents, such as caustics, explosives, compressed gases, diesel, gasoline, solvents, etc.

1. Notice of Discharge of Oil or a Hazardous Substance

EPA regulations require notification to the National Response Center in the event of a spill of oil or hazardous substances into navigable waters.

a) Oil Spill Definition

- 1) Violates applicable water standards.
- 2) Causes a sheen on the surface of the waters.



b) Hazardous Spill Definition

Spill amount is greater or equal to the "Reportable Quantity" established for that substance.

2. Transportation Related Incidents

Telephone notice of transportation related incidents involving hazardous materials must be made to the National Response Center (Telephone 800-424-8802) if any of the following occurs:

- a) Death of any person.
- b) Injury requiring hospitalization.
- c) Estimated damage of \$50,000 or more to the carrier and property.
- d) A critical situation such as continuing danger to life.
- e) A hazardous substance is discharged (reportable quantity) to navigable waters.

3. Other Reporting

Verbal and written notification of leaks or spills will be made to the NMOCD in accordance with NMOCD Rule 116. Good, sound judgement will be used in the reporting of any incidents that may occur. NMOCD Rule 116 and the applicable notification form are reproduced in this section for reference.

4. Report Handling

The variety and complexity of reporting requirements requires emergency incidents be immediately reported (day/night) to the WEI Director-Environmental and Safety. The Director will determine and handle reporting.

B. Leak Detection and Integrity of Tanks and Piping

Sumps in the WEI Fishing Tool Operations building are equipped with leak detection and secondary containment. Leak detection systems for these sumps will be inspected monthly. These inspections will be documented and the documents maintained in the files of the WEI facility. Any sumps which leak will be repaired or replaced. Any new or replacement sumps that are installed will require leak detection.

The below-grade sump in the WEI Wireline Services building is a pre-existing unit less than 25 years of age. This sump does not require leak detection. To ensure its integrity, the sump will be cleaned at least once every year. At this time, it will be inspected for cracks and leaks. These inspections will be documented and the documents maintained in the files of the WEI facility. The sump will be replaced if it displays cracks and leaks. These inspections will be documented and the documents maintained in the files of the WEI facility. The sump will be replaced if it displays cracks and leaks. The replacement sump will require leak detection.



The facility was constructed and began operation in 1974. The facility is 18 years of age and is not presently required to demonstrate the integrity of buried piping. Testing of below-grade piping is required after the facility reaches 25 years of age. The piping will be tested annually beginning in 1999. Testing of all below-grade piping that conveys industrial waste water will consist of pressure testing to 4 PSI. The results of the pressure tests will be maintained in the files of the WEI facility. Any buried piping that fails to pass pressure testing will be replaced.

The aboveground tanks (waste oil and diesel) will be inspected on a regular basis by facility personnel to detect leaks and ensure the integrity of the tanks.

C. Injection Well Contingency Procedures

No injection wells are in use at the facility. The facility is not subject to the requirements of this subsection.



RULE 116. NOTIFICATION OF FIRE, BREAKS, LEAKS, SPILLS, AND BLOWOUTS

The Division shall be notified of any fire, break, leak, spill, or blowout occurring at any injection or disposal facility or at any oil or gas drilling, producing, transporting, or processing facility in the State of New Mexico by the person operating or controlling such facility.

"Facility," for the purpose of this rule, shall include any oil or gas well, any injection or disposal well, and any drilling or workover well; any pipe line through which crude oil, condensate, casinghead or natural gas, or injection or disposal fluid (gaseous or liquid) is gathered, piped, or transported (including field flow-lines and lead-lines but not including natural gas distribution systems); any receiving tank, holding tank, or storage tank, or receiving and storing receptacle into which crude oil, condensate, injection or disposal fluid, or casinghead or natural gas is produced, received, or stored; any injection or disposal pumping or compression station including related equipment; any processing or refining plant in which crude oil, condensate, or casinghead or natural gas is processed or refined; and any tank or drilling pit or slush pit associated with oil or gas well or injection or disposal well drilling operations or any tank, storage pit, or pond associated with oil or gas production or processing operations or with injection or disposal operations and containing hydrocarbons or hydrocarbon waste or residue, salt water, strong caustics or strong acids, or other deleterious chemicals or harmful contaminants.

Notification of such fire, break, leak, spill, or blowout shall be in accordance with the provisions set forth below:

1. Well Blowouts. Notification of well blowouts and/or fires shall be "immediate notification" described below. ("Well blowout" is defined as being loss of control over and subsequent eruption of any drilling or workover well, or the rupture of the casing, casinghead, or wellhead or any oil or gas well or injection or disposal well, whether active or inactive, accompanied by the sudden emission of fluids, gaseous or liquid, from the well.)
2. "Major" Breaks, Spills, or Leaks. Notification of breaks, spills, or leaks of 25 or more barrels of crude oil or condensate, or 100 barrel or more of salt water, none of which reaches a watercourse or enters a stream or lake; breaks, spills, or leaks in which one or more barrels of crude oil or condensate or 25 barrels or more of salt water does reach a watercourse or enters a stream or lake; and breaks, spills, or leaks of hydrocarbons or hydrocarbon waste or residue, salt water, strong caustics or strong acids, gases, or other deleterious chemicals or harmful contaminants of any magnitude which may with reasonable probability endanger human health or result in substantial damage to property, shall be "immediate notification" described below.
3. "Minor" Breaks, Spills, or Leaks. Notification of breaks, spills, or leaks of 5 barrels or more but less than 25 barrels of crude oil or condensate, or 25 barrels or more but less than 100 barrels of salt water, none of which reaches a watercourse or enters a stream or lake, shall be "subsequent notification" described below.
4. Gas Leaks and Gas Line Breaks. Notification of gas leaks from any source or of gas pipe line breaks in which natural or casinghead gas of any quantity has escaped or is escaping which may with reasonable probability endanger human health or result in substantial damage to property shall be "immediate notification" described below. Notification of gas pipe line breaks or leaks in which the loss is estimated to be 1000 or more MCF of natural or casinghead gas but in which there is no danger to human health nor of substantial damage to property shall be "subsequent notification" described below.
5. Tank Fires. Notification of fires in tanks or other receptacles caused by lightning or any other cause, if the loss is, or it appears that the loss will be, 25 or more barrels of crude oil or condensate, or fires which may with reasonable probability endanger human health or result in

substantial damage to property, shall be "immediate notification" as described below. If the loss is, or it appears that the loss will be at least 5 barrels but less than 25 barrels, notification shall be "subsequent notification" described below.

6. Drilling Pits, Slush Pits, and Storage Pits and Ponds. Notification of breaks and spills from any drilling pit, slush pit, or storage pit or pond in which any hydrocarbon or hydrocarbon waste or residue, strong caustic or strong acid, or other deleterious chemical or harmful contaminant endangers human health or does substantial surface damage, or reaches a watercourse or enters a stream or lake in such quantity as may with reasonable probability endanger human health or result in substantial damage to such watercourse, stream, or lake, or the contents thereof, shall be "immediate notification" as described below. Notification of breaks or spills of such magnitude as to not endanger human health, cause substantial surface damage, or result in substantial damage to any watercourse, stream, or lake, or the contents thereof, shall be "subsequent notification" described below, provided however, no notification shall be required where there is no threat of any damage resulting from the break or spill.

IMMEDIATE NOTIFICATION. "Immediate Notification" shall be as soon as possible after discovery and shall be either in person or by telephone to the district office of the Division district in which the incident occurs, or if the incident occurs after normal business hours, to the District Supervisor, the Oil and Gas Inspector, or the Deputy Oil and Gas Inspector. A complete written report ("Subsequent Notification") of the incident shall also be submitted in duplicate to the appropriate district office of the Division within ten days after discovery of the incident.

SUBSEQUENT NOTIFICATION. "Subsequent Notification" shall be a complete written report of the incident and shall be submitted in duplicate to the district office of the Division district in which the incident occurred within ten days after discovery of the incident.

CONTENT OF NOTIFICATION. All reports of fires, breaks, leaks, spills, or blowouts, whether verbal or written, shall identify the location of the incident by quarter-quarter, section, township, and range, and by distance and direction from the nearest town or prominent landmark so that the exact site of the incident can be readily located on the ground. The report shall specify the nature and quantity of the loss and also the general conditions prevailing in the area, including precipitation, temperature, and soil conditions. The report shall also detail the measures that have been taken and are being taken to remedy the situation reported.

WATERCOURSE. For the purpose of this rule, is defined as any lake-bed or gully, draw, stream bed, wash, arroyo, or natural or man-made channel through which water flows or has flowed.

State of New Mexico
Energy and Minerals Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

Name of Operator					Address					
Report of	Fire	Break	Spill	Leak	Blowout	Other*				
Type of Facility	Drig Well	Prod Well	Tank Btty	Pipe Line	Gaso Pint	Oil Rfy	Other*			
Name of Facility										
Location of Facility (Quarter/Quarter Section or Footage Description)					Sec.	Twp.	Rge.	County		
Distance and Direction From Nearest Town or Prominent Landmark										
Date and Hour of Occurrence					Date and Hour of Discovery					
Was Immediate Notice Given?	Yes	No	Not Required		If Yes, To Whom					
By Whom					Date and Hour					
Type of Fluid Lost					Quantity of Loss	_____ BO _____ BW	Volume Recovered	_____ BO _____ BW		
Did Any Fluids Reach a Watercourse?		Yes	No	Quantity						
If Yes, Describe Fully**										
Describe Cause of Problem and Remedial Action Taken**										
Describe Area Affected and Cleanup Action Taken**										
Description of Area	Farming	Grazing	Urban	Other*						
Surface Conditions	Sandy	Sandy Loam	Clay	Rocky	Wet	Dry	Snow			
Describe General Conditions Prevailing (Temperature, Precipitation, Etc.)**										
I Hereby Certify That the Information Above Is True and Complete to the Best of My Knowledge and Belief										
Signed			Title			Date				

*Specify

**Attach Additional Sheets if Necessary

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

A. Site Characteristics

1. Surface Water and Water Wells

As shown on Figure 6, the nearest major surface waterways to the facility are the Animas River (approximately 1.5 miles to the north), the San Juan River (approximately 0.75 miles to the south), a private irrigation lake (name unknown, located approximately 0.25 miles to the southwest), and a private irrigation ditch (Echo Ditch, approximately 0.125 miles to the south). Additionally, three arroyos appear to drain the bluffs located north of the facility. These arroyos converge approximately 0.25 miles west of the facility before flowing into the private irrigation lake. Surface water in the area of the facility generally flows south-southwest towards the San Juan River, the primary river basin in northern San Juan County.

Table 1 lists the water wells which are known to be in the area of the WEI facility. Table 1 also presents the following information: legal descriptions, well name, total depth, water use, depth to water, date drilled, and specific conductance. This table was prepared from available records of the U.S. Geological Survey (USGS), the New Mexico State Engineer's Office, and the New Mexico Bureau of Mines and Mineral Resources (NMBMMR). Information was also obtained in a personal communication with Mr. Frank Kaphart, San Juan County Building Official.

There appear to be nine known water wells within Sections 13 and 24 of Township 29 North, Range 13 West and Sections 18 and 19 of Township 29 North, Range 12 West (Table 1 and Figure 6). These four sections include or border the WEI facility. The water well that is potentially closest to the facility is Well No. 2 (Table 1), located as close as 0.125 miles to the southeast of the facility (Figure 6).

2. Ground Water

Ground water in the area of the facility generally flows south-southwest towards the San Juan River, the primary river basin in northern San Juan County. Groundwater production in the San Juan River Basin is not substantial and the water is likely to be of poor quality. The principal use of ground water in 1980 in the county was about 1700 acre-feet for rural use and 6500 acre-feet for industrial use. According to the State Engineer's Office, these facts account for the minor number of known water wells in the vicinity of the WEI facility.

Personnel from Walters Drilling Company, located immediately north of the WEI facility (Figure 2 in Section V), believe that ground water may be as shallow as 30 to 40 foot below grade. This assertion is based on field observations made during the drilling of a test hole on Walters property. No documentation is available to confirm this statement. Depth to water in the two wells closest to the WEI facility Well Nos. 2 and 3, see Table 1) reportedly ranges from 32 to 45 foot.



R 13 W

R 12 W



Reference: Farmington South Quadrangle
 New Mexico - San Juan, County.
 7.5 Minute Series (Topographic).
 SCALE: 1: 24,000

NICKELL ENVIRONMENTAL		
FIGURE 6		
LOCATION OF KNOWN WATER WELLS IN VICINITY OF WEATHERFORD FACILITY Weatherford Enterra, Inc. Farmington, New Mexico		
Date 4/30/92		

Table 1 - Summary Information for Water Wells near Weatherford Enterra Facility

Source		Number or name	Depth (ft.)	Use	Altitude (ft.)	Depth to water (ft.)	Date	Producing interval (ft.)	Specific Conductance	Remarks
1	NMBMMR	T29 R12 Sec 18		PanAmPet			pre-1959	1435-1448		TDS=29800 mg/l-1959
2	NMBMMR	T29 R12 NW 1/4 of NE 1/4 of SW 1/4 of Section 19	62	Thomas F. Kirby	5360	45.4	1968		2100	
3	NMBMMR	T29 R12 SW 1/4 of NE 1/4 of SW 1/4 of Section 19	44	Thomas F. Kirby	5330	32.1	1968		900	
4	USGS	T29 R12 SE1/4 of SE 1/4 of SW 1/4 of Section 19	28	Robert T. Horvath SJ-0567			1978-83			
5	USGS	T29 R12 SE 1/4 of NW 1/4 of SE 1/4 of Section 19	85	Lee Brainard SJ-0567			1978-83			
6	USGS	T29 R12 NW 1/4 of NE 1/4 of SE 1/4 of Section 19	38	Truett C. James SJ-1070			1978-83			
7	USGS	T29 R12 SE 1/4 of SE 1/4 of Section 19	76	Gale Hanson SJ-0953			1978-83			
8	USGS	T29 R13 NW1/4 of NW 1/4 of NW 1/4 of Section 24	52	Raymond W. Neidish SJ-1087			1978-83			
9	State Engineer	T29 R12 SW 1/4 of SE 1/4 of SE 1/4 of Section 19	21	Fred Morris			1986			

Specific conductivity values less than 1500 micromhos have been measured in ground water withdrawn from wells screened in the Nacimiento Formation. Values for specific conductivity of water in wells located near the WEI facility are presented in Table 1.

3. Hydrogeologic Information

a. Soil Types

The WEI facility rests on alluvial sands and gravels which contain well-rounded cobbles and boulders.

b. Name of Aquifer

The Nacimiento Formation is the aquifer in the vicinity of the WEI facility.

c. Composition of Aquifer Material

The Nacimiento Formation is comprised of sandstones and mudstones. The sandstones are medium to very coarse-grained, immature to submature arkoses. The mudstones typically display popcorn weathering characteristic of swelling clays.

d. Depth to Bedrock

The alluvium is underlain by the Nacimiento Formation at a depth of approximately 5 to 10 foot below grade.

4. Miscellaneous Information

a. Flooding Potential

The potential for the facility to become flooded by off-site waterways is considered very low for the following reasons:

- The nearest apparent drainage arroyos are approximately 0.25 miles north of and at least 20 foot lower in elevation than the facility.
- Mr. Frank Kaphart, San Juan County Building Official, stated that the facility is located on an "obvious bench" and would not be within the flood plain of the San Juan River; and
- The facility does not appear to be located within a federally-designated, 100- or 500-year flood plain and is not covered by a Federal flood insurance program.



b. Flood Protection Measures

Special flood protection measures are not necessary because of the low potential for flooding of the facility from off-site water courses.

B. Additional Information

The groundwater resources of the San Juan Basin are principally derived from wells set in Quaternary surficial valley-fill deposits and sandstones of the Tertiary, Cretaceous, Jurassic, and the Triassic. Regional ground water generally flows from topographically high recharge areas consisting of outcrops along mountain flanks to topographically low discharge areas consisting of outcrops along the San Juan River Valley. Numerous alluvial-filled ephemeral stream channels in the region act as additional recharge and discharge areas.

Reported yields of wells screened in the Nacimiento Formation range from 16 to 100 gallons per minute. No aquifer test results collected in this area are available for the Nacimiento Formation. Transmissivities of 100 square foot per day are anticipated for some of the coarser, continuous sandstone bodies.

C. Source Materials for this Section

Buys and Associates, Inc., July 19, 1991, Site Remediation report, WEI Location 32004 Facility, WEI International, Inc., Farmington, New Mexico; unpublished report submitted to NMOCD, 34 p., 7 figures, 1 table, and 2 appendices.

Kapahart, F., March 30, 1992, personal communication between Environmental Services, Inc. and San Juan County Building Office.

New Mexico Bureau of Mines and Mineral Resources, 1983, Hydrology and water resources of San Juan Basin, New Mexico; Hydrologic Report No. 6.

Smith, J. March 30, 1992, personal communication between Environmental Services, Inc. and New Mexico State Engineer's Office.

U.S. Geological Survey, 1984, Availability of hydrologic data in San Juan county, New Mexico; Open file Report 84-608.

U.S. Geological Survey, 1965, Farmington South, New Mexico; U.S. Geological Survey 7.5 minute quadrangle map, photo revised 1979.

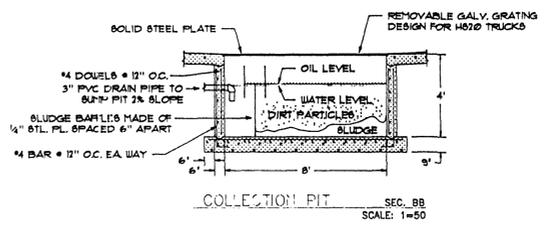
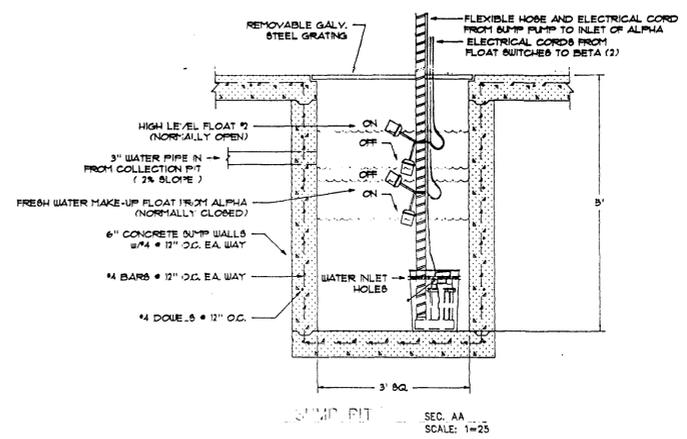
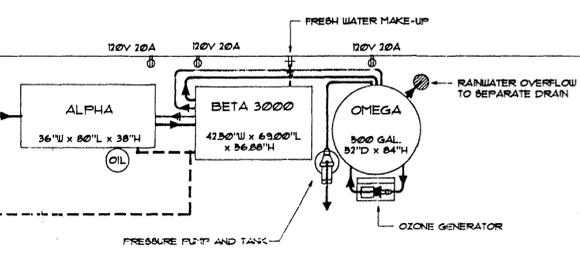
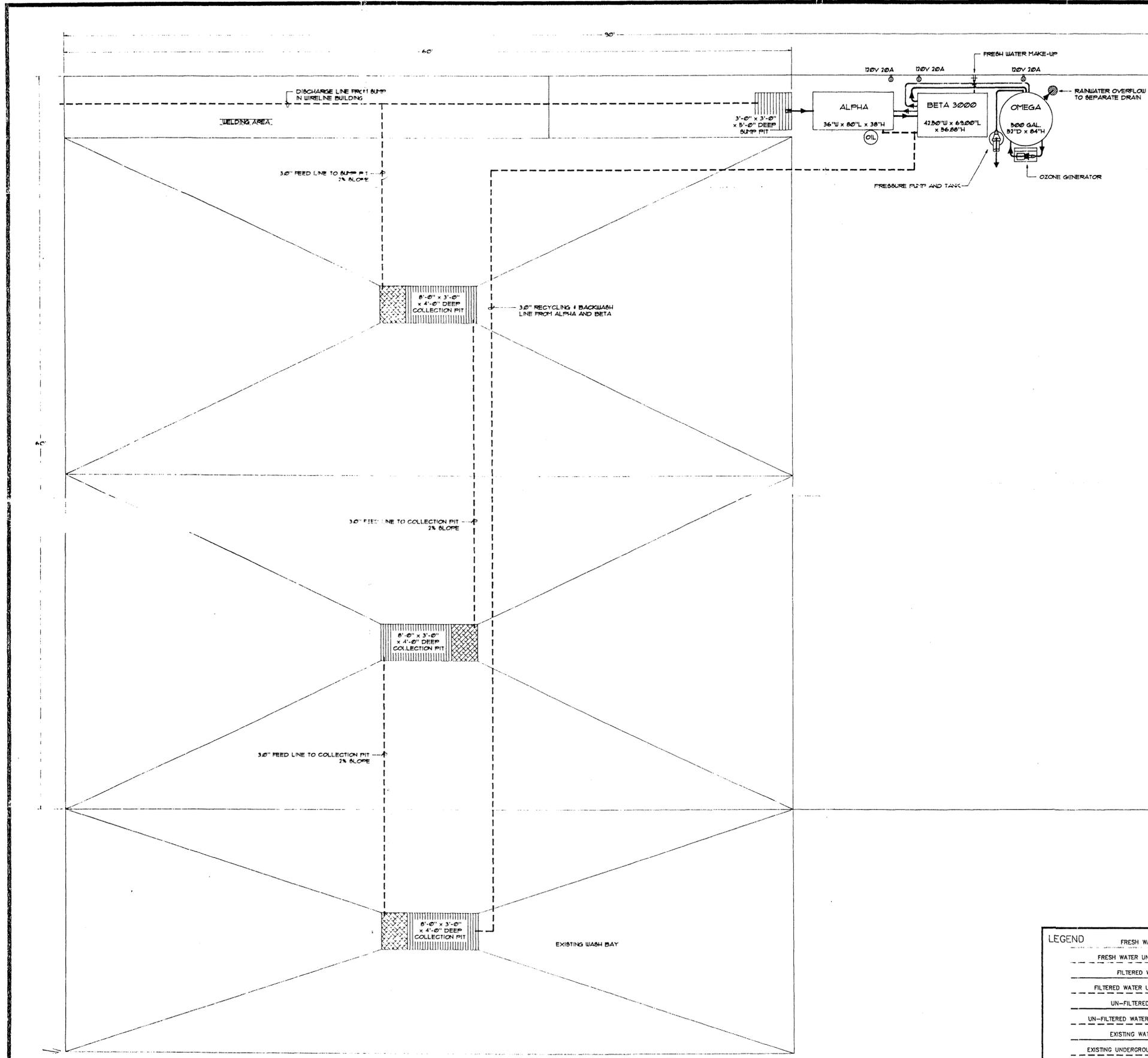
Williams, J., ed., 1984, New Mexico in Maps; University of New Mexico Press, 2nd edition.



XIII. Other Information as is Necessary to Demonstrate Compliance with any Other New Mexico Oil Conservation Division Rules, Regulations, and/or Orders

The WEI facility ceased discharging industrial waste water to leach fields on September 25, 1990. All industrial leach fields were subsequently removed and the leach field materials disposed.





1. ALL INFORMATION SHOWN IS FOR REFERENCE ONLY AND IS INTENDED AS A GUIDELINE TO BE USED BY A PROFESSIONAL ENGINEER OR ARCHITECT IN PREPARING A FINAL DESIGN TO MEET THE SPECIFIC SITE REQUIREMENTS.
 2. WATER MAZE SYSTEM SHOULD BE ENCLOSED WITH PROPER FREEZE PROTECTION.

WATER MAZE
 A DIVISION OF LANDA INC.

CHKD BY:
BSE

LEGEND	
---	FRESH WATER
---	FRESH WATER UNDERGROUND
---	FILTERED WATER
---	FILTERED WATER UNDERGROUND
---	UN-FILTERED WATER
---	UN-FILTERED WATER UNDERGROUND
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND WATER LINE

LANDA INC		Portland, Oregon	
CUSTOMER NAME		LOCATION	
HOMCO INT.		FARMINGTON, NM.	
SCALE 1-50	MATERIAL	DRAWING NUMBER	
DATE 04-09-91	SEE DETAILS	WM233A	
DESCRIPTION		DRAWN BY	
WASHPAD LAYOUT		T. HARRIS	

MEMORANDUM OF MEETING OR CONVERSATION

<input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Personal	Time 9:34 AM	Date 12-13-95
<u>Originating Party</u>		<u>Other Parties</u>
Carolyn Bellis - w/ Mickell Environmental		Pat Sanchez - OCD (I called earlier at 8:00 AM)
<u>Subject</u> WEATHERFORD ENTERRA - GW-126 (Used to be Weatherford)		

Discussion She called back after speaking to Mr. Nickell - he told her that the information was submitted only as part of the name change for the facility.

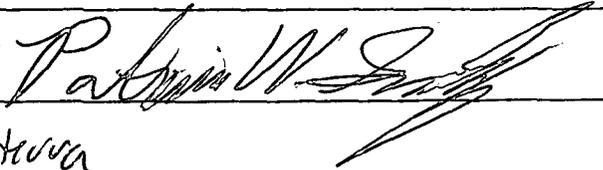
Notes: At the 8:00 AM call I mentioned the "Oil Field Rental - Enterra" Facility in Farmington, and asked about other sites throughout the state - I also indicated the Hobbs facility being up for Renewal in 1996.

Conclusions or Agreements Notes:

I need to follow up on consolidation of facilities and possible Abatement inspections and closure plans for facilities that will be shut down.

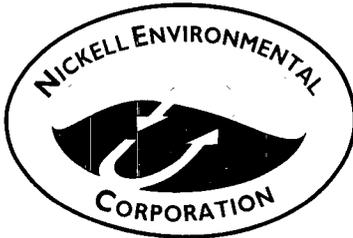
Distribution File

Signed



Phone No. for Weatherford Enterra

713-937-3811 - Becky L. Albers.



ENVIRONMENTAL CONSULTING & REMEDIATION SERVICES

RECEIVED IN DIVISION
RECEIVED
95 DE 12 AM 8 52

November 22, 1995

RECEIVED

DEC 1 2 1995

Environmental Bureau
Oil Conservation Division

Mr. William J. LeMay
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87504

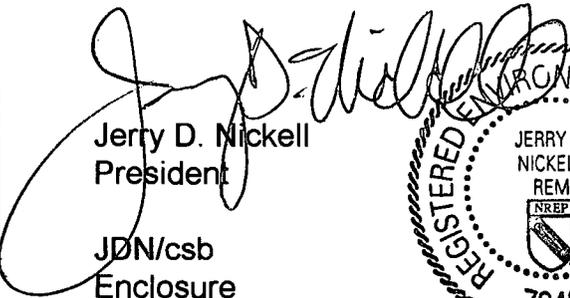
RE: Discharge Plan GW-126
Nickell Project No. WEA.513-1002

Dear Mr. LeMay:

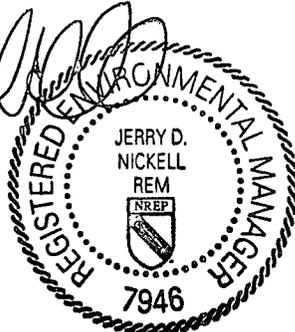
Please find enclosed the Discharge Plan pursuant to Section 3-106 of the Water Quality Control Commission Regulations. This plan is being submitted as an update and name change for the Weatherford Enterra facility located at 5432 U. S. Highway 64, Farmington, New Mexico, formerly Weatherford/Homco. Please review the plan to assure that it fulfills the requirements as set out in the above mentioned section of the WQCCR.

If any additional information is needed at this time, please feel free to contact me at (713) 726-9596.

Sincerely,
NICKELL ENVIRONMENTAL CORPORATION


Jerry D. Nickell
President

JDN/csb
Enclosure



c: Lesa Griffin (Weatherford Enterra, Inc.)
Becky Albers (Weatherford Enterra, Inc.)
Denny Foust (NMOCD, Aztec Office)

Weatherford International Incorporated
1360 Post Oak Boulevard
Suite 1000
Houston, TX 77056-3098

P.O. Box 27608
Houston, TX 77227-7608

713/439-9400
Telefax: 713/621-0994



Weatherford

ENVIRONMENTAL CONSERVATION DIVISION
RECEIVED

'95 OCT 2 AM 8 52

September 29, 1995

NMOCD

Attn: Pat Sanchez
2040 S. Pacheco
Santa Fe, NM 87505

Dear Mr. Sanchez:

As per our conversation on September 27, 1995, this correspondence is to be used as a name change notice to the state of New Mexico for the Homco (Weatherford) site in Farmington.

Weatherford U.S., Inc acquired Homco on March 31, 1993, and as of that date became responsible for the site. At this time the name should be changed to Weatherford U.S., Inc

If you have any questions, please feel free to contact me at (713) 439-9512.

Sincerely,

Becky L. Albers
Regulatory Compliance
Coordinator

c: Lesa Griffin
Environmental Manager



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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

May 27, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-241-991

Mr. Robert J. Medler
Homco International, Inc.
P.O. Box 2442
Houston, Texas 77252

**RE: WASTEWATER SLUDGE DISPOSAL
FARMINGTON SERVICE FACILITY (GW-126)
SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Medler:

The New Mexico Oil Conservation Division (OCD) has received your May 12, 1993 request to dispose of wastewater sludges generated at your Farmington Service Facility. The sludges are generated in the wastewater system and collect in the sump. The sludges are not a listed hazardous waste and the analytical results obtained using EPA approved methods demonstrates that the sludges are characteristically non-hazardous.

Based on the information in the May 12, 1993 request, the OCD hereby approves Homco International, Inc. to dispose of the above referenced wastes at an OCD approved facility. Disposal of the wastes will be in accordance with the approved discharge plan GW-126.

The test for hazardous characteristics for the wastewater sludges is effective for one year from the date of analysis, if, the subsequent wastes from the same waste stream are accompanied by a statement from a corporate official that there has been no change in the processes employed or the chemicals stored/used at the facility generating the waste. The analytical results for the hazardous waste characterization of the wastewater sludge are effective until April 20, 1994. If the above conditions are met then it is not necessary to conduct another test for disposal of the wastes until April 20, 1994.

Mr. Robert Medler
May 27, 1993
Page - 2

Please be advised approval of this operation does not relieve you of liability should your operation result in actual pollution of surface or ground waters or the environment actionable under other laws and/or regulations. In addition, the OCD approval does not relieve you of liability for compliance with any other laws and/or regulations.

If you have any questions, please do not hesitate to contact me at (505) 827-5884.

Sincerely,

A handwritten signature in cursive script that reads "Kathy M. Brown". The signature is written in black ink and is positioned below the word "Sincerely,".

Kathy M. Brown
Geologist

xc: Denny Foust, OCD Hobbs Office

HOMCO

HOMCO INTERNATIONAL, INC.

P.O. BOX 2442
HOUSTON, TEXAS 77252
713/663-6444

OIL CONSERVATION DIVISION

RECEIVED

MAY 12 1993 8 43 AM

Robert J. Medler
Director-Environmental and Safety

May 12, 1993

Mr. Roger Anderson
New Mexico Oil Conservation Division
State Land Office Building
P.O. Box 2088
Santa Fe, NM 87504-2088

RE: ANNUAL UPDATE- WASTE DISPOSAL

Dear Mr. Anderson:

We are seeking approval for disposal of our wastewater sludges that are generated in our Farmington, New Mexico Oil Field Service yard. This approval is actually an update of our 1992 Waste Disposal Permit. The wastewater sludges are generated in the wastewater system and collect in the sump. The processes that generate these wastes have not changed from last years approval. Attached are analysis of the sludge that were conducted by Envirotech for disposal at their land treatment facility near Bloomfield, New Mexico. These sludges are a non-hazardous industrial waste.

Please contact me at the above number if you have any questions or require further information about disposal.

Very truly yours,



Bob Medler

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

May 4, 1993

Mr. Roger Covell
Homco International
P.O. Box 2344
Farmington, New Mexico 87499

Re: Transmittal of Laboratory Analytical Data - Project 91327

Dear Mr. Covell:

Per your request, Envirotech Inc. has completed a waste characterization on the wash bay solids and sludge at the Homco International facility located at No. 5432 U.S. Highway 64, Farmington, New Mexico. This characterization was performed to determine if the material would be acceptable for disposal at the Envirotech Inc. Hilltop, New Mexico landfarm.

Representative samples of the Homco International wash bay solids and sludge were collected by Envirotech Inc. on April 19, 1993 and April 26, 1993 and submitted to the Envirotech Analytical Laboratory for Toxicity Characteristic Leaching Procedure (TCLP) analysis. Analytical results (attached) obtained on the samples indicate that the wash bay media does not exceed regulatory limits, is classified as a non-hazardous waste per RCRA (40CFR261), and therefore would be acceptable for disposal at the Envirotech Inc. landfarm. Included with this transmittal is a Request for Approval to Accept Solid Waste for your execution. Please sign and return this form to Envirotech Inc. at your earliest convenience.

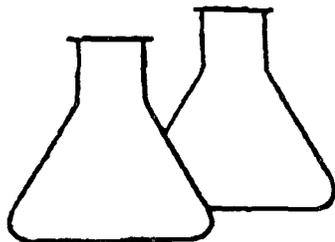
Envirotech Inc. is authorized to receive only solids for landfarm disposal. Any entrained free liquid must be stabilized by blending dry granular soils with the waste stream to solidify any free liquids. This can be accomplished at the generator's facility or by Envirotech Inc. at a holding area near the landfarm facility.

Envirotech Inc. appreciates the opportunity to be of service to Homco International. Envirotech Inc. can be contacted at 632-0615 if you need additional information or clarification.

Respectfully submitted,
Envirotech Inc.

Jeffrey C. Blagg
Jeffrey C. Blagg, P.E.
Geological Engineer

JCB/1327xmt.doc



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHODS 8010/8020
 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
 Pg 1/2

Client:	Homco	Project #:	91327
Sample ID:	No.1	Date Reported:	04-21-93
Laboratory Number:	4956	Date Sampled:	04-19-93
Sample Matrix:	Soil	Date Received:	04-19-93
Preservative:	Cool	Date Extracted:	04-19-93
Condition:	Cool & Intact	Date Analyzed:	04-20-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
2-Butanone	ND	0.006	200
1,1-Dichloroethene	ND	0.005	0.7
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.006	0.7
Chlorobenzene	ND	0.006	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromochloromethane	90 %
Bromofluorobenzene	88 %

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		XXXXXXXXXXXXXXXXXXXXXXXXXXXX
1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	4. Generator HOMCO INTERNATIONAL	
2. Destination ENVIROTECH, INC. LANDFARM	5. Name of Originating Site HOMCO	
3. Address of Facility Operator NO. 5432 USHWY 64 FARMINGTON, NEW MEXICO 87401	6. Name of Transporter ENVIROTECH, INC.	
7. Location of Material (Street Address or ULSTR) NO. 5432 USHWY 64 FARMINGTON, NEW MEXICO 87401	8. State NEW MEXICO	
9. Check One		
<input type="checkbox"/> 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. <input type="checkbox"/> B. All requests for approval to accept non-oilfield exempt wastes will be accompanied by a certification of waste status from the Generator and the New Mexico Environment Department or other appropriate government agency; two certificates per job. <input checked="" type="checkbox"/> C. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.		

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF THE MATERIAL:

WASH BAY SUMP SOLIDS AND SLUDGE GENERATED BY CLEANING OILFIELD DOWNHOLE TOOLS AND EQUIPMENT

Estimated Volume 18 yds or Known Volume (to be entered by the operator at the end of the haul): _____ cy
 I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stacy Mays TITLE ADMINISTRATIVE ASSISTANT DATE 5-4-93

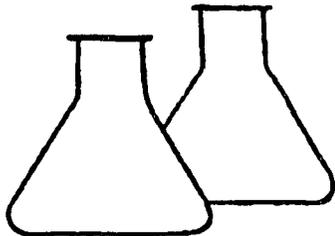
TYPE OR PRINT NAME STACY MAYS TELEPHONE NO. (505) 632-0615

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



ENVIROTECH LABS

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EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 2/2

Sample ID: No.1
Laboratory Number: 4956

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

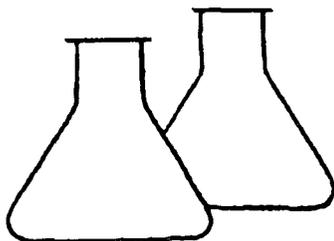
Note: Regulatory Limits based on 40 CFR part 261 Subpart C
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Farmington-Sump Pit.

A. Chubawley
Analyst

M. J. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8040 PHENOLS

Client:	Homco	Project #:	91327
Sample ID:	No. 1	Date Reported:	04-23-93
Laboratory Number:	4956	Date Sampled:	04-19-93
Sample Matrix:	Soil	Date Received:	04-19-93
Preservative:	Cool	Date Extracted:	04-19-93
Condition:	Cool & Intact	Date Analyzed:	04-23-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400.0
Pentachlorophenol	ND	0.020	100.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	2-fluorophenol	91 %
	2,4,6-tribromophenol	93 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 8040, Phenols, Test Methods for Evaluating Solid
 Waste, SW-846, USEPA, Sept. 1986.

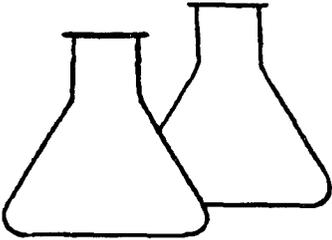
Note: Regulatory Limits based on 40 CFR part 261 subpart C
 section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments: Farmington - Sump Pit

Kevin L. Jensen
 Analyst

Morris D. Young
 Review



ENVIROTECH LABS

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 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Homco	Project #:	91327
Sample ID:	No. 1	Date Reported:	04-22-93
Laboratory Number:	4956	Date Sampled:	04-19-93
Sample Matrix:	Soil	Date Received:	04-19-93
Preservative:	Cool	Date Extracted:	04-19-93
Condition:	Cool and Intact	Date Analyzed:	04-22-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

SURROGATE RECOVERY:	Parameter	Percent Recovery
	2-fluorobiphenyl	105 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,
 Test Methods for Evaluating Solid Waste, SW-846,
 USEPA, Sept. 1986

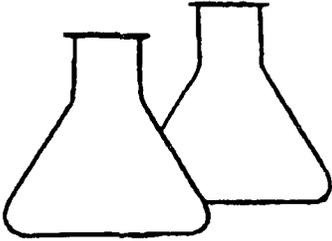
Note: Regulatory Limits based on 40 CFR part 261 subpart C
 section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Dennis L. Clewley
 Analyst

Mani D. Yang
 Review



ENVIROTECH LABS

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 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311
 TOXICITY CHARACTERISTIC LEACHING PROCEDURE
 TRACE METAL ANALYSIS

Client:	Homco	Project #:	91327
Sample ID:	No. 1	Date Reported:	04-28-93
Laboratory Number:	4956	Date Sampled:	04-26-93
Sample Matrix:	Soil	Date Received:	04-26-93
Preservative:	Cool	Date Analyzed:	04-28-93
Condition:	Cool & Intact	Date Extracted:	04-26-93
		Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	0.012	0.001	5.000
BARIUM	1.6	0.1	100.0
CADMIUM	0.655	0.001	1.000
CHROMIUM	0.015	0.001	5.000
LEAD	0.154	0.001	5.000
MERCURY	0.028	0.002	0.200
SELENIUM	0.003	0.001	1.000
SILVER	ND	0.01	5.00

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A
 Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure
 SW-846, USEPA, Nov. 1990

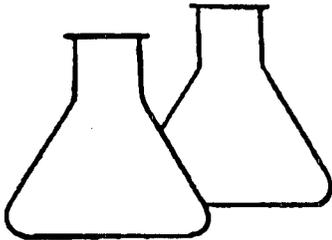
Note: Regulatory Limits based on 40 CFR part 261 subpart C
 section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Farmington - Sump Pit

Devin L. Pierson
 Analyst

Maria D. Young
 Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Homco	Project #:	91327
Sample ID:	No. 1	Date Reported:	04-26-93
Lab ID#:	4956	Date Sampled:	04-19-93
Sample Matrix:	Soil	Date Received:	04-19-93
Preservative:	Cool	Date Analyzed:	04-23-93
Condition:	Cool & Intact		

IGNITABILITY: Did not ignite upon direct contact with flame.

CORROSIVITY: pH of 7.95

REACTIVITY: Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: \leq pH 2 or \geq pH 12.5 is hazardous waste
Farmington - Sump Pit

Tony Tristano
Analyst

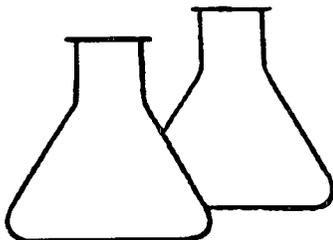
Mani D. Wong
Reviewed

ENVIROTECH LABORATORIES

5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



ENVIROTECH LABS

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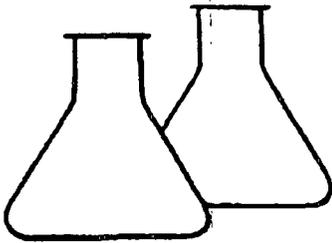
EPA METHODS 8010/8020
 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
 Pg 1/2

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	04-21-93
Laboratory Number:	0420BTCV.BLK	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	04-20-93
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
2-Butanone	ND	0.006	200
1,1-Dichloroethene	ND	0.005	0.7
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.006	0.7
Chlorobenzene	ND	0.006	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromochloromethane	106 %
Bromofluorobenzene	91 %



ENVIROTECH LABS

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EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 2/2

Sample ID: Laboratory Blank
Laboratory Number: 0420BTCV.BLK

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

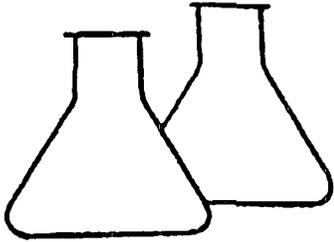
Note: Regulatory Limits based on 40 CFR part 261 Subpart C
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Cee Chabaley
Analyst

Maria D. Young
Review



ENVIROTECH LABS

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 PHONE: (505) 632-0615 • FAX: (505) 632-1865

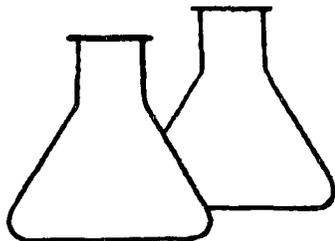
EPA METHODS 8010/8020
 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
 Pg 1/2

Client:	NA	Project #:	NA
Sample ID:	Method Blank	Date Reported:	04-21-93
Laboratory Number:	MB-TCV.BLK	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	Cool	Date Extracted:	04-19-93
Condition:	Cool & Intact	Date Analyzed:	04-20-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
2-Butanone	ND	0.006	200
1,1-Dichloroethene	ND	0.005	0.7
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.006	0.7
Chlorobenzene	ND	0.006	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromochloromethane	97 %
Bromofluorobenzene	90 %



ENVIROTECH LABS

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EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 2/2

Sample ID: Method Blank
Laboratory Number: MB-TCV.BLK

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

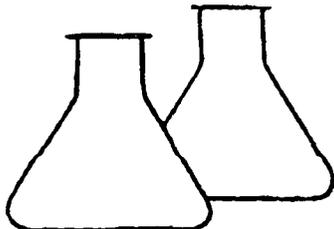
Note: Regulatory Limits based on 40 CFR part 261 Subpart C
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Cu Chevalier
Analyst

Thomas D. Young
Review



ENVIROTECH LABS

4700 L.S. HIGHWAY 64, 3014 FARMINGTON, NEW MEXICO 87403
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Method Blank	Date Reported:	04-23-93
Laboratory Number:	0415TCA.MB	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	Cool	Date Extracted:	04-15-93
Condition:	Cool & Intact	Date Analyzed:	04-23-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400.0
Pentachlorophenol	ND	0.020	100.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	2-fluorophenol	92.5 %
	2,4,6-tribromophenol	107.1 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

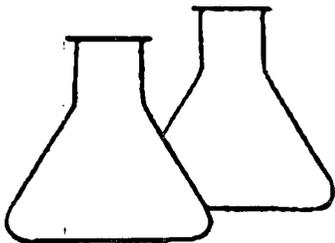
Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments: TCLP Extraction Method Blank

Steven J. Cramer
Analyst

Marilyn Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	04-23-93
Laboratory Number:	0423tca.blk	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	04-23-93
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400.0
Pentachlorophenol	ND	0.020	100.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	2-fluorophenol	107.9 %
	2,4,6-tribromophenol	86.7 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 8040, Phenols, Test Methods for Evaluating Solid
 Waste, SW-846, USEPA, Sept. 1986.

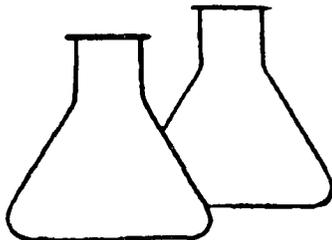
Note: Regulatory Limits based on 40 CFR part 261 subpart C
 section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments:

Shirley J. Pinner
 Analyst

Maria D. Young
 Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	04-22-93
Laboratory Number:	0422tbn.blk	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	04-22-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

SURROGATE RECOVERY:	Parameter	Percent Recovery
	2-fluorobiphenyl	109 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,
 Test Methods for Evaluating Solid Waste, SW-846,
 USEPA, Sept. 1986

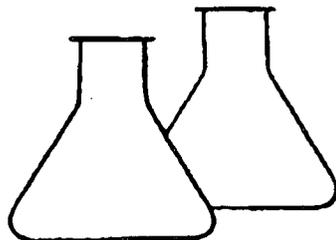
Note: Regulatory Limits based on 40 CFR part 261 subpart C
 section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Devin L. Cleaver
 Analyst

Marie D. Young
 Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Method Blank	Date Reported:	04-22-93
Laboratory Number:	04-15-bn.mb	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	NA	Date Extracted:	04-15-93
Condition:	NA	Date Analyzed:	04-22-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

SURROGATE RECOVERY:	Parameter	Percent Recovery
	2-fluorobiphenyl	113 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,
 Test Methods for Evaluating Solid Waste, SW-846,
 USEPA, Sept. 1986

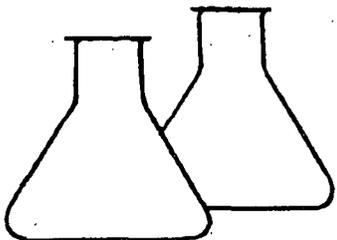
Note: Regulatory Limits based on 40 CFR part 261 subpart C
 section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: TCLP Extraction Method Blank

Devin L. Jensen
 Analyst

Maria D. Young
 Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311
 TOXICITY CHARACTERISTIC LEACHING PROCEDURE
 TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	04-28-93
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	04-28-93
Condition:	NA	Date Extracted:	NA

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A
 Analysis of Metals by GFAA and FLAA, SW-846, USEPA

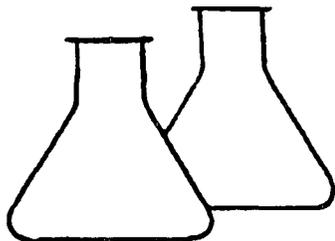
Method 1311, Toxicity Characteristic Leaching Procedure
 SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Jensen
 Analyst

Margaret Young
 Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

**** QUALITY ASSURANCE** EPA METHODS 8010/8020
MATRIX SPIKE - AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Spike	Date Reported:	04-21-93
Laboratory Number:	4956	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	04-20-93
Condition:	NA		

Parameter	Sample Result (ug/L)	Spike Added (ug/L)	Spiked Sample Result (ug/L)	Det. Limit (ug/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	10.0	7.0	5.0	67	28-163
2-Butanone	ND	10.0	12.9	6.2	83	47-132
1,1-Dichloroethene	ND	10.0	9.6	5.0	95	43-143
Chloroform	ND	10.0	9.1	5.0	91	49-133
Carbon Tetrachloride	ND	10.0	11.0	5.0	110	43-143
Benzene	ND	10.0	10.7	5.3	94	39-150
1,2-Dichloroethane	ND	10.0	10.9	5.0	108	51-147
Trichloroethene	ND	10.0	8.4	5.0	84	35-146
Tetrachloroethene	ND	10.0	12.1	6.2	85	26-162
Chlorobenzene	ND	10.0	8.1	5.6	80	38-150
1,4-Dichlorobenzene	ND	10.0	8.2	5.0	82	42-143

Method: Method 1311, Toxicity Characteristic Leaching Procedure
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating
 Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods
 for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

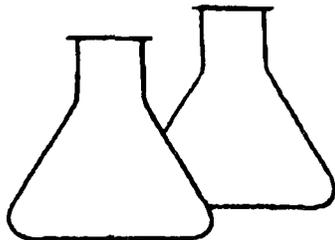
Method 8020, Aromatic Volatile Organics, Test Methods for
 Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

A. Chaharlang
 Analyst

Marian D. Young
 Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT
 EPA METHOD 1311
 TOXICITY CHARACTERISTIC LEACHING PROCEDURE
 TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	04-28-93
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	04-28-93
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	0.012	0.111	99
BARIUM	10.0	1.6	11.5	99
CADMIUM	0.100	0.655	0.750	95
CHROMIUM	0.100	0.015	0.114	99
LEAD	0.100	0.154	0.252	98
MERCURY	0.050	0.028	0.080	104
SELENIUM	0.100	0.003	0.102	99
SILVER	1.00	ND	1.00	100

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A
 Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure
 SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Russell L. Clemen
 Analyst

Margaret D. Young
 Review



UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Ecological Services
Suite D, 3530 Pan American Highway, NE
Albuquerque, New Mexico 87107

OIL CONSERVATION DIVISION
RECEIVED
'92 JUL 15 AM 8 35

July 14, 1992

Mr. William J. Lemay, Director
State of New Mexico Oil
Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Lemay:

This responds to the notice of publication received by the U.S. Fish and Wildlife Service (Service) on July 9, 1992, regarding the effects of Oil Conservation Division (OCD) discharge permits GW-97, GW-100, GW-126, and GW-96 on fish, shellfish, and wildlife resources in New Mexico.

The Service has determined there are no wetlands or other environmentally sensitive habitats, plants, or animals that will be adversely affected by the following discharges.

GW-97 - The Western Company of North America, Farmington Service Facility located in Section 13 and 14, T29N, R13W, NMPM, San Juan County, New Mexico. Approximately 500 gallons per day of waste water is collected in the truck wash bay and discharged into the City of Farmington Sewage Treatment System.

GW-100 - Dowell Schlumberger Incorporated, Farmington Service Facility located in Section 14, T29N, R13W, NMPM, San Juan County, New Mexico. There are no planned discharges at this facility.

GW-126 - HOMCO International, Inc. Farmington Service Facility located in Section 19, T29N, R12W, NMPM, San Juan County, New Mexico. Approximately 600 gallons per day of waste water is pumped into a Watermaze Recycling Separator and reused for steam cleaning operations.

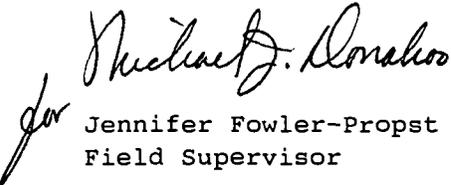
GW-96 - BJ Services, Farmington Service Facility located in Section 13, T29N, R13W, NMPM, San Juan County, New Mexico. Approximately 8 gallons per day of waste water will be disposed of offsite at an OCD approved facility.

Mr. William J. Lemay, Director

2

If you have any questions concerning our comments, please contact Mary Orms at (505) 883-7877.

Sincerely,


Jennifer Fowler-Propst
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Regional Administrator, U.S. Environmental Protection Agency, Dallas, Texas

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

STATE OF NEW MEXICO

County of Bernalillo

SS

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...13....day

of July....., 1992, and the subsequent consecutive

publications on....., 1992.

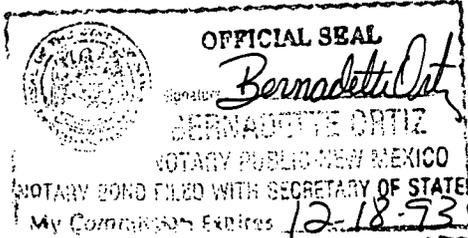
Thomas J. Smithson

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 13 day of July, 1992.

PRICE.....\$40.85

Statement to come at end of month.

ACCOUNT NUMBER.....080930



CLA-22-A (R-12/92)

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications 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-97) - The Western Company of North America, Phillip Box, 515 Post Oak Blvd., Suite 1200, Houston, Texas 77027, has submitted a discharge plan application for their Farmington Service Facility located in the W/2SW/4NW/4, Section 13 and the E/2SE/4NE/4 Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 500 gallons per day of waste water is collected in the truck wash bay and discharged into the City of Farmington Sewage Treatment System (POTW). Ground water is most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-100) - Dowell Schlumberger incorporated, Dan H. McKenzie, 3108 Bloomfield Hwy., P.O. Box 1650, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SE/4NE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. There are no planned discharges at the facility. Ground water is most likely to be affected by an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 1650 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-126) - HOMCO International, Inc., Robert J. Medler, Director Environmental-Safety, 5432 US Highway 64, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SW/4NW/4, Section 18, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 600 gallons per day of waste water is pumped to a Watermaze Recycling Separator and reused for steam cleaning operations. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 30 feet with a total dissolved solids concentration ranging from 630 mg/l to 1470 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-96) - BJ Services, Jo Ann Cobb, Environmental Manger, 11211 W. FM 2920, Tomball, Texas, 77375, has submitted a discharge plan application for their Farmington Service Facility located in the SW/4SE/4, Section 13 and the SE/4SE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 8 gallons per day of waste water will be disposed of offsite at an OCD approved disposal facility. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 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 5:00 p.m., Monday through Friday. Prior to ruling on any proposed

AFFIDAVIT OF PUBLICATION

No. 29761

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 qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for ONE consecutive (days) (//////) on the same day as follows:

First Publication SUNDAY, JULY 12, 1992

Second Publication _____

Third Publication _____

Fourth Publication _____

and the cost of publication was \$ 51.36

Christine Hill

Subscribed and sworn to before me this 20th day of JULY, 1992.

Connie Ambae
Notary Public, San Juan County,
New Mexico

My Comm expires: July 3, 1993

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 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:

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(GW-126) - HOMCO International Inc., Robert J. Medler, Director Environmental Safety, 5432 US Highway 64, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SW/4 NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 600 gallons per day of waste water is pumped to a Watermaze Recycling Separator and reused for steam clearing operations. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 30 feet with a total dissolved solids concentration ranging from 630 mg/l to 1470 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modifications, 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. Requests 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 1st day of July, 1992.

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

SEAL

Legal No 29761 published in the Farmington Daily Times, Farmington, New Mexico on Sunday, July 12, 1992.

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 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:

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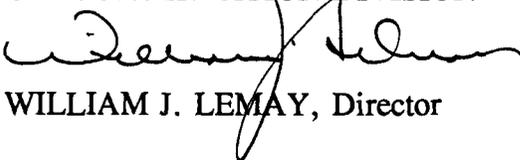
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If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 1st day of July, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY, Director

S E A L

RECEIVED

JUN 18 1992

OIL CONSERVATION DIV.
SANTA FE

June 16, 1992

Mr. Roger Anderson
State of New Mexico Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

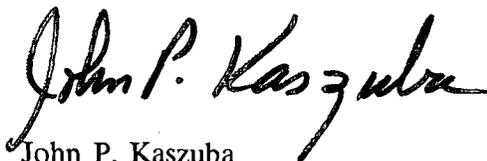
RE: DISCHARGE PLAN, HOMCO LOCATION 151, FARMINGTON, NEW MEXICO

Dear Mr. Anderson:

On behalf of HOMCO International, Inc. (HOMCO), Buys and Associates, Inc. is pleased to submit the enclosed Discharge Plan required by the State of New Mexico Oil Conservation Division (NMOCD) for the HOMCO facility located in Farmington, New Mexico. Also enclosed is a check for \$1,430. This check is submitted for the \$50 filing fee and the \$1,380 flat fee as specified in the February 21, 1992 transmittal from Mr. William J. LeMay.

If you have any questions regarding this transmittal, please contact me at (303) 730-2500.

Sincerely,
BUYS AND ASSOCIATES, INC.



John P. Kaszuba
Program Manager

Enclosures: 3 copies of discharge plan
check for \$1,430

cc: Mr. Robert J. Medler, HOMCO-Houston (w/ 2 copies of final report)

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 6/15/92,
or cash received on 6/19/92 in the amount of \$ 1430.00
from Buys & Associates for Homco International
for Farmingington Service Co GW-126
(Facility Name) (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: Roger Anderson Date: 6/19/92

Received in ASD by: Shirley [Signature] Date: 6/19/92

Filing Fee New Facility Renewal _____

Modification _____ Other _____
(specify)

Organization Code 521.07 Applicable FY 80

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment _____

**BUYS & ASSOCIATES
ENVIRONMENTAL CONSULTANTS**
6574 S. BROADWAY #200
LITTLETON, COLORADO 80121
(303) 730-2500
FAX #(303) 730-2522

EQUITABLE BANK of Littleton, N.A.
101 West Mineral Ave.
Littleton, Colorado 80120
82-548
1070

[REDACTED]
3917

PAY: ONE THOUSAND FOUR HUNDRED THIRTY DOLLARS

DATE 06/15/92 AMOUNT *****\$1,430.00

TO THE ORDER OF NMED WATER QUALITY MANAGEMENT
310 OLD SANTA FE TRAIL
SANTA FE, NM 87501

John P. Kaszuba
DJ. Kardash

[REDACTED]

03917

NMED
 NMED WATER QUALITY MANAGEMENT

06/15/92

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT	PREVIOUS PAY/CREDIT	DISCOUNT TAKEN	AMOUNT OF PAYMENT
CK REQ.	06/15/92	1,430.00	0.00	0.00	1,430.00

Gw-126

1,430.00



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



BRUCE KING
GOVERNOR

May 27, 1992

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ANITA LOCKWOOD
CABINET SECRETARY

CERTIFIED MAIL
RETURN RECEIPT NO. P-670-683-587

Mr. Robert J. Medler
Environmental Safety Director
Homco International, Inc.
P.O. Box 2442
Houston, Texas 77252

**RE: HOMCO LOCATION 151
FARMINGTON, NEW MEXICO**

Dear Mr. Medler:

The New Mexico Oil Conservation Division (OCD) has reviewed the April 2, 1992 correspondence from Homco's consultant, Buys & Associates, requesting OCD approval of the February 14, 1992 "ADDENDUM SITE REMEDIATION CLOSURE REPORT, HOMCO INTERNATIONAL, INC. LOCATION 151 FACILITY, FARMINGTON, NEW MEXICO".

The OCD approves of the final closure of the industrial leachfields at the Homco 151 Farmington Facility as contained in the above referenced report.

Please be advised that OCD approval does not limit Homco to the work performed should residual soil contaminants result in actual contamination of ground waters or surface waters. In addition, OCD approval does not relieve Homco of liability which may be actionable under any other federal, state, county or local laws and/or regulations.

If you have any questions, please call me at (505) 827-5885.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Denny Foust, OCD Aztec Office
John P. Kaszuba, Buys & Associates



OIL CONSERVATION DIVISION
RECEIVED
6574 South Broadway Suite 200
Littleton, Colorado 80121
303/730-2500 FAX 303/730-2522
'92 APR 6 AM 8 59

April 2, 1992

Mr. William Olson
Hydrogeologist
State of New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RE: HOMCO LOCATION 151, ADDENDUM REMEDIATION CLOSURE REPORT

Dear Mr. Olson:

On behalf of HOMCO International, Inc. (HOMCO), Buys and Associates, Inc. requests a letter from the New Mexico Oil Conservation Division (NMOCD) that approves final closure of the industrial leachfields that were located at the HOMCO Location 151 facility in Farmington, New Mexico. This request is based on your review and approval of the *Addendum Site Closure Report*, dated February 14, 1992, that was submitted to your agency.

If you have any questions regarding this transmittal, please contact me or Marty Buys at (303) 730-2500.

Sincerely,
BUYS AND ASSOCIATES, INC.

John P. Kaszuba
Program Manager

cc: Mr. Robert J. Medler, HOMCO-Houston

a:\91work\nmocc01.apr

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

February 21, 1992

CERTIFIED MAIL
RETURN RECEIPT NO. P-327-278-290

Mr. Jerry Casparis, Vice President
HOMCO
P.O. Box 2442
Houston, Texas 77252

**RE: DISCHARGE PLAN REQUIREMENT
FARMINGTON SERVICE FACILITY
SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Casparis:

Under the provisions of the New Mexico Water Quality Control Commission (WQCC) Regulations, you are hereby notified that the filing of a discharge plan is required for your existing Farmington Service Facility located at 5432 Highway 64, Farmington, San Juan County, New Mexico.

This notification of discharge plan requirement is pursuant to Part 3-104 and Part 3-106 of the WQCC Regulations. The discharge plan, defined in Part 1.101.P. of the WQCC Regulations, should cover all discharges of effluent or leachate at the facility or adjacent to the facility site. Included in the application should be plans for controlling spills and accidental discharges at the facility (including detection of leaks in below grade sumps, buried underground process tanks and/or piping), and closure plans for any pits or ponds whose use will be discontinued.

A copy of the regulations is enclosed for your convenience. Also enclosed is an application and a copy of OCD Guidelines for the Preparation of Discharge Plans at Oil Field Service Facilities. Three copies of your discharge plan should be submitted for review purposes.

Section 3-106.A. of the regulations requires submittal of the discharge plan application within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Part 3-106.A. also allows discharges to

Mr. Jerry Casparis
February 21, 1992
Page -2-

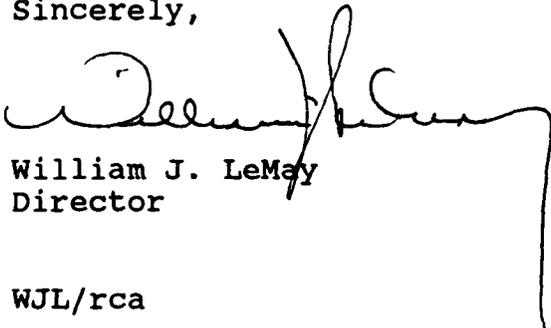
continue without an approved discharge plan until 240 days after written notification by the Director of the OCD that a discharge plan is required. An extension of this time may be sought and approved for good cause.

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund". WQCC Rule 3-114 became effective as of August 18, 1991, and is found on page 33.1 of the enclosed WQCC Rules and Regulations.

Every billable facility submitting a new discharge plan will be assessed a fee equal to the filing fee plus either a flat fee or discharge fee. The filing fee is fifty (50) dollars and shall be submitted with the discharge plan application (nonrefundable). The remainder of the "total fee" for oil and gas service companies falls under the "flat fee" category and is equal to one-thousand, three-hundred and eighty dollars (\$1380). The flat fee for an approved discharge plan 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 out to the **NMED - Water Quality Management**.

If there are any questions on this matter, please feel free to contact Roger Anderson at (505) 827-5812 or Kathy Brown at (505) 827-5884 as they have the assigned responsibility for review of all discharge plans.

Sincerely,



William J. LeMay
Director

WJL/rca

xc: Denny Foust - OCD Aztec Office
Mr. Loren McClelland -HOMCO - Farmington

RECEIVED

JUN 18 1992

OIL CONSERVATION DIV.
SANTA FE

**DISCHARGE PLAN FOR
HOMCO INTERNATIONAL, INC.
LOCATION 151
FARMINGTON, NEW MEXICO**

Gw-12L

June 15, 1992

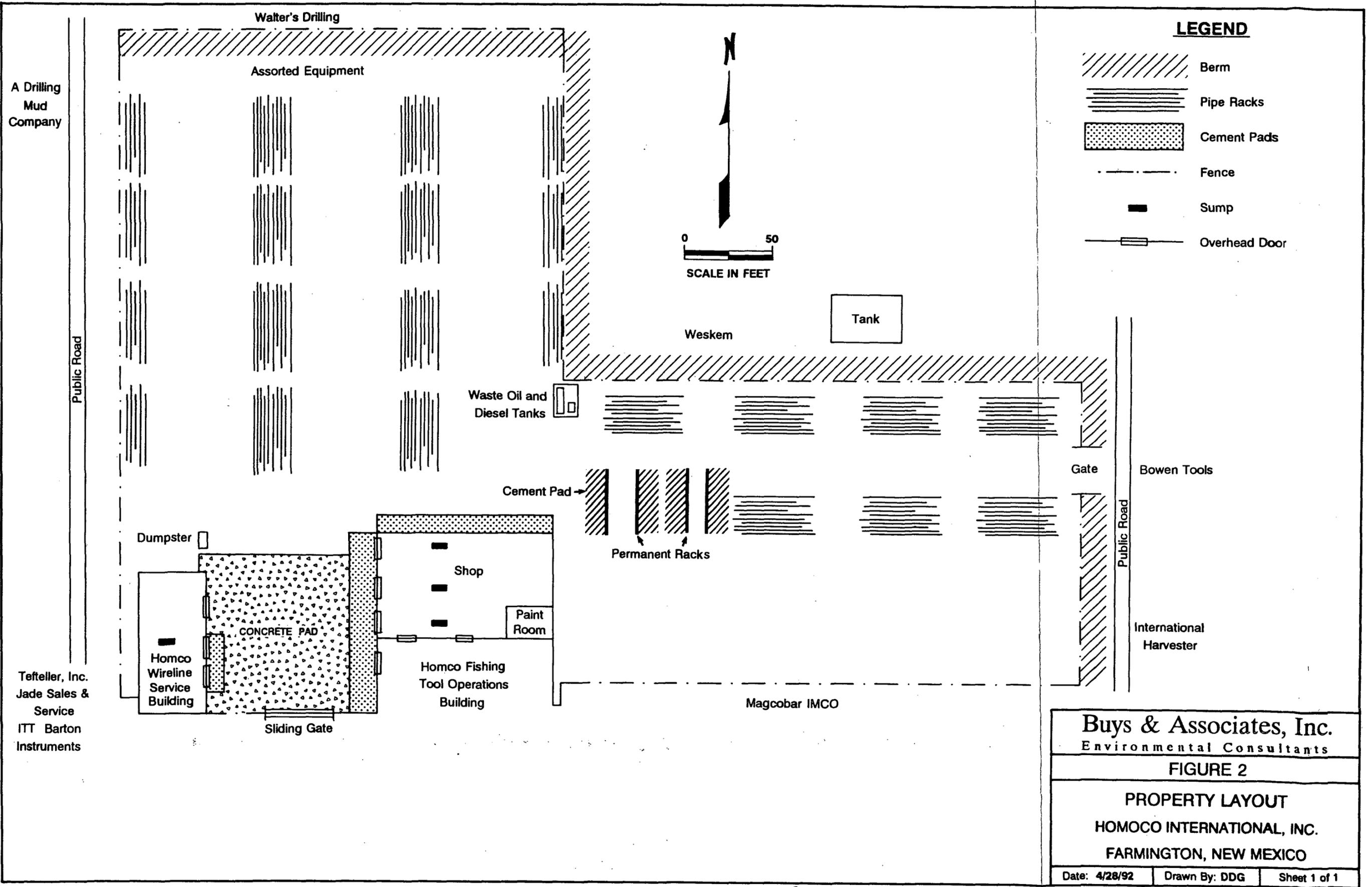
Prepared for:

**HOMCO INTERNATIONAL, INC.
4710 Bellaire, Suite 200
Houston, TX 77401**

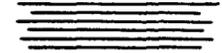
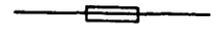
Prepared by:

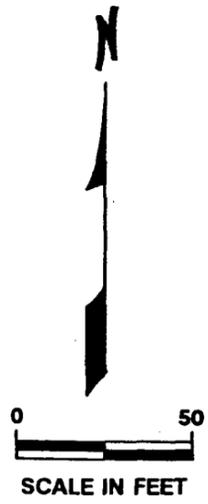
BUYS AND ASSOCIATES, INC.

*6574 South Broadway
Suite 200
Littleton, Colorado 80121
(303) 730-2500
FAX (303) 730-2522*



LEGEND

-  Berm
-  Pipe Racks
-  Cement Pads
-  Fence
-  Sump
-  Overhead Door



Buys & Associates, Inc.
 Environmental Consultants

FIGURE 2

PROPERTY LAYOUT
HOMOCO INTERNATIONAL, INC.
FARMINGTON, NEW MEXICO

Date: 4/28/92	Drawn By: DDG	Sheet 1 of 1
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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 equipment rental and storage; Wireline services
- II. OPERATOR: HOMCO International, Inc. (Location #151)
ADDRESS: 5432 US Highway 64, Farmington, New Mexico 87401
CONTACT PERSON: Roger Covel PHONE: (505)327-6341
- III. LOCATION: SW/4 NW/4 Section 19 Township 29 Range 12 W
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.
- 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: Robert J Medler Title: Director ENVIRONMENTAL/SAFETY
Signature: Robert J Medler Date: 6/11/92

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES
HOMCO International, Inc.
Farmington, New Mexico

I. Type of Operation

Oilfield equipment rental and storage and wireline services.

II. Name of Operator and Local Representative

HOMCO International, Inc.
Location 151
5432 U.S. Highway 64
Farmington, New Mexico 87401
(505) 327-6341
Local Contact: Mr. Roger Covel

III. Location of Discharge

The HOMCO International, Inc. (HOMCO) Location 151 facility is situated in the southwest corner of the northwest corner of Section 19, Township 29 North, Range 12 West in San Juan County, New Mexico. The facility is located at 5432 U.S. Highway 64 in Farmington, New Mexico (Figure 1).

IV. Name and address of landowner of the facility.

Mr. Cecil E. McClelland
P.O. Box 4010 Bayview
Los Fresnos, Texas 78566
(512) 233-4128

R 13 W

R 12 W



T
29
N

Buys & Associates, Inc.
Environmental Consultants

FIGURE 1

SITE LOCATION MAP

HOMCO INTERNATIONAL, INC.
FARMINGTON, NEW MEXICO

Date: 4/30/92

Reference: Farmington South Quadrangle
New Mexico - San Juan County.
7.5 Minute Series (Topographic).
SCALE: 1: 24,000

V. Description of the facility.

The facility lies on a tract of approximately 13.5 acres of land. It is bordered to the south by U.S. Highway 64; to the southeast by Magcobar (a drilling mud company); to the east by Bowen Tools and International Harvester across a public road; to the northeast by Weskem (a drilling mud company); to the north by Walters drilling company; to the northwest by another drilling mud company; and to the west by two office buildings located across a public street (Figure 2).

The facility lies at an approximate elevation of 5380 feet above mean sea level. Echo Ditch is located immediately south of U.S. Highway 64 and approximately one half mile north-northeast of the San Juan River. The topography at the facility is relatively flat. It slopes to the south towards a drainage ditch located on the north side of Highway 64. The north and part of the east edges of the facility are bordered by a sandstone bluff. The majority of the HOMCO facility is surfaced with road base.

Two structures are located on the property, the HOMCO Fishing Tools Operations building and the HOMCO Wireline Services building (Figure 2). Concrete slabs are adjacent to portions of both the HOMCO Wireline Services and HOMCO Fishing Tool Operations buildings. In addition, the area immediately between the two buildings is paved with concrete.

The HOMCO Fishing Tool Operations building is the center of plant operations and houses the administrative offices. The HOMCO Wireline Services building contains a water pump/hot water heater system which is used to wash logging tools, wireline trucks and passenger vehicles. Significantly dirtier equipment (e.g. blowout preventers, drill collars, drill bits, etc.) is steam cleaned in the main shop located in the HOMCO Fishing Tool Operations building. A Water Maze oil/water separator is installed in the HOMCO Fishing Tool Operations building. The separator processes and recycles wash water used for steam cleaning operations in the HOMCO Fishing Tool Operations building. Industrial waste water from the HOMCO Wireline Services building is routed via 2-inch diameter polyvinylchloride pipe to the oil/water separator in the HOMCO Fishing Tool Operations building.

VI. Description of all materials stored or used at the facility.

The three-page attachment to Part VI describes the materials used or stored at the facility. Locations specified in this attachment refer to Figure 2 in Section V (Facility Layout). The following abbreviations are used in the Attachment to this section:

Shop = Shop in the HOMCO Fishing Tool Operations Building

Paint Room = Paint room in the HOMCO Fishing Tool Operations Building.

PART VI ATTACHMENT
Materials Stored or Used at the Facility
Discharge Plan Application
HOMCO International, Inc.
Farmington, New Mexico
April, 1992

Name	General Makeup or Brand Name	Solids(S) or Liquids(L)	Type of Container	Estimated Volume Stored	Location
<i>1. Drilling Fluids</i>	NA	NA	NA	NA	NA
<i>2. Brines</i>	NA	NA	NA	NA	NA
<i>3. Acids/Caustics</i>	NA	NA	NA	NA	NA
<i>4. Detergents/Soaps</i>	ZEP Double Play	L	1-Gallon Dispenser	4 Gallons	Shop
	Grit Away	L	1-Gallon Buckets	4 Gallons	Shop
	Ruff Neck	S	50-Pound Canister	50 Pounds	Shop
	Car Wash Soap (Classic Pink HpH)	S	50-Pound Canister	50 Pounds	Shop
	Premiere Laundry Detergent	S	40-Pound Plastic Container	40 Pounds	Shop
<i>5. Solvents/Degreasers (MSD Sheets Attached)</i>	Saftey Kleen	L	Tank	30 to 40 Gallons	Shop
	Bomber Aerosol	Aerosol	16-Ounce Cans	12 Cans	Shop*
<i>6. Parrafin Treatment/ Emulsion Breakers</i>	NA	NA	NA	NA	NA
<i>7. Biocides</i>	NA	NA	NA	NA	NA
<i>8. Others</i>					
	<i>Paint</i>				
	Krylon Enamel Brand				
	Bright Copper	Aerosol	12-Ounce Cans	12 Cans	Paint Room*
	Red	Aerosol	12-Ounce Cans	3 Cans	Paint Room*
	Black	Aerosol	12-Ounce Cans	1 Can	Paint Room*
	Silver	Aerosol	12-Ounce Cans	3 Cans	Paint Room*
	Primer	Aerosol	12-Ounce Cans	1 Can	Paint Room*
	Wellborn Enamel Brand				
	Red	L	1-Gallon Can	1 Can	Paint Room*
	Blue	L	1-Gallon Can	1 Can	Paint Room*
	Yellow	L	1-Gallon Can	3 Cans	Paint Room*
	Green	L	1-Gallon Can	1 Can	Paint Room*
	Black	L	1-Gallon Can	1 Can	Paint Room*

NA - Not Applicable

* - Stored in a fire-proof metal cabinet.

SAFETY-KLEEN 105 PARTS WASHING SOLVENT

MATERIAL SAFETY DATA SHEET

SECTION I -- PRODUCT INFORMATION

Safety-Kleen Corporation - 777 Big Timber Road - Elgin, IL 60123
For Product/Sales Information Call 708/697-8460

EMERGENCY TELEPHONE	MEDICAL:	TRANSPORTATION:
These numbers are for emergency use only. If you desire non-emergency information about this product, please call the telephone number listed above.	800/942-5969 or 312/942-5969 RUSH POISON CONTROL CENTER CHICAGO, ILLINOIS (24 HOURS)	800/424-9300 CHEMTREC

IDENTITY (TRADE NAME): SAFETY-KLEEN 105 PARTS WASHING SOLVENT

SYNONYMS: PETROLEUM DISTILLATES, PETROLEUM NAPHTHA, MINERAL SPIRITS, STODDARD SOLVENT

SK PART NUMBER: 6617

FAMILY/CHEMICAL NAME: HYDROCARBON SOLVENT

PRODUCT USAGE: SOLVENT FOR CLEANING AND DEGREASING PARTS

SECTION II -- HAZARDOUS COMPONENTS

NAME	SYNONYM	%	CAS NO.	OSHA PEL (ppm)	ACGIH TLV (ppm)
Parts Washer Solvent (consists predominantly of C9-C13 hydrocarbon)	Mineral Spirits	(Typical % by Wt.)			
C9-C13 Saturated Hydrocarbon		85	64741-41-9	100 (Stoddard Solvent)	100 (Stoddard Solvent)
*Toluene		0.5	108-88-3	100 150 STEL	100 150 STEL
*Xylene		1.0	1330-20-7	100 150 STEL	100 150 STEL
*Ethyl Benzene		0.5	100-41-4	100 Skin 125 STEL	100 125 STEL
C8+ Aromatics		12.0	Mixture	N/E	N/E
Chlorinated Solvents		(Max 1% by Wt.)			
*1,1,1 Trichloroethane		< 0.5	71-55-6	350 450 STEL	350 450 STEL
*Tetrachloroethylene		< 0.5	127-18-1	25	50 200 STEL

N/E = Not Established
* See Section X - Other Regulatory Information

SECTION III -- PHYSICAL DATA

PHYSICAL STATE, APPEARANCE AND ODOR: Combustible liquid - clear, green, with characteristic hydrocarbon odor.

BOILING POINT: 300° - 429° F

EVAPORATION RATE:	(Butyl Acetate = 1) 0.1
PERCENT VOLATILE:	99.9%
VAPOR DENSITY:	4.9 (Air = 1)
VAPOR PRESSURE:	2 mm of Hg at 68° F
SOLUBILITY IN WATER:	Negligible
pH:	Not Applicable
SPECIFIC GRAVITY:	0.77 to 0.80
MOLECULAR WEIGHT:	Approximately 142
VOLATILE ORGANIC COMPOUNDS:	795 g/L

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	105° F (SETA)
AUTOIGNITION TEMPERATURE:	473° F
CONDITIONS OF FLAMMABILITY:	Materials must be moderately heated before ignition can occur.
FLAMMABLE LIMITS IN AIR - LOWER:	0.7% UPPER: 6.0%
EXTINGUISHING MEDIA:	Carbon dioxide, foam, dry chemical, water (mist only).
FIRE FIGHTING PROCEDURES -- SPECIAL:	NFPA 704 Rating 2-2-0

Keep storage tanks cool with water spray. Use self-contained breathing apparatus (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Decomposition and combustion products may be toxic. Heated tanks may rupture, explode or be thrown into the air. Vapors are heavier than air and may travel great distances to ignition source and flashback.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition and burning may produce carbon monoxide.

SECTION V -- REACTIVITY DATA

STABILITY:	Normally stable even under fire exposure conditions and is not reactive with water. Normal firefighting procedures may be used.
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizing agents (e.g. chlorine, peroxides, strong acids).
HAZARDOUS POLYMERIZATION:	Not known to occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS:	Normally none; however, incomplete burning may yield carbon monoxide.

SECTION VI -- HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Skin and eye contact; inhalation.

HEALTH HAZARD DATA/SIGNS AND SYMPTOMS OF EXPOSURE:

ACUTE: *Skin:* Prolonged or repeated contact tends to remove skin oils, possibly leading to irritation and dermatitis. No significant skin absorption hazard.

Eyes: Contact may cause slight to moderate irritation. High vapor concentrations (> 500 ppm) are irritating to the eyes.

Inhalation: High concentrations of vapor or mist may be irritating to the respiratory tract, cause headaches, dizziness, nausea, impaired coordination, anesthesia and may have other central nervous system effects.

Ingestion: Low order of acute oral toxicity. May cause irritation of the throat, nausea, vomiting and symptoms of central nervous system depression. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

CHRONIC: Prolonged and/or repeated contact may cause drying and cracking of the skin or dermatitis.

OTHER POTENTIAL HEALTH HAZARDS:

The impurities that may be present are not expected to add significantly to the effects of exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with pre-existing central nervous system dysfunction may have increased susceptibility to the effects of exposure. Contact with skin may aggravate pre-existing dermatitis.

CARCINOGENICITY: Tetrachloroethylene is listed by IARC and NTP as a suspected carcinogen. Studies indicate that Ethyl Benzene and 1,1,1 Trichloroethane are experimental teratogens.

SECTION VII -- EMERGENCY AND FIRST AID PROCEDURES

- EYES:** For direct contact, flush eyes with water for 15 minutes lifting upper and lower lids occasionally. Consult physician if irritation or pain persists. If irritation or redness from exposure to vapors or mists develop, move victim away from exposure into fresh air.
- SKIN:** Remove contaminated clothing. Wash skin twice with soap and water. If irritation develops and persists, consult a physician.
- INGESTION:** If conscious, dilute with 4 to 8 ounces of water and seek immediate medical attention. DO NOT induce vomiting.
- INHALATION:** Remove to fresh air immediately. Use oxygen if there is difficulty breathing or artificial respiration if respiration has stopped. Do not leave victim unattended. Seek immediate medical attention if necessary.

SECTION VIII -- PRECAUTIONS FOR SAFE USE AND HANDLING

- SPILL PROCEDURES:** Remove all ignition sources. Ventilate area and avoid breathing vapors. For large spills, isolate area and deny entry. If possible, contain as a liquid for possible re-refining. Absorb onto sand or other absorbent material. Shovel into closable container for disposal. Wear protective equipment specified below. Contain away from surface waters and sewers.
- WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State, and local regulations. Contact Safety-Kleen regarding recycling.
- HANDLING PRECAUTIONS:** Avoid contact with eyes, skin or clothing. Use in well ventilated area and avoid breathing vapors or mists. Keep away from heat, sparks and open flames.
- SHIPPING AND STORING PRECAUTIONS:** Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, grind or expose containers to flame or other sources of ignition. Keep container tightly closed when not in use and during transport.

PERSONAL HYGIENE:

Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco products. Launder contaminated clothing and clean protective equipment before reuse.

SECTION IX -- CONTROL MEASURES

VENTILATION:

Provide local exhaust or general dilution ventilation as determined necessary to maintain concentrations of vapors or mists below applicable exposure limits. Where explosive mixtures may be present, systems safe for such locations should be used.

PROTECTIVE GLOVES:

Use nitrile or neoprene gloves to prevent contact with skin.

EYE PROTECTION:

Where there is likelihood of spill or splash, wear chemical goggles or faceshield. Contact lenses should not be worn.

RESPIRATORY PROTECTION:

Use NIOSH-approved respiratory protective equipment when concentration of vapors or mists exceeds applicable exposure limit. Depending on the airborne concentration, use a respirator or gas mask with appropriate cartridges and canisters (for organic vapor with mist prefilter). A self-contained breathing apparatus (SCBA) is required for large spills and emergencies. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134 - Respiratory Protection.

OTHER PROTECTIVE EQUIPMENT:

Wear solvent-resistant boots, apron or other protective clothing where spills and splashes are possible. A source of clean water should be available in work areas for flushing the eyes and skin.

SECTION X -- OTHER REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: Petroleum Naphtha

DOT CLASS: Combustible Liquid

DOT NUMBER: UN 1255

SARA TITLE III: Product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Toxic constituents are listed with an asterisk in Section II of this Material Safety Data Sheet.

Product poses the following physical and/or health hazard(s) as defined in 40 CFR 370.3 (Sections 311, 312 of SARA Title III):

Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

SECTION XI -- PREPARATION INFORMATION

PREPARED BY: SK Product Review Committee **FORM NO.** 900-14-001

ORIGINAL ISSUE DATE: July 20, 1989 **REVISED:** March 12, 1990 **SUPERSEDES:** July 20, 1989

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet applies to the material as supplied to the user.

(014776-01480 - 40089972-60025055)

DATE OF ISSUE
09/15/89

SUPERSEDES
05/12/89

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS
N/A

TRADE NAME & SYNONYMS
BOMBER AEROSOL

CHEMICAL FAMILY
AROMATIC/ALIPHATIC SOLVENTS

FORMULA
X<-MIXTURE

MANUFACTURERS NAME:
DYNA SYSTEMS A PARTSMaster CO DIV OF NCH
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)
P.O. BOX 899328
DALLAS TEXAS 75289-9328

PREPARED BY:
KEVIN UML/T.S. CHEMIST

PRODUCT CODE NUMBER
60025055

EMERGENCY TELEPHONE NUMBER
214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV*	PEL*	CAS#
ALIPHATIC PETROLEUM DISTILLATE	COMB.	100 PPM 1.	500MG/M3 1	8008-20-8
AROMATIC PETROLEUM DISTILLATE	COMB.	100 PPM 2.	400MG/M3 2	8030308
OCTYLPHENOXYPOLYETHOXYETHANOL	EYE IRR.	NOT EST.	NOT EST.	9038195
PROPANE	FLAMM.	NOT EST.	NOT EST.	74-98-6
ISOBUTANE	FLAMM.	NOT EST.	NOT EST.	75-28-5
NAPHTHALENE	COMB/TOX	10PPM 1.	50MG/M3 1.	90-20-3

BOMBER AEROSOL

SECTION III - PHYSICAL DATA

PAGE : 02

BOILING PT. (FAHRENHEIT)	N/A	SPEC GRAVITY (H2O=1)	:0.845
VAPOR PRESSURE (MM HG)	N/A	COLOR	AMBER
VAPOR DENSITY (AIR=1)	N/A	ODOR	PETROLEUM DISTILLATE
PH @ 100%	N/A	CLARITY	TRANSPARENT
PERCENT VOLATILE BY VOLUME (%)	100	EVAPORATION RATE (BU AC = 1)	< 0.05
SOLUBILITY IN WATER	EMULSION		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED) 130 F. T.C.C.	FLAMMABLE LIMITS	LEL	UEL
		1.0	N/A
EXTINGUISHING MEDIA X<-FOAM	"ALCOHOL" X<-FOAM	X<-CO2	X<-OTHER
		X<-CHEMICAL	X<-WATER SPRAY

SPECIAL FIRE FIGHTING PROCEDURES

SPRAY WATER ON AEROSOL CONTAINERS TO COOL THEM AND AVOID RUPTURING AEROSOL CONTAINER.

UNUSUAL FIRE & EXPLOSION HAZARDS

FLAME EXTENSION: 36"
BURNBACK: 2 - 3"

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

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)
SEVERE IRRITATION TO EYES, REDNESS, TEARING AND BLURRED VISION CAUSES

BOMBER AEROSOL

(CONTINUED)

SECTION IX - SPECIAL PROTECTION INFORMATION PAGE : 05

RESPIRATORY PROTECTION
TYPICAL USE OF THE PRODUCT DOES NOT REQUIRE THE USE OF A RESPIRATOR. USE
NIOSH APPROVED MASK IF MISTING. IN CASE OF AN EMERGENCY, THE FOLLOWING
RESPIRATOR IS RECOMMENDED:
1000 PPM: CCROVF
5000 PPM: GMOV/SAF/SCBAF
10,000 PPM: SAF = PD, PP, CF
ESCAPE: GMOV/SCBA

PROTECTIVE GLOVES
NEOPRENE OR NITRILE RUBBER FOR PROLONGED OR RE-
PEATED SKIN CONTACT.

EYE PROTECTION
CHEMICAL GOGGLES SHOULD BE WORN DEPENDING ON
SEVERITY OF EXPOSURE.

OTHER PROTECTION
APRON SHOULD BE WORN DEPENDING ON SEVERITY OF
EXPOSURE.

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE
120 F. <--MAX 32 F <--MIN | INDOOR | HEATED | REFRIGERATED | OUTDOOR
X

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
KEEP AWAY FROM IGNITION SOURCES. CONTENTS UNDER
PRESSURE. STORE AT MODERATE TEMPERATURES.

OTHER PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN.
READ ENTIRE LABEL BEFORE USE.
NEVER POINT SPRAY HEAD TOWARD FACE.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME C. A. S. NUMBER UPPER % LIMIT
NAPHTHALENE 91-20-3 5

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
1986 AND 40 CFR PART 372.

IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT
FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
JANITORIAL WORK OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS
MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND
LABELED FOR MAINTAINING MOTOR VEHICLES.

BOMBER AEROSOL

(CONTINUED)

SECTION XI - REGULATORY INFORMATION

PAGE : 06

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

APPLICABLE REGULATIONS
<--49 CFR <--IMCO <--TARIFF 8 D <--IATA <--MILITARY AIR (AFR 71-4)

SHIPPING NAME

HAZARD CLASS | ID NUMBER | REPORT QTY

LABELS | LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER | NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

1. VENDOR'S MSDS.
2. NIOSH POCKET GUIDE TO CHEMICAL HAZARDS, 1978.
3. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 6TH EDITION,
N. IRVING SAX.
4. NIOSH REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, 1982.
(CONTINUED FROM SECTION VI)
APPLICATIONS GREATLY REDUCES TUMOR FORMATION. THESE STUDIES DEMONSTRATE THE
EFFECTIVENESS OF CLEANSING THE SKIN AFTER CONTACT. POTENTIAL RISKS TO HU-
MANS CAN BE MINIMIZED BY OBSERVING GOOD WORK PRACTICE AND PERSONAL HYGIENE
GENERALLY RECOMMENDED FOR PETROLEUM PRODUCTS.

PART VI ATTACHMENT (Continued)
 Materials Stored or Used at the Facility
 Discharge Plan Application
 HOMCO International, Inc.
 Farmington, New Mexico
 April, 1992

Name	General Makeup or Brand Name	Solids(S) or Liquids(L)	Type of Container	Estimated Volume Stored	Location
8. Others (continued)					
<i>Paint (continued)</i>					
	Crown Paint Company				
	HOMCO Yellow (water base enamel)	L	1-Gallon Can	20 Cans	Paint Room*
	Miscellaneous Brands				
	MC817 Machine Red EN (Paint)	L	1-Gallon Bucket	1 to 2 Gallons	Paint Room*
	Paint, Acrylic, Enamel, and Prot. Coatings	L	1-Gallon Can	8 Cans	Paint Room*
<i>Lubricants</i>	WD-40	L	1-Gallon Jug	2 Jugs	Shop*
	Almagord 3752	S	14.5-Ounce Tubes	106 Tubes	Shop*
	ZEP Dry Moly	Aerosol	20-Ounce Cans	24 Cans	Shop*
	MD-113 Dry Moly Film Lube	Aerosol	12-Ounce Cans	24 Cans	Shop*
	E-Z Cut	Aerosol	12-Ounce Cans	6 Cans	Shop*
	LPS II	Aerosol	12-Ounce Cans	1 Can	Shop*
	LPA II	Aerosol	12-Ounce Cans	12 Cans	Shop*
	AS-201	Aerosol	12-Ounce Cans	12 Cans	Shop*
<i>Oxidizers</i>	Bromine Trifluoride	S	Steel Cylinders	50 Cups	Wireline Building

* - Stored in a fire-proof metal cabinet.

PART VI ATTACHMENT (Continued)
 Materials Stored or Used at the Facility
 Discharge Plan Application
 HOMCO International, Inc.
 Farmington, New Mexico
 April, 1992

<i>Name</i>	General Makeup or Brand Name	Solids(S) or Liquids(L)	Type of Container	Estimated Volume Stored	Location
<i>8. Others (continued)</i> <i>Fuels, Fuel Supplements, and Oils</i>	Regular Gasoline	L	5-Gallon Metal Cans	20-Gallons	Outside
	CHEVRON SAE 30	L	55-Gallon Drum	55-Gallons	North Wall of Shop
	DELO 400 Plus	L	1-Gallon Plastic Jugs	8-Gallons	North Wall of Shop
	Heavy Duty Motor Oil SAE 30	L	5-Gallon Buckets	25-Gallons	North Wall of Shop
	R&O 32 Hydraulic Oil	L	55-Gallon Drum	55-Gallons	North Wall of Shop
	R&O 46 Hydraulic Oil	L	55-Gallon Drum	55-Gallons	North Wall of Shop
	PN-105	Aerosol	16-Ounce Cans	12 Cans	Shop
	Propane Fuel	Gas	14-Ounce Cans	3 Cans	Shop*
<i>Miscellaneous</i>	BP-117 Battery Cleaner	Aerosol	12-Ounce Cans	1 Can	Paint Room*
	BP-118 Battery Coating	Aerosol	12-Ounce Cans	1 Can	Paint Room*
	SHY-NEE Glass Cleaner	L	18-Ounce Spray Cans	12 Cans	Shop*

* - Stored in a fire-proof metal cabinet.

VII. Description of present sources and quantities of effluent and waste solids generated at the facility.

The two-page attachment to Part VII summarizes the sources and quantities of effluent and waste solids generated at the facility.

PART VII ATTACHMENT
Sources and Quantities of Effluent and Waste Solids Generated at the Facility
Discharge Plan Application
HOMCO International, Inc.
Farmington, New Mexico
April, 1992

Waste Type	General Composition or Source	Volume Per Month	Major Additives
<i>1. Truck Wastes</i>	NA	NA	NA
<i>2. Truck, Tank, and Drum Washing</i>	Steam Cleaning Effluent (from washing of trucks)	6,000 to 8,000 Gallons	Car Wash Detergent (Classic Pink HpH)
<i>3. Steam Cleaning of Parts, Equipment, and Tanks</i>	Hydrocarbons (from cleaning of parts and equipment)	9,000 to 12,000 Gallons	NA
<i>4. Solvent/Degreaser Use</i>	Saftey Kleen (solvent from cleaning of small parts and inspection of pipe)	10 Gallons	NA
	Bomber Aerosol (solvent from cleaning of small parts)	2 16-ounce Cans	NA
<i>5. Spent Acids, Caustics, or Completion Fluids</i>	NA	NA	NA
<i>6. Waste Slop Oil</i>	Oil Recycled from Waste Water Treatment System	1/2 Gallon	NA
<i>7. Waste Lubrication and Motor Oils</i>	Motors	15 Gallons	NA
<i>8. Oil Filters</i>	Vehicles	4 Filters	NA
<i>9. Solids and Sludges from Tanks</i>	Sand, Grit and Hydrocarbons in Sumps	55 Gallons	NA

NA - Not Applicable

PART VII ATTACHMENT (CONTINUED)
Sources and Quantities of Effluent and Waste Solids Generated at the Facility
Discharge Plan Application
HOMCO International, Inc.
Farmington, New Mexico
April, 1992

Waste Type	General Composition or Source	Volume Per Month	Major Additives
10. <i>Painting Wastes</i>	Water base enamel	10 Gallons	none
11. <i>Sewage</i>	NA	NA	NA
12. <i>Other Waste Liquids</i>	NA	NA	NA
13. <i>Other Waste Solids</i>	Empty detergent and soap, paint, lubricant, fuel, fuel supplement and oil containers	5	NA
	Empty aerosol cans of solvent, paint and miscellaneous materials	5	NA
	Empty oil drums	5	NA

NA - Not Applicable

VIII. Description of current liquid and solid waste collection/storage/disposal procedures.

A. Summary Information

For each source listed in Part VII, summary information about on-site collection, storage and disposal systems is provided in the one-page attachment to this section.

B. Collection and Storage Systems

1. Collection and storage systems named in Part A of this section

a. Truck Washing and Steam Cleaning of Parts and Equipment

The HOMCO Wireline Services building contains a water pump/hot water heater system which is used to wash logging tools, wireline trucks and passenger vehicles. Significantly dirtier equipment (e.g. blowout preventers, drill collars, bits, etc.) is steam cleaned in the main shop located in the HOMCO Fishing Tool Operations building. A Water Maze oil/water separator is installed in the Fishing Tool building. The separator processes and recycles wash water used for steam cleaning operations in the Fishing Tool building. Industrial waste water from the Wireline building is routed via 2-inch diameter polyvinylchloride pipe to the Fishing Tool building. Estimated total water usage for cleaning operations conducted in both buildings is 15,000 to 20,000 gallons per month.

The collection system consists of subgrade concrete sumps located in the Wireline and Fishing Tool buildings. The sumps in the Fishing Tool building were installed in 1992 and include secondary containment and leak detection. The sump in the Wireline building was installed when the facility was constructed in 1974. It does not have secondary containment or leak detection. Concrete floors in both buildings slope towards these sumps. The sump in the Wireline building is connected to the Fishing Tool sump by the 2-inch diameter, Schedule 40, polyvinylchloride transfer line. The waste water collected in the sump in the Fishing Tool building is then pumped to the Watermaze Recycling Separator and reused by Fishing Tool personnel for steam cleaning. A schematic diagram of the waste water collection system, including the sumps, floor drains and Watermaze Recycling Separator is presented in Figure 3. Specifications for these systems are presented in C.1.a (6) and C.1.a (7) of this section.

b. Solvent/Degreaser Use

Pipe threads are cleaned with Safety-Kleen products prior to steam cleaning. Catch trays are used to contain solvent drips. Pipe, drill collar and sub inspections also use Safety-Kleen products and catch trays to control the solvents used. Thread cleaning and pipe inspections take place at one of two sets of permanent inspection racks located near the northeast margin of the Fishing Tool building (Figure 2). Sub inspection occurs on the cement apron adjacent to the northwest corner of the Fishing Tool building.

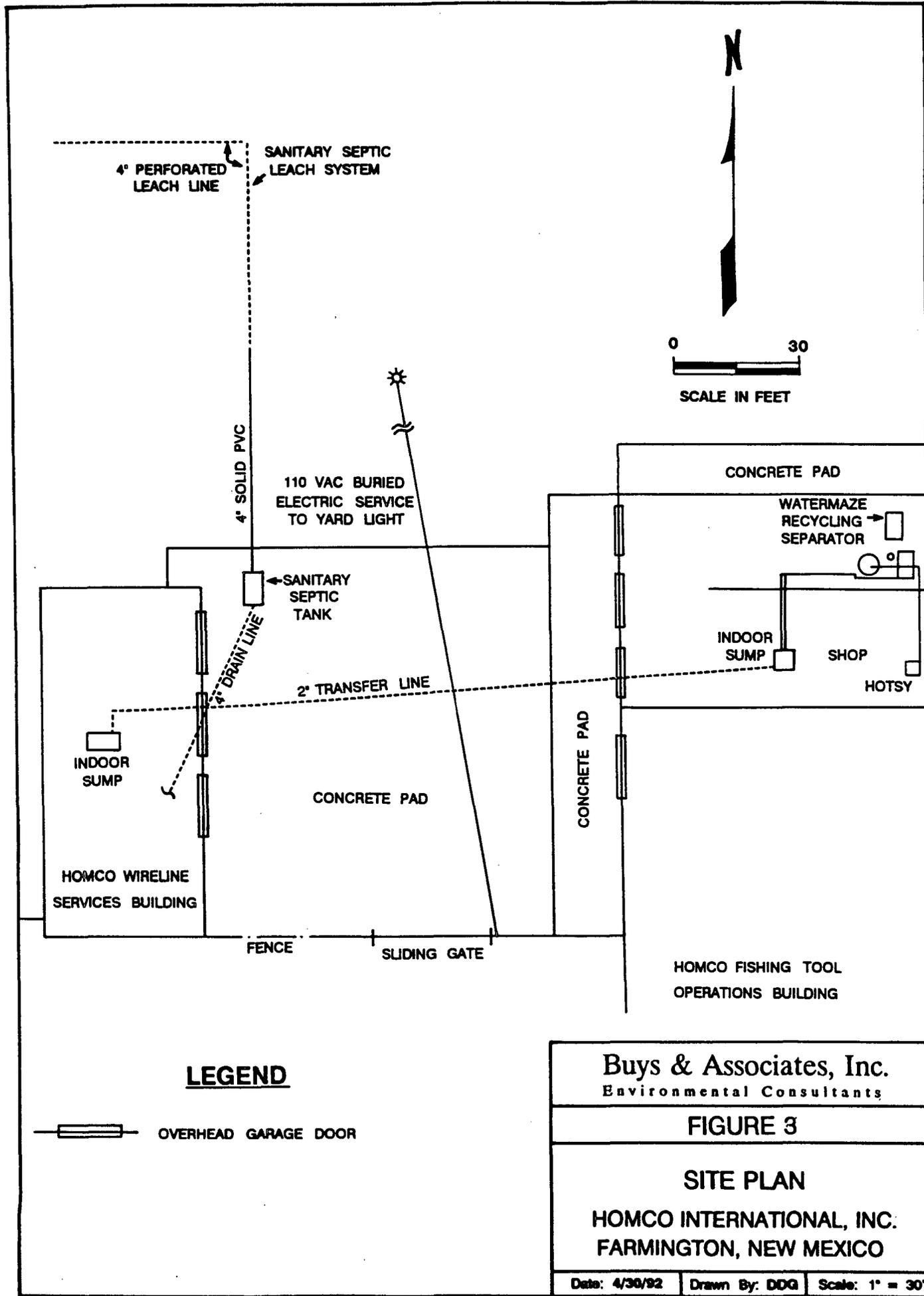
PART VIII ATTACHMENT
Summary Description of Existing Liquid and Solid Waste Collection and Disposal
Discharge Plan Application
HOMCO International, Inc.
Farmington, New Mexico
April, 1992

Waste Type	Tank(T)/ Drum(D)	Floor Drain(F)/ Sump(S)	Pits- Lined(L) or Unlined(U)	Onsite Injection Well	Leach Field	Offsite Disposal
1. <i>Truck Wastes</i>	NA	NA	NA	NA	NA	NA
2. <i>Truck, Tank, and Drum Washing</i>	NA	F*, S (Concrete Lined)*	NA	NA	NA	YES*
3. <i>Steam Cleaning of Parts, Equipment, and Tanks</i>	NA	F*, S (Concrete Lined)*	NA	NA	NA	YES*
4. <i>Solvent/Degreaser Use</i>	D*	NA	NA	NA	NA	YES*
5. <i>Spent Acids, Caustics, or Completion Fluids</i>	NA	NA	NA	NA	NA	NA
6. <i>Waste Slop Oil</i>	T*	NA	NA	NA	NA	YES*
7. <i>Waste Lubrication and Motor Oils</i>	T*	NA	NA	NA	NA	YES*
8. <i>Oil Filters</i>	Dumpster*	NA	NA	NA	NA	YES*
9. <i>Solids and Sludges from Tanks</i>	NA	S (Concrete Lined)*	NA	NA	NA	YES*
10. <i>Painting Wastes</i>	NA	NA	NA	NA	NA	NA
11. <i>Sewage</i>	NA	NA	NA	NA	YES**	NA
12. <i>Other Waste Liquids</i>	NA	NA	NA	NA	NA	NA
13. <i>Other Waste Solids</i>	Dumpster*	NA	NA	NA	NA	YES*

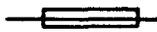
NA - Not Applicable (this method of disposal is not used for the waste type listed).

* - Details of solid waste collection and disposal and off-site disposal are presented in the text portion of this section.

** - Sewage is not mixed with industrial wastes.



LEGEND

 OVERHEAD GARAGE DOOR

Buy's & Associates, Inc.
Environmental Consultants

FIGURE 3

SITE PLAN

HOMCO INTERNATIONAL, INC.
FARMINGTON, NEW MEXICO

Date: 4/30/92 Drawn By: DDG Scale: 1" = 30'

Concrete slabs have been installed to contain any overspray, spills or drips not collected by catch basins used in the cleaning and inspection process. These slabs are sloped at the margins to prevent precipitation which contacts residual solvent drips from leaving the facility. One concrete slab is located along the outside margin of each pipe rack (the permanent racks depicted on Figure 2). Each slab is 10 foot wide and 60 foot long.

Small parts are washed in Safety-Kleen sinks equipped with catch trays. Parts washing takes place within the main shop of the HOMCO Fishing Tool Operations building (Figure 2).

c. Waste Slop Oil, Lubricants and Motor Oils

All waste oils are stored in a 1,000-gallon, above-ground tank located in the northern margin of the facility (Figure 2). The tank is not pressurized; waste oils are transferred directly to it. The tank is not bermed.

d. Oil Filters

Oil filters are placed in an on-site dumpster for collection and final disposal. The location of the dumpster is depicted in Figure 2.

e. Solids and Sludges

Solids and sludges are generated by truck washing and steam cleaning of parts and equipment. These solids and sludges collect in the sumps located in the HOMCO Fishing Tool Operations and Wireline Services buildings. Specifications for the sumps are presented in B.1.a and C.1.a (6) of this section.

f. Painting Wastes

Water base enamel is used within the shop of the HOMCO Fishing Tool Operations Building.

g. Other Waste Solids

Empty detergent, soap, paint, lubricant, fuel, fuel supplement and oil containers and empty aerosol cans of solvent, paint and miscellaneous materials are placed in an on-site dumpster (Figure 2) for collection and final disposal. Empty drums that contained lubricating oils are collected by vendors who sold the products.

2. Tankage and Chemical Storage Areas

a. Storage Areas Within Buildings

Detergents, soaps, solvents, degreasers, paints, lubricants, oxidizers, fuels, fuel supplements, oils and miscellaneous materials specified in Section VI and VII are stored inside the shop or paint room in the Fishing Tool Operations building or in the Wireline Services building. These buildings are floored with concrete. Spills or leaks which flow across the concrete floors and into the concrete sumps would be processed by the waste water treatment circuit described in B.1.a of this section.

b. Storage Areas Adjacent to Buildings

Regular gasoline (four 5-gallon cans) is stored adjacent to the northwest side of the HOMCO Fishing Tool Operations building on a cement apron. The apron is sloped to promote drainage away from the building and onto the concrete pad that lies between the Fishing Tool Operations and Wireline Services buildings (Figure 2). No other fluids are stored adjacent to the buildings.

c. Waste Oil Storage Area

All waste oils are stored in a 1,000-gallon, above-ground tank located in the northern margin of the facility (Figure 2). The tank is not pressurized; waste oils are transferred directly to it. The tank is not bermed.

3. Facilities over 25 years of age

The facility was constructed and began operation in 1974. The facility is 18 years of age and is not subject to the requirements of this subsection.

C. Existing Effluent and Solids Disposal

1. On-Site Facilities

a. Description of each facility

(1) Surface Impoundments

No surface impoundments are in use at the facility. The facility is not subject to the requirements of this subsection.

(2) Leach Fields

All industrial leach fields at the site have been clean-closed via excavation and off-site disposal. This work was completed in November, 1991. No industrial leach fields are in use at the facility and the facility is not subject to the requirements of this subsection.

(3) Injection Wells

No injection wells are in use at the facility. The facility is not subject to the requirements of this subsection.

(4) Drying Beds or Other Pits

No drying beds or other pits are in use at the facility. The facility is not subject to the requirements of this subsection.

(5) Solids Disposal

No on-site disposal of solids occurs at the facility. The facility is not subject to the requirements of this subsection.

(6) Floor Drains (Sumps)

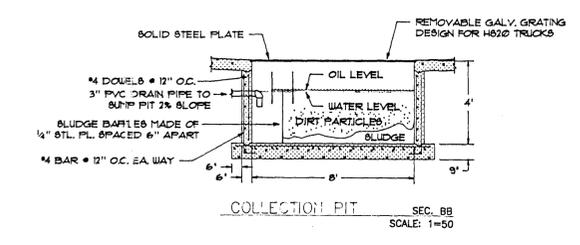
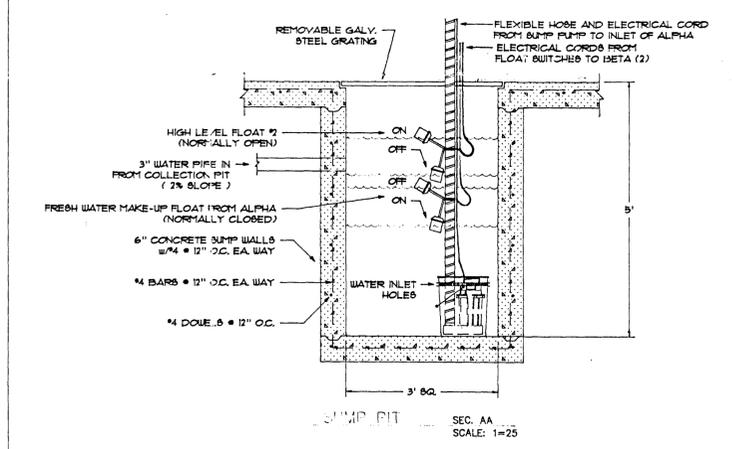
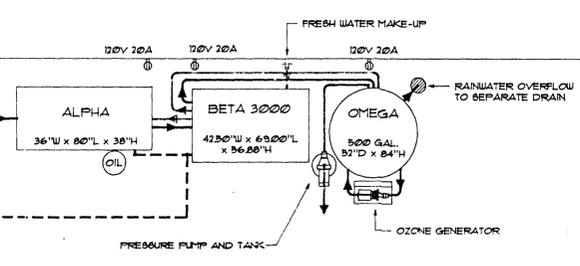
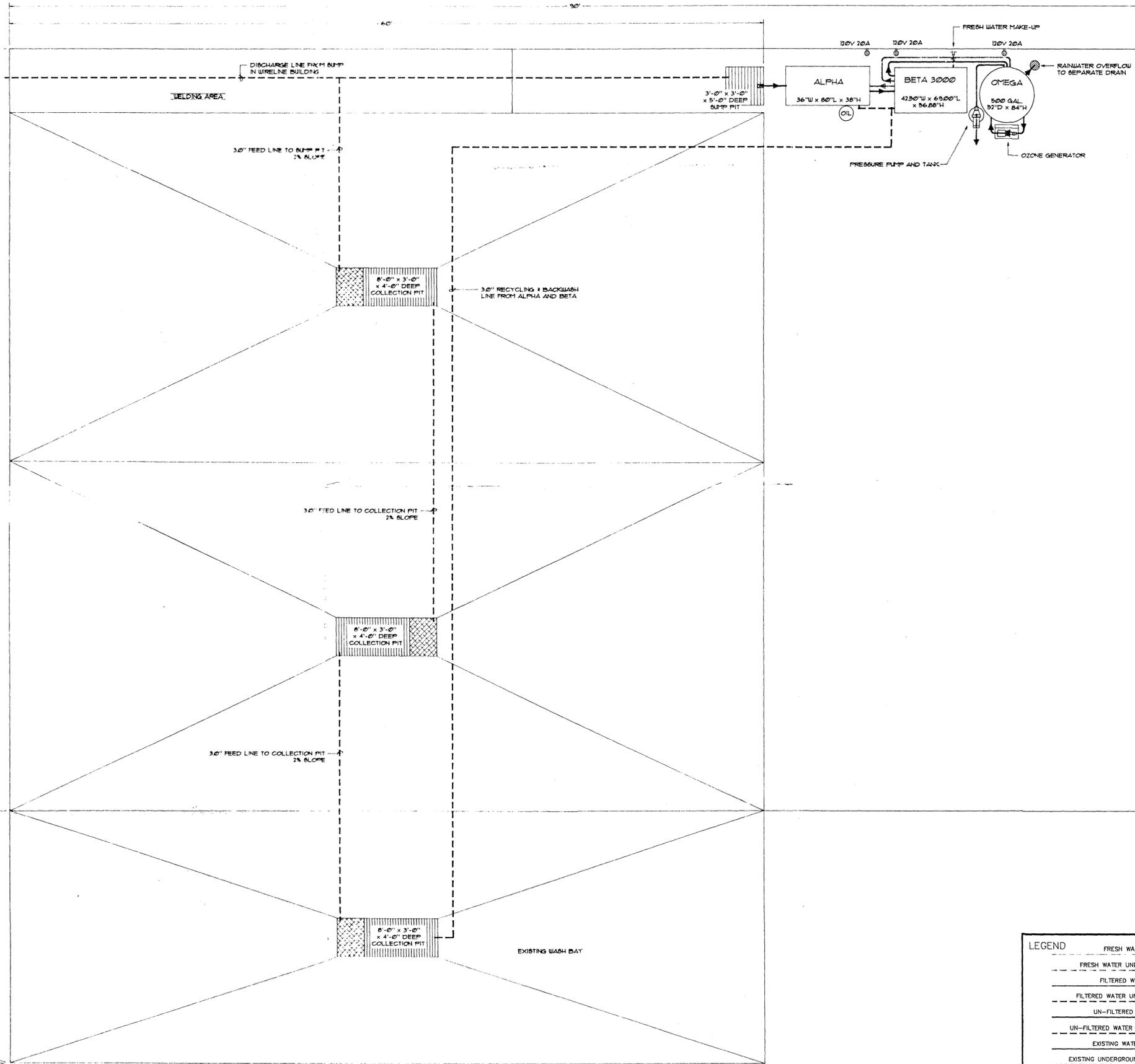
Technical specifications and a schematic diagram for the indoor sumps within the HOMCO Fishing Tool Operations Building are enclosed as Figure 4.

(7) Waste Water Treatment

Waste water is collected in the sumps described in the preceding section and pumped to the Watermaze Recycling Separator. Treated water is reused for steam cleaning. No waste water is discharged to grade. Technical specifications and a schematic diagram for the Watermaze separator equipment are enclosed as Figure 5.

b. Further information for leach fields, pits and impoundments having single liners

No leach fields, pits or surface impoundments are in use at the facility. The facility is not subject to the requirements of this subsection.



1. ALL INFORMATION SHOWN IS FOR REFERENCE ONLY AND IS INTENDED AS A GUIDELINE TO BE USED BY A PROFESSIONAL ENGINEER OR ARCHITECT IN PREPARING A FINAL DESIGN TO MEET THE SPECIFIC SITE REQUIREMENTS.
 2. WATER MAZE SYSTEM SHOULD BE ENCLOSED WITH PROPER FREEZE PROTECTION

WATER MAZE
 a division of LANDA INC.

CHKD BY:
BSE

LEGEND	
---	FRESH WATER
---	FRESH WATER UNDERGROUND
---	FILTERED WATER
---	FILTERED WATER UNDERGROUND
---	UN-FILTERED WATER
---	UN-FILTERED WATER UNDERGROUND
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND WATER LINE

LANDA INC		Portland, Oregon	
CUSTOMER NAME		LOCATION	
HOMCO INT.		FARMINGTON, NM.	
SCALE 1-50	MATERIAL	DRAWING NUMBER	
DATE 04-09-91	SEE DETAILS	WM233A	
DESCRIPTION		DRAWN BY	
WASHPAD LAYOUT		T. HARRIS	

2. Off-Site Disposal

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

Waste water generated from truck washing and steam cleaning of parts and equipment is recycled on site and reused. Waste water is removed from the treatment system on a regular basis (approximately 3,500 gallons every 2 months), disposed and replaced with fresh water. The waste water is transported by truck to a disposal facility approved by the New Mexico Oil Conservation Division (NMOCD). At this time, the City of Farmington Waste Water Treatment Plant is utilized for disposal. The City of Farmington Waste Water Treatment Plant is located at 1395 S. Lake Street, Farmington, New Mexico.

b. Solvents and Degreasers

Solvents are used to clean pipe threads prior to steam cleaning. Thread cleaning takes place at one of the two sets of permanent inspection racks located near the east margin of the HOMCO Fishing Tool Operations building (Figure 2). Solvents that are used are collected in approved receptacles and stored in the shop of the HOMCO Fishing Tool Operations Building. Spent solvent is removed from the facility by truck, replaced with fresh solvent and recycled by the Safety Kleen Corporation. This process occurs approximately every 8 weeks. The Safety Kleen Corporation recycling facility is located at 1722 Cooper Creek Road, Denton, Texas 76201.

Solvents are used in the pipe, drill collar and sub inspection processes. These processes are not conducted on a routine basis. When required, pipe and drill collar inspections are conducted by vendors at the pipe inspection racks (the permanent racks depicted on Figure 2). Sub inspection is conducted on the cement apron adjacent to the northwest corner of the Fishing Tool building. Frontier Inspection Service (6911 Drinen Lane, Farmington, New Mexico) is the pipe inspection vendor. Tommy's Drill Collar Inspection Service (1308 Camino Sol, Farmington, New Mexico) is the vendor who inspects drill collars and subs. Solvents used in pipe inspections are collected in approved receptacles by the vendor and removed from the HOMCO facility at the completion of the process. Solvents used in drill collar and sub inspections are collected in approved receptacles by the vendor and relinquished to HOMCO for disposal.

Solvents used in parts washers and drill collar and sub inspections are collected and stored in approved receptacles in the shop of the HOMCO Fishing Tool Operations Building. Spent solvent is removed from the facility by truck, replaced with fresh solvent and recycled by the Safety Kleen Corporation. This process occurs approximately every 8 weeks. The Safety Kleen Corporation recycling facility is located at 1722 Cooper Creek Road, Denton, Texas 76201.

c. Waste Slop Oil, Waste Lubrication and Motor Oils

Waste oils are stored in an above-ground tank described in B.1.c and B.2.c of this section. These oils are trucked to and recycled by Mesa Oil (4701 Broadway SE, Albuquerque, New Mexico 87105) or Approved Oil Service (4531 Broadway SE, Albuquerque, New Mexico 87105) every 4 to 6 months.

d. Oil Filters

Oil filters are placed in an on-site dumpster (Figure 2) and collected by truck for final disposal. Waste Management of Four Corners (101 Spruce St., Farmington, New Mexico 87401) is the hauling company which transports the waste. The waste is disposed at an NMOCD-approved disposal facility. At present, the San Juan County Landfill is utilized for this purpose. The landfill is located at County Road 3140, #70, Aztec, New Mexico 87401 (on Crouch Mesa between Farmington and Aztec). A copy of the Waste Management of Four Corners and San Juan County Landfill approval for disposal of these shipped wastes is attached. Waste Management of Four Corners annually verifies the composition of the waste stream.

e. Solids and Sludges

Solids and sludges are removed from sumps by vacuum truck and transported to the Envirotech Inc. landfill for disposal. The Envirotech Inc. landfill is a NMOCD-approved facility. The Envirotech Inc. office is located at 5796 U.S. Highway 64, Farmington, New Mexico 87401. The landfill facility is located approximately 11 miles south of Bloomfield, New Mexico. A copy of the Envirotech Inc. approval for disposal of these shipped wastes is attached.

f. Other Waste Solids

Empty detergent, soap, paint, lubricant, fuel, fuel supplement and oil containers and empty aerosol cans of solvent, paint and miscellaneous materials are placed in an on-site dumpster and collected by truck for final disposal. Waste Management of Four Corners (101 Spruce St., Farmington, New Mexico 87401) is the hauling company which transports the waste. The waste is disposed at the San Juan County Landfill located at County Road 3140, #70, Aztec, New Mexico 87401 (on Crouch Mesa between Farmington and Aztec). A copy of the Waste Management of Four Corners and San Juan County Landfill approval for disposal of these shipped wastes is attached. Waste Management of Four Corners annually verifies the composition of the waste stream.

Empty oil drums are reclaimed by the vendors who sold the products to the HOMCO facility.

Waste Management of Four Corners

101 Spruce
Farmington, NM 87401
505/327-6284

SERVICE AGREEMENT
NON-HAZARDOUS WASTE

CUSTOMER NUMBER **6000746**

CUSTOMER'S BILLING NAME **Homco International**
 CUSTOMER'S BILLING ADDRESS **P.O. Box 2344**
 CITY, STATE, ZIP CODE **Farmington, NM 87499**
 CUSTOMER CONTACTS _____ TELEPHONE NO. _____
 SERVICE LOCATION _____
 SERVICE ADDRESS **Bloomfield Hwy**
 CITY, STATE, ZIP CODE _____ TELEPHONE NO. _____
 BANK REFERENCE _____ CONTACT _____ TELEPHONE NO. _____

NEW ACCOUNT \$ **90.00**
 HOW OBTAINED _____
 CHANGE \$ _____
 TYPE OF CHANGE _____
 CANCEL \$ _____
 REASON _____
 SHORT TERM \$ _____
 CUSTOMER P.O. _____
 TELEPHONE NO. _____

BILLING

DIVISION

CONTAINER SHOP DEL. P.U.

M.P. S.M.S. S.F.P.P.

CONTAINER SPECIFICATIONS

QUANTITY	CAPACITY (CU. YDS.)	OPEN	CLOSED	FRONT	REAR	OTHER	CASTERS
1	6			X			

FREQUENCY OF SERVICE

ON CALL
 PICK UP(S) PER WEEK
 EFFECTIVE SERVICE DATE **3/28/91**
 EFFECTIVE DISC. DATE _____
 CUSTOMER OWNED
 WMI OWNED
 EQUIP. PROMISE DATE _____
 P.U. DEL. DATE DELIVERED _____
 CONTRACT REVIEW DATE _____

SCHEDULE OF CHARGES

SERVICE CHARGE PER MONTH \$ **90.00**
 ADDITIONAL CHARGE PER YARD OVER CONT. SPEC. \$ _____
 CONTAINER USE CHARGE \$ _____
 COMPACTOR USE CHARGE \$ _____
 SERVICE CHARGE PER
 YARD \$ _____
 LOAD SIZE \$ _____
 OR SIZE \$ _____
 LIFT SIZE \$ _____
 SIZE \$ _____
 *INDICATE COMPACTOR LOAD WITH A "C"
 PREVIOUS SVC \$ _____
 PRESENT SVC \$ _____

	MON	TUE	WED	THUR	FRI	SAT	SUN	TOT
NEW				X				
OLD								
ROUTE								

OFFICE USE ONLY

(OFFICE USE ONLY)
 640
 UPDATE STREET LISTING
 SALE SUMMARY
 TICKET TAB
 TICKET PLATE
 CUST. FILE
 COMPACTOR FILE
 ROUTE CARD

SPECIAL INSTRUCTIONS



MISCELLANEOUS DATA FOR "640" - LINE 50

THE TERMS AND CONDITIONS ON REVERSE SIDE ARE PART OF THE AGREEMENT.

CUSTOMER
J. J. McCall
 AUTHORIZED SIGNATURE

CONTRACTOR
Carmy McBrath
 REPRESENTATIVE SIGNATURE

327-539

CONTRACTOR'S DEFINITION OF SPECIAL WASTE

"Special Waste" means Type A or Type B Special wastes as defined below.

WASTE PROFILE CODE

"Type A Special Waste" means any waste, from a commercial or industrial activity meeting any of the following descriptions.

- ___ a. A containerized waste (e.g., a drum, portable tank, lugger box, roll-off box, pail, bulk tanker, etc.) listed in b.-g. below.
- ___ b. A waste containing free liquids.
- ___ c. A sludge waste.
- ___ d. A waste from an industrial process.
- ___ e. A waste from a pollution control process.
- ___ f. Residue and debris from the cleanup of a spill of a chemical substance or commercial product or a waste listed in a.-e. or g.
- ___ g. Contaminated residuals, or articles from the cleanup of a facility generating, storing, treating, recycling, or disposing of wastes listed in a.-f.

Incidental Amounts of Special Waste

The Contractor recognizes that many customers will produce some "Type B Special Waste," as defined below. Incidental quantities of "Type B Special Waste," do not require a Generator's Type B Special Waste Profile Sheet (Form WMNA-0089B) to be signed by the customer. However, the customer must identify the type and amount of Type B Special Wastes which will be provided to the Contractor in incidental amounts by completing the box in the lower right corner.

"Type B Special Waste" means any waste from a commercial or industrial activity meeting the descriptions which follow:

- ___ a. Friable asbestos waste from building demolition or cleaning; wall board, wall spray coverings, pipe insulation, etc. Nonfriable asbestos is not a special waste unless it has been processed, handled or used in such a way that asbestos fibers may be freely released. Asbestos-bearing industrial process waste is a "Type A Special Waste."
- ___ b. Commercial products or chemicals which are off-specification, outdated, unused or banned. Out-dated or off-specification, uncontaminated food or beverage products in original consumer containers are not included in this category, however, containers which once held commercial products or chemicals are included unless the container is empty. A container is empty when:
All wastes have been removed that can be removed using the practices commonly employed to remove materials from the type of container, e.g., pouring, pumping or aspirating, and an end has been removed (for containers in excess of 25 gallons), and no more than 1 inch (2.54 centimeters) of residue remains on the bottom of the container or inner liner, or no more than 3% by weight of the total capacity of the container remains in the container (containers \leq 110 gallons), or no more than 0.3% by weight of the total capacity of the container remains in the container (containers $>$ 110 gallons.) Containers which once held ACUTELY HAZARDOUS WASTES must be triple rinsed with an appropriate solvent or cleaned by an equivalent method. Containers which once held substances regulated under the Federal Insecticide, Fungicide, and Rodenticide Act must be empty according to label instructions or triple rinsed.
- ___ c. Untreated bio-medical waste - Any waste capable of inducing infection due to contamination with infectious agents from a bio-medical source including but not limited to a medical practitioner, hospital, medical clinic, nursing home, university medical laboratory, mortuary, taxidermist, veterinarian, veterinary hospital or animal testing laboratory. Sharps from these sources must be rendered harmless or placed in needle puncture proof containers. Residue from incineration of infectious wastes is a "Type A Special Waste."
- ___ d. Treated bio-medical wastes - Any wastes from a bio-medical source including but not limited to a hospital, medical clinic, nursing home, medical practitioner, mortuary, taxidermist, veterinarian hospital, animal testing laboratory, or university medical laboratory which has been autoclaved or otherwise heat treated or sterilized so that it is no longer capable of inducing infection. Any sharps from these sources must be rendered harmless or placed in needle puncture-proof containers.
- ___ e. Liquids and sludges from septic tanks, food service grease traps, or washwater and wastewaters from commercial laundries, laundromats and car washes unless these wastes are managed at commercial or public treatment works.
- ___ f. Chemical-containing equipment removed from service. Examples: filters, cathode ray tubes, lab equipment, acetylene tanks, fluorescent light tubes, etc.
- ___ g. Waste produced from the demolition or dismantling of industrial process equipment or facilities contaminated with chemicals from the industrial process. Chemicals or wastes removed or drained from such equipment or facility are "Type A Special Wastes."

CUSTOMER ACKNOWLEDGES THAT HE HAS READ THE FOREGOING DEFINITION AND HAS IDENTIFIED THE TYPES OF SPECIAL WASTES GENERATED, IF ANY, BY CHECKING THE APPLICABLE CATEGORIES ABOVE.

CUSTOMER:
Robert J. Mulla
AUTHORIZED SIGNATURE
DATE: 4/16/91

Form WMNA-0038AD (2/89) Waste Management of North America
White - WMNA Division Canary - Customer
Revised 5/90

LIST TYPE B WASTE CATEGORY AND AMOUNTS: <i>Empty Air Dried PAINT CANS</i>
<i>DRAINED OIL FILTERS 2-3 A MONTH</i>
<i>Air Dried PAINT FILTERS</i>
General Manager of WMNA Division concurs that the above amounts of "Type B Special Waste" are incidental to the load. Signature: <i>[Signature]</i>

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

April 15, 1992

Mr. Roger Covell
Homco International
P. O. Box 2344
Farmington, NM 87499

Re: Disposal of Homco Wash Bay Solids

Dear Mr. Covell:

As per our recent telephone conversation, Homco International requests definition as to the procedure of acceptance of wash bay solids.

The New Mexico Oil Conservation Division (NMOCD) requires a Toxicity Characteristic Leaching Procedure (TCLP) analysis be performed annually on waste streams of all NMOCD regulated facilities. If the analysis characterizes the waste as non-hazardous, Envirotech can dispose of and treat the waste at our Hilltop, New Mexico, Soil Remediation Facility.

Analysis of your waste stream was performed November 1, 1991, by Byes & Associates, and subsequently approved for acceptance at the remediation facility by Mr. Roger Anderson of NMOCD. This analysis and approval for acceptance is conditional on Homco continuing their operation substantially as in the past. Any major change in operating conditions that substantially alter the waste stream composition, will require a new TCLP analysis for characterization of the waste.

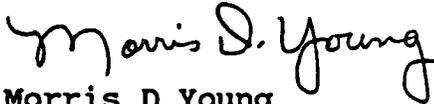
Envirotech is authorized to take only solids for disposal remediation. Any entrained free liquid has to be "stabilized" prior to acceptance. Stabilization is usually accomplished by blending dry granular soils with the waste stream to solidify any free liquids.

Stabilization can be performed either at the generators yard or at a holding area outside Envirotech's facility. Care needs to be taken by the waste transporter so that no materials are spilled or leaked on the roadways during transportation.

Page 2

We appreciate working with you on this matter. Please call if we can be of more help.

Sincerely,



Morris D Young
President

MDY/vlo
102V.DOC

cc; Mr. Denny Foust - Environmental Coordinator, NMOCD
Mr. John Kaszuba - Buyes & Associates
Mr. Verl Farnsworth - Envirotech Inc.

IX. Description of proposed modifications to existing collection, storage and disposal systems.

A. Modifications to existing collection and storage systems

1. Waste Oil Storage Area

The existing waste oil storage area does not meet the criteria of Section VIII B. A containment area bermed to contain a volume one-third more than the 1,000-gallon waste oil tank is required.

To satisfy this requirement, a concrete pad 18-foot by 17-foot in area with 1.5-foot berms will be installed. It will be constructed of 3,500 PSI concrete with #4 continuous rebar on the edges and 6/6-10/10 remesh in the slab. The bermed pad will have a containment volume of approximately 2,289 gallons. The pad is scheduled to be completed by June 30, 1992.

A 500-gallon diesel fuel tank will be installed in the containment area after it is constructed. This tank will be used to store diesel for forklifts and other equipment. Diesel will be dispensed at the tank.

The San Juan County Fire Marshall Office approved plans for installation of the tanks and containment system.

B. Closure of ponds, pits, lagoons, etc.

No leach fields, pits or surface impoundments are in use at the facility. The facility is not subject to the requirements of this subsection.

X. Routine inspection, maintenance and reporting to ensure compliance.

A. Routine Inspection Procedures for Disposal Units with Leak Detection

No disposal units that require leak detection are operated at the facility. The facility is not subject to the requirements of this subsection.

B. Ground-Water Monitoring for Leak Detection

No disposal units that require ground-monitoring as a leak detection method are operated at the facility. The facility is not subject to the requirements of this subsection.

C. Containment of Precipitation and Runoff

Truck washing, steam cleaning of parts and equipment, small parts washing with solvents and painting take place inside the HOMCO Wireline Services or Fishing Tool Operations buildings. Precipitation and runoff water do not come into contact with these process areas.

Solvents used in thread cleaning and equipment inspections are collected in approved receptacles. These receptacles are stored in the shop or removed by the vendors who perform the inspections. The concrete slabs at the inspection racks (Section IX.A.2) will prevent solvents from contacting the ground surface. These slabs are sloped at the margins to prevent precipitation which contacts residual solvent drips from leaving the facility.

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

A. Containment, Cleanup and Reporting Procedures

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

HOMCO personnel are present at the facility during business hours when operations are conducted. In addition, a HOMCO employee resides at the facility and is able to respond to emergencies after business hours and on weekends. Good, sound judgement will be used in containment, cleanup and reporting of any fires, leaks and spills that may occur.

Leaks, spills and drips will be handled as follows:

- Small spills on pavement will be absorbed with sorbent pads. The pads will be placed into drums for off-site disposal by an approved disposal contractor.
- Small spills on soil will be absorbed with soil and shoveled into drums for off-site disposal by an approved disposal contractor.
- Large spills will be contained with temporary berms. Free liquids will be pumped into drums. Any contaminated soil will be shoveled into drums for off-site disposal by an approved disposal contractor.

Reporting of leaks, spills and drips will be handled according to HOMCO corporate environmental policy. This policy is presented below.

REPORTING OF EMERGENCY INCIDENTS

HOMCO locations generally maintain small quantities of items which can create emergency incidents, such as caustics, explosives, compressed gases, diesel, gasoline, solvents, etc.

1. Notice of Discharge of Oil or a Hazardous Substance

EPA regulations require notification to the National Response Center in the event of a spill of oil or hazardous substances into navigable waters.

a) Oil Spill Definition

- 1) Violates applicable water standards.
- 2) Causes a sheen on the surface of the waters.

b) Hazardous Spill Definition

Spill amount is greater or equal to the "Reportable Quantity" established for that substance.

2. Transportation Related Incidents

Telephone notice of transportation related incidents involving hazardous materials must be made to the National Response Center (Telephone 800-424-8802) if any of the following occurs:

- a) Death of any person.
- b) Injury requiring hospitalization.
- c) Estimated damage of \$50,000 or more to the carrier and property.
- d) A critical situation such as continuing danger to life.
- e) A hazardous substance is discharged (reportable quantity) to navigable waters.

3. Other Reporting

Verbal and written notification of leaks or spills will be made to the NMOCD in accordance with NMOCD Rule 116. Good, sound judgement will be used in the reporting of any incidents that may occur. NMOCD Rule 116 and the applicable notification form are reproduced in this section for reference.

4. Report Handling

The variety and complexity of reporting requirements requires emergency incidents be immediately reported (day/night) to the HOMCO Director-Environmental and Safety. The Director will determine and handle reporting.

B. Leak Detection and Integrity of Tanks and Piping

Sumps in the HOMCO Fishing Tool Operations building are equipped with leak detection and secondary containment. Leak detection systems for these sumps will be inspected monthly. These inspections will be documented and the documents maintained in the files of the HOMCO facility. Any sumps which leak will be repaired or replaced. Any new or replacement sumps that are installed will require leak detection.

The below-grade sump in the HOMCO Wireline Services building is a pre-existing unit less than 25 years of age. This sump does not require leak detection. To ensure its integrity, the sump will be cleaned at least once every year. At this time, it will be inspected for cracks and leaks. These inspections will be documented and the documents maintained in the files of the HOMCO facility. The sump will be replaced if it displays cracks and leaks. The replacement sump will require leak detection.

The facility was constructed and began operation in 1974. The facility is 18 years of age and is not presently required to demonstrate the integrity of buried piping. Testing of below-grade piping is required after the facility reaches 25 years of age. The piping will be tested annually beginning in 1999. Testing of all below-grade piping that conveys industrial waste water will consist of pressure testing to 3 pounds per square inch (PSI). The results of the pressure tests will be maintained in the files of the HOMCO facility. Any buried piping that fails to pass pressure testing will be replaced.

The above-ground tanks (waste oil and diesel) will be inspected on a regular basis by facility personnel to detect leaks and ensure the integrity of the tanks.

C. Injection Well Contingency Procedures

No injection wells are in use at the facility. The facility is not subject to the requirements of this subsection.

RULE 116. NOTIFICATION OF FIRE, BREAKS, LEAKS, SPILLS, AND BLOWOUTS

The Division shall be notified of any fire, break, leak, spill, or blowout occurring at any injection or disposal facility or at any oil or gas drilling, producing, transporting, or processing facility in the State of New Mexico by the person operating or controlling such facility.

"Facility," for the purpose of this rule, shall include any oil or gas well, any injection or disposal well, and any drilling or workover well; any pipe line through which crude oil, condensate, casinghead or natural gas, or injection or disposal fluid (gaseous or liquid) is gathered, piped, or transported (including field flow-lines and lead-lines but not including natural gas distribution systems); any receiving tank, holding tank, or storage tank, or receiving and storing receptacle into which crude oil, condensate, injection or disposal fluid, or casinghead or natural gas is produced, received, or stored; any injection or disposal pumping or compression station including related equipment; any processing or refining plant in which crude oil, condensate, or casinghead or natural gas is processed or refined; and any tank or drilling pit or slush pit associated with oil or gas well or injection or disposal well drilling operations or any tank, storage pit, or pond associated with oil or gas production or processing operations or with injection or disposal operations and containing hydrocarbons or hydrocarbon waste or residue, salt water, strong caustics or strong acids, or other deleterious chemicals or harmful contaminants.

Notification of such fire, break, leak, spill, or blowout shall be in accordance with the provisions set forth below:

1. Well Blowouts. Notification of well blowouts and/or fires shall be "immediate notification" described below. ("Well blowout" is defined as being loss of control over and subsequent eruption of any drilling or workover well, or the rupture of the casing, casinghead, or wellhead or any oil or gas well or injection or disposal well, whether active or inactive, accompanied by the sudden emission of fluids, gaseous or liquid, from the well.)
2. "Major" Breaks, Spills, or Leaks. Notification of breaks, spills, or leaks of 25 or more barrels of crude oil or condensate, or 100 barrel or more of salt water, none of which reaches a watercourse or enters a stream or lake; breaks, spills, or leaks in which one or more barrels of crude oil or condensate or 25 barrels or more of salt water does reach a watercourse or enters a stream or lake; and breaks, spills, or leaks of hydrocarbons or hydrocarbon waste or residue, salt water, strong caustics or strong acids, gases, or other deleterious chemicals or harmful contaminants of any magnitude which may with reasonable probability endanger human health or result in substantial damage to property, shall be "immediate notification" described below.
3. "Minor" Breaks, Spills, or Leaks. Notification of breaks, spills, or leaks of 5 barrels or more but less than 25 barrels of crude oil or condensate, or 25 barrels or more but less than 100 barrels of salt water, none of which reaches a watercourse or enters a stream or lake, shall be "subsequent notification" described below.
4. Gas Leaks and Gas Line Breaks. Notification of gas leaks from any source or of gas pipe line breaks in which natural or casinghead gas of any quantity has escaped or is escaping which may with reasonable probability endanger human health or result in substantial damage to property shall be "immediate notification" described below. Notification of gas pipe line breaks or leaks in which the loss is estimated to be 1000 or more MCF of natural or casinghead gas but in which there is no danger to human health nor of substantial damage to property shall be "subsequent notification" described below.
5. Tank Fires. Notification of fires in tanks or other receptacles caused by lightning or any other cause, if the loss is, or it appears that the loss will be, 25 or more barrels of crude oil or condensate, or fires which may with reasonable probability endanger human health or result in

substantial damage to property, shall be "immediate notification" as described below. If the loss is, or it appears that the loss will be at least 5 barrels but less than 25 barrels, notification shall be "subsequent notification" described below.

6. Drilling Pits, Slush Pits, and Storage Pits and Ponds. Notification of breaks and spills from any drilling pit, slush pit, or storage pit or pond in which any hydrocarbon or hydrocarbon waste or residue, strong caustic or strong acid, or other deleterious chemical or harmful contaminant endangers human health or does substantial surface damage, or reaches a watercourse or enters a stream or lake in such quantity as may with reasonable probability endanger human health or result in substantial damage to such watercourse, stream, or lake, or the contents thereof, shall be "immediate notification" as described below. Notification of breaks or spills of such magnitude as to not endanger human health, cause substantial surface damage, or result in substantial damage to any watercourse, stream, or lake, or the contents thereof, shall be "subsequent notification" described below, provided however, no notification shall be required where there is no threat of any damage resulting from the break or spill.

IMMEDIATE NOTIFICATION. "Immediate Notification" shall be as soon as possible after discovery and shall be either in person or by telephone to the district office of the Division district in which the incident occurs, or if the incident occurs after normal business hours, to the District Supervisor, the Oil and Gas Inspector, or the Deputy Oil and Gas Inspector. A complete written report ("Subsequent Notification") of the incident shall also be submitted in duplicate to the appropriate district office of the Division within ten days after discovery of the incident.

SUBSEQUENT NOTIFICATION. "Subsequent Notification" shall be a complete written report of the incident and shall be submitted in duplicate to the district office of the Division district in which the incident occurred within ten days after discovery of the incident.

CONTENT OF NOTIFICATION. All reports of fires, breaks, leaks, spills, or blowouts, whether verbal or written, shall identify the location of the incident by quarter-quarter, section, township, and range, and by distance and direction from the nearest town or prominent landmark so that the exact site of the incident can be readily located on the ground. The report shall specify the nature and quantity of the loss and also the general conditions prevailing in the area, including precipitation, temperature, and soil conditions. The report shall also detail the measures that have been taken and are being taken to remedy the situation reported.

WATERCOURSE. For the purpose of this rule, is defined as any lake-bed or gully, draw, stream bed, wash, arroyo, or natural or man-made channel through which water flows or has flowed.

State of New Mexico
Energy and Minerals Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

Name of Operator				Address				
Report of	Fire	Break	Spill	Leak	Blowout	Other*		
Type of Facility	Drig Well	Prod Well	Tank Btty	Pipe Line	Gaso Pnt	Oil Rfy	Other*	
Name of Facility								
Location of Facility (Quarter/Quarter Section or Footage Description)					Sec.	Twp.	Rge.	County
Distance and Direction From Nearest Town or Prominent Landmark								
Date and Hour of Occurrence				Date and Hour of Discovery				
Was Immediate Notice Given?	Yes	No	Not Required	If Yes, To Whom				
By Whom				Date and Hour				
Type of Fluid Lost				Quantity of Loss	_____ BO _____ BW	Volume Recovered	_____ BO _____ BW	
Did Any Fluids Reach a Watercourse?	Yes	No	Quantity					
If Yes, Describe Fully**								
Describe Cause of Problem and Remedial Action Taken**								
Describe Area Affected and Cleanup Action Taken**								
Description of Area	Farming	Grazing	Urban	Other*				
Surface Conditions	Sandy	Sandy Loam	Clay	Rocky	Wet	Dry	Snow	
Describe General Conditions Prevailing (Temperature, Precipitation, Etc.)**								
I Hereby Certify That the Information Above Is True and Complete to the Best of My Knowledge and Belief								
Signed		Title			Date			

*Specify

**Attach Additional Sheets if Necessary

XII. Geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water.

A. Site Characteristics

1. Surface Water and Water Wells

As shown on Figure 6, the nearest major surface waterways to the facility are the Animas River (approximately 1.5 miles to the north), the San Juan River (approximately 0.75 miles to the south), a private irrigation lake (name unknown, located approximately 0.25 miles to the southwest) and a private irrigation ditch (Echo Ditch, approximately 0.125 miles to the south). Additionally, three arroyos appear to drain the bluffs located north of the facility. These arroyos converge approximately 0.25 miles west of the facility before flowing into the private irrigation lake. Surface water in the area of the facility generally flows south-southwest towards the San Juan River, the primary river basin in northern San Juan County.

Table 1 lists the water wells which are known to be in the area of the HOMCO facility. Table 1 also presents the following information: legal descriptions, well name, total depth, water use, depth to water, date drilled and specific conductance. This table was prepared from available records of the U.S. Geological Survey (USGS), the New Mexico State Engineer's Office and the New Mexico Bureau of Mines and Mineral Resources (NMBMMR). Information was also obtained in a personal communication with Mr. Frank Kaphart, San Juan County Building Official.

There appear to be nine (9) known water wells within Sections 13 and 24 of Township 29 North, Range 13 West and Sections 18 and 19 of Township 29 North, Range 12 West (Table 1 and Figure 6). These four sections include or border the HOMCO facility. The water well that is potentially closest to the facility is well #2 (Table 1), located as close as 0.125 miles to the southeast of the facility (Figure 6).

2. Ground Water

Ground water in the area of the facility generally flows south-southwest towards the San Juan River, the primary river basin in northern San Juan County. Ground-water production in the San Juan River Basin is not substantial and the water is likely to be of poor quality. The principal use of ground water in 1980 in the county was about 1,700 acre-feet for rural use and 6,500 acre-feet for industrial use. According to the State Engineer's Office, these facts account for the minor number of known water wells in the vicinity of the HOMCO facility.

Personnel from Walters drilling company, located immediately north of the HOMCO facility (Figure 2 in Section V), believe that ground water may be as shallow as 30 foot to 40 foot below grade. This assertion is based on field observations made during the drilling of a test hole on Walters property. No documentation is available to confirm this statement. Depth to water in the two wells closest to the HOMCO facility (well #2 and #3, see Table 1) reportedly ranges from 32 to 45 foot.

R 13 W

R 12 W



T 29 N



Reference: Farmington South Quadrangle
 New Mexico - San Juan, County.
 7.5 Minute Series (Topographic).
 SCALE: 1: 24,000

<p>Buy's & Associates, Inc. Environmental Consultants</p>	
<p>FIGURE 6</p>	
<p>LOCATION OF KNOWN WATER WELLS IN VICINITY OF HOMCO FACILITY HOMCO INTERNATIONAL, INC. FARMINGTON, NEW MEXICO</p>	
<p>Date: 4/30/92</p>	

Table 1 - Summary Information for Water Wells near HOMCO Facility

Source	Number or name	Depth (ft)	Use	Altitude (ft)	Depth to water (ft)	Date	Producing interval (ft)	Specific conductance umhos @ 25 C	Remarks
1 NMBMMR	T29 R12 Sec 18 PanAmPet					pre-1959	1435-1448	.	TDS=29800 mg/L -1959
2 NMBMMR	T29 R12 NW 1/4 of NE 1/4 of SW 1/4 of Section 19	62		5360	45.4	1968		2100	
3 NMBMMR	T29 R12 SW 1/4 of NE 1/4 of SW 1/4 of Section 19	44		5330	32.1	1968		900	
4 USGS	T29 R12 SE 1/4 of SE 1/4 of SW 1/4 of Section 19	28	domestic			1978-83			
5 USGS	T29 R12 SE 1/4 of NW 1/4 of SE1/4 of Section 19	85	domestic			1978-83			
6 USGS	T29 R12 NW 1/4 of NE 1/4 of SE1/4 of Section 19	38	domestic stock			1978-83			
7 USGS	T29 R12 SE 1/4 of SE1/4 of Section 19	76	domestic			1978-83			
8 USGS	T29 R13 NW1/4 of NW1/4 of NW 1/4 of Section 24	52	irrigation			1978-83			
9 State Engineer	T29 R12 SW 1/4 of SE1/4 of SE1/4 of Section 19	21			6	1986			

Specific conductivity values less than 1,500 micromhos have been measured in ground water withdrawn from wells screened in the Nacimiento Formation. Values for specific conductivity of water in wells located near the HOMCO facility are presented in Table 1.

3. Hydrogeologic Information

a. Soil Types

The HOMCO facility rests on alluvial sands and gravels which contain well-rounded cobbles and boulders.

b. Name of Aquifer

The Nacimiento Formation is the aquifer in the vicinity of the HOMCO facility.

c. Composition of Aquifer Material

The Nacimiento Formation is comprised of sandstones and mudstones. The sandstones are medium to very coarse-grained, immature to submature arkoses. The mudstones typically display popcorn weathering characteristic of swelling clays.

d. Depth to Bedrock

The alluvium is underlain by the Nacimiento formation at a depth of approximately 5 to 10 foot below grade.

4. Miscellaneous Information

a. Flooding Potential

The potential for the facility to become flooded by off-site waterways is considered very low for the following reasons:

- The nearest apparent drainage arroyos are approximately 0.25 miles north of and at least 20 foot lower in elevation than the facility;
- Mr. Frank Kaphart, San Juan County Building Official, stated that the facility is located on an "obvious bench" and would not be within the flood plain of the San Juan River; and
- The facility does not appear to be located within a federally-designated, 100- or 500-year flood plain and is not covered by a Federal flood insurance program.

b. Flood Protection Measures

Special flood protection measures are not necessary because of the low potential for flooding of the facility from off-site water courses.

B. Additional Information

The ground-water resources of the San Juan Basin are principally derived from wells set in Quaternary surficial valley-fill deposits and sandstones of the Tertiary, Cretaceous, Jurassic and the Triassic. Regional ground water generally flows from topographically high recharge areas consisting of outcrops along mountain flanks to topographically low discharge areas consisting of outcrops along the San Juan River Valley. Numerous alluvial-filled ephemeral stream channels in the region act as additional recharge and discharge areas.

Reported yields of wells screened in the Nacimiento Formation range from 16 to 100 gallons per minute. No aquifer test results collected in this area are available for the Nacimiento Formation. Transmissivities of 100 square foot per day are anticipated for some of the coarser, continuous sandstone bodies.

B. Source Materials for this Section

Buys and Associates, Inc., July 19, 1991, Site remediation report, HOMCO Location 151 Facility, HOMCO International, Inc., Farmington, New Mexico; unpublished report submitted to New Mexico Oil Conservation Division, 34 p., 7 figures, 1 table and 2 appendices.

Kaphart, F., March 30, 1992, personal communication between Environmental Services, Inc. and San Juan County Building Office.

New Mexico Bureau of Mines and Mineral Resources, 1983, Hydrology and water resources of San Juan Basin, New Mexico; Hydrologic Report Number 6.

Smith, J., March 30, 1992, personal communication between Environmental Services, Inc. and New Mexico State Engineer's Office.

U.S. Geological Survey, 1984, Availability of hydrologic data in San Juan County, New Mexico; Open File Report 84-608.

U.S. Geological Survey, 1965, Farmington South, New Mexico; U.S. Geological Survey 7.5 minute quadrangle map, photorevised 1979.

Williams, J., ed., 1984, New Mexico in Maps; University of New Mexico Press, 2nd edition.

XIII. Other information as is necessary to demonstrate compliance with any other New Mexico Oil Conservation Division rules, regulations, and/or orders.

The HOMCO facility ceased discharging industrial waste water to leach fields on September 25, 1990. All industrial leach fields were subsequently removed and the leach field materials disposed.

BUYS AND ASSOCIATES, INC.

6574 So. Broadway, #200
Littleton, CO 80121
(303) 730-2500
FAX (303) 730-2522

OIL CONSERVATION DIVISION
RECEIVED

'92 FEB 20 AM 9 07

February 14, 1992

Mr. Roger Anderson
State of New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-5824

RE: HOMCO LOCATION 151, ADDENDUM REMEDIATION CLOSURE REPORT

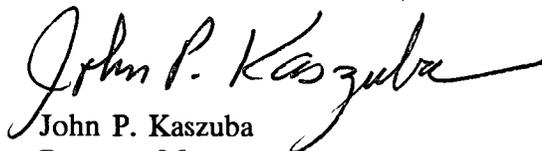
Dear Mr. Anderson:

On behalf of HOMCO International, Inc. (HOMCO), Buys and Associates, Inc. is pleased to submit the enclosed copy of the final version of the *Addendum Site Closure Report* for the HOMCO Location 151 facility in Farmington, New Mexico. This report describes the remedial activities that were recently completed in the Fall of 1991. It also presents the analytical results from the soil samples that were collected.

Industrial leach fields and surrounding soils containing petroleum hydrocarbon contaminants exceeding New Mexico Oil Conservation Division action levels have been removed from the HOMCO facility and disposed. No further excavation is required. Approximately 1,200 to 1,800 cubic yards of petroleum hydrocarbon-contaminated materials remain in place beneath the Fishing Tool Operations and Wireline Services buildings. In addition, approximately 900 to 1,200 cubic yards of petroleum hydrocarbon-contaminated materials remain in place in the bedrock between these two buildings. A concrete cap was constructed to isolate these materials in the bedrock. Contaminant sources and the hydraulic head which predominantly drives plume migration have been removed. In addition, the concrete limits the infiltration of surface water and the resultant hydraulic head. None of the materials that remain pose a threat to human health or the environment. No further remedial action is required for these materials.

We anticipate you will be able to close the file on this HOMCO facility after review of the enclosed report. If you have any questions regarding this transmittal, please contact me or Marty Buys at (303) 730-2500.

Sincerely,
BUYS AND ASSOCIATES, INC.


John P. Kaszuba
Program Manager

Enclosures: 1 final report

cc: Mr. Robert J. Medler, HOMCO-Houston (w/ 2 copies of final report)

BUYS AND ASSOCIATES, INC.

6574 So. Broadway, #200
Littleton, CO 80121
(303) 730-2500
FAX (303) 730-2522

OIL CONSERVATION DIVISION
RECEIVED

'91 NOV 15 AM 9 06

November 12, 1991

Mr. Roger Anderson
State of New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-5824

RE: HOMCO LOCATION 151 REMEDIATION WORK PLAN

Dear Mr. Anderson:

Enclosed is the remediation work plan for the additional leach field recently uncovered at the HOMCO Facility located in Farmington, New Mexico. As we discussed over the telephone last week, I am anxious to proceed quickly with this work. I am scheduled to begin the remedial activity tomorrow, November 13.

I will contact you this morning regarding the enclosed plan.

Sincerely,
BUYS AND ASSOCIATES, INC.



John P. Kaszuba
Program Manager

cc: Mr. R.J. Medler, HOMCO-Houston

a:\91work\state\tr.nov

11-12-91
Verbal approval to proceed with
remediation work plan attached
K.M. Brown

**REMEDIATION WORK PLAN
HOMCO FACILITY 151
Farmington, New Mexico**

November 11, 1991

INTRODUCTION

Remedial activities were conducted in March, 1991 at the HOMCO International, Inc. (HOMCO) facility located in Farmington, New Mexico. The objective of these activities was to eliminate the potential for future ground-water contamination caused by vertical migration of contaminants from industrial leach fields. The scope of work included removal of the contents of all leach fields and contaminated soils adjacent to the leach fields. All work was coordinated with the New Mexico Oil Conservation Division (NMOCD).

Remedial activities were temporarily halted in March, 1991 at a point where further activity would have prevented the HOMCO facility from conducting routine business operations. Remedial activities resumed in late October, 1991 after completion of a building addition and other capital upgrades. All remedial activities to be completed as part of the original scope of work (e.g. removal of all leach fields and contaminated soils) are scheduled to be concluded in early November, 1991.

One leach field, exposed after resuming remedial activities, displayed characteristics different from all other leach fields present at the HOMCO facility. The differences are sufficiently large that this leach field may not be included in the original scope of work approved by the NMOCD. This document describes the characteristics of this leach field and proposes a remedial strategy for it.

LEACH FIELD CHARACTERISTICS

The leach field is located directly in front of (east) the Wireline Service Building (Figure 1) and will be designated the "Wireline leach field" in this document. The Wireline leach field displays several characteristics which distinguish it from other leach fields previously excavated at the HOMCO facility:

1. it was installed in a deeper level (approximately 4 to 5 foot, see cross section in Figure 2);
2. liquids and sludges were present in leach field gravels in larger quantities than observed in other leach fields;
3. the underlying sandstone is more porous than bedrock lithologies exposed in other area of the facility;
4. hydrocarbons have migrated downward into the sandstone to depths of 18 foot; no downward migration to these depths has been observed elsewhere at the facility; and

5. hydrocarbons which have migrated into the sandstone have also migrated laterally for distances ranging from 30 to 50 foot; areal migration around other leach fields at the facility was generally limited to 10 to 20 foot.

These characteristics were determined in the field by excavating the southern margin of the plume which emanated from the Wireline leach field. Approximately 370 cubic yards of material were excavated. Observations made during the excavation suggest that contaminants which currently remain underlie a 2,500 square foot area to a depth of 15 to 18 foot (i.e. approximately 1,400 to 1,700 cubic yards of material). An additional amount of material containing petroleum hydrocarbons extends westward beneath the Wireline Service Building.

Three samples of sandstone impacted by hydrocarbons from the Wireline leach field were collected after the southern margin of the plume was excavated. The locations of these three samples are depicted in the enclosed cross section of the plume (Figure 2). All samples were analyzed for Total Petroleum Hydrocarbons (EPA Method 8015 Modified). Each sample was also analyzed for TCLP benzene or total BTEX (EPA Method 8020). Analytical results for these three samples are presented in Table 1. These results indicate that sandstone impacted by hydrocarbons contains 5,400 milligrams per kilogram (mg/Kg) Total Petroleum Hydrocarbons. Small amounts of toluene, ethyl benzene and xylenes were also detected. Hydrocarbons occur in detectable levels in the sandstone down to depths ranging from 15 to 18 foot. This depth coincides with a lithology change from a porous, friable sandstone to a more competent and less porous sandstone.

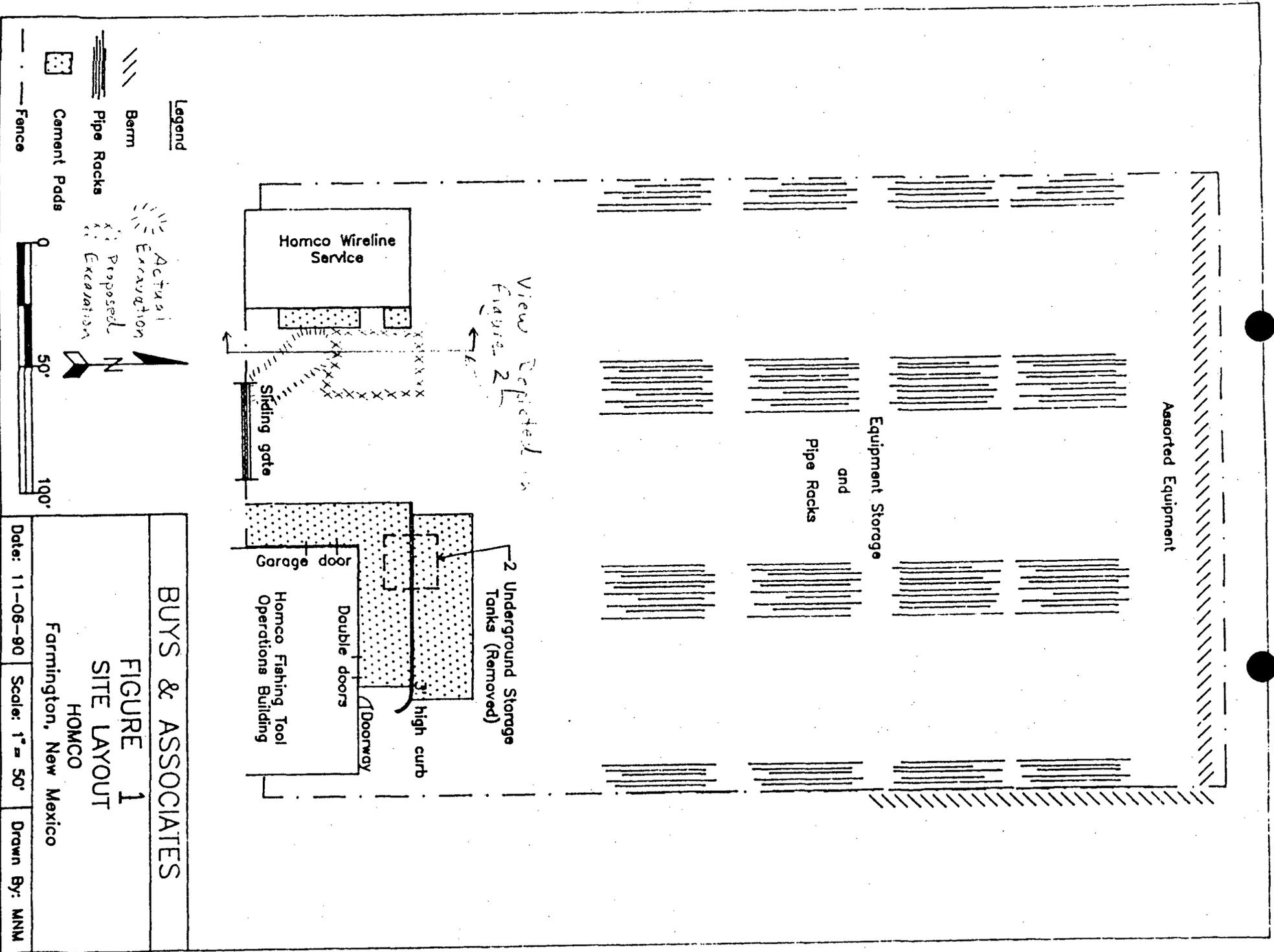
REMEDIAL APPROACH

Remediation of the Wireline leach field will consist of excavation of all material in the leach field and the heavily stained soils beneath and adjacent to the leach field. Observations made during excavation of the southern margin of the plume emanating from the Wireline leach field suggest a total of approximately 450 cubic yards will require excavation (2,500 square foot area to a depth of 5 foot). Field instrumentation (Organic Vapor Meter) will be used to guide the excavation. All excavated material will be disposed of in the approved landfill previously utilized. The excavation will be backfilled and compacted to grade. A concrete cap will then be emplaced above the area.

This approach is recommended for the following reasons:

1. analytical results of the sandstone sample collected at the downgradient margin of the plume (sample #9111021400 in Table 1) suggest the hydrocarbon constituents degrade relatively quickly as the plume migrates;
2. the source of hydrocarbon contaminants and the hydraulic head which predominantly drives plume migration will be removed; and
3. the concrete cap will help to isolate the petroleum hydrocarbons in the sandstone.

This approach is scheduled to be implemented on Wednesday, November 13 pending approval by the NMOCD. A complete report of remedial activities will be submitted to the NMOCD following completion of the project.



BUYS & ASSOCIATES

**FIGURE 1
SITE LAYOUT**

HOMCO
Farmington, New Mexico

Date: 11-06-90

Scale: 1" = 50'

Drawn By: MNM

TABLE 1
Summary of Analytical Results, Wireline Leach Field
HOMCO Location 151 Remediation
Farmington, New Mexico

SAMPLE ID (Description)	TCLP BENZENE	TOTAL BENZENE	TOTAL TOLUENE	TOTAL ETHYL BENZENE	TOTAL XYLENES	TOTAL PETROLEUM HYDROCARBONS
9111021400 (Verify sidewall at 15 ft after completing excavation of southern margin of plume)	ND	NA	NA	NA	NA	ND
9111041200 (Characterize sandstone impacted by hydrocarbons from Wireline leach field)	NA	ND	0.039	0.055	0.520	5,400*
9111071315 (Verify floor of excavation at 18 ft)	NA	ND	0.0007	ND	0.002	ND

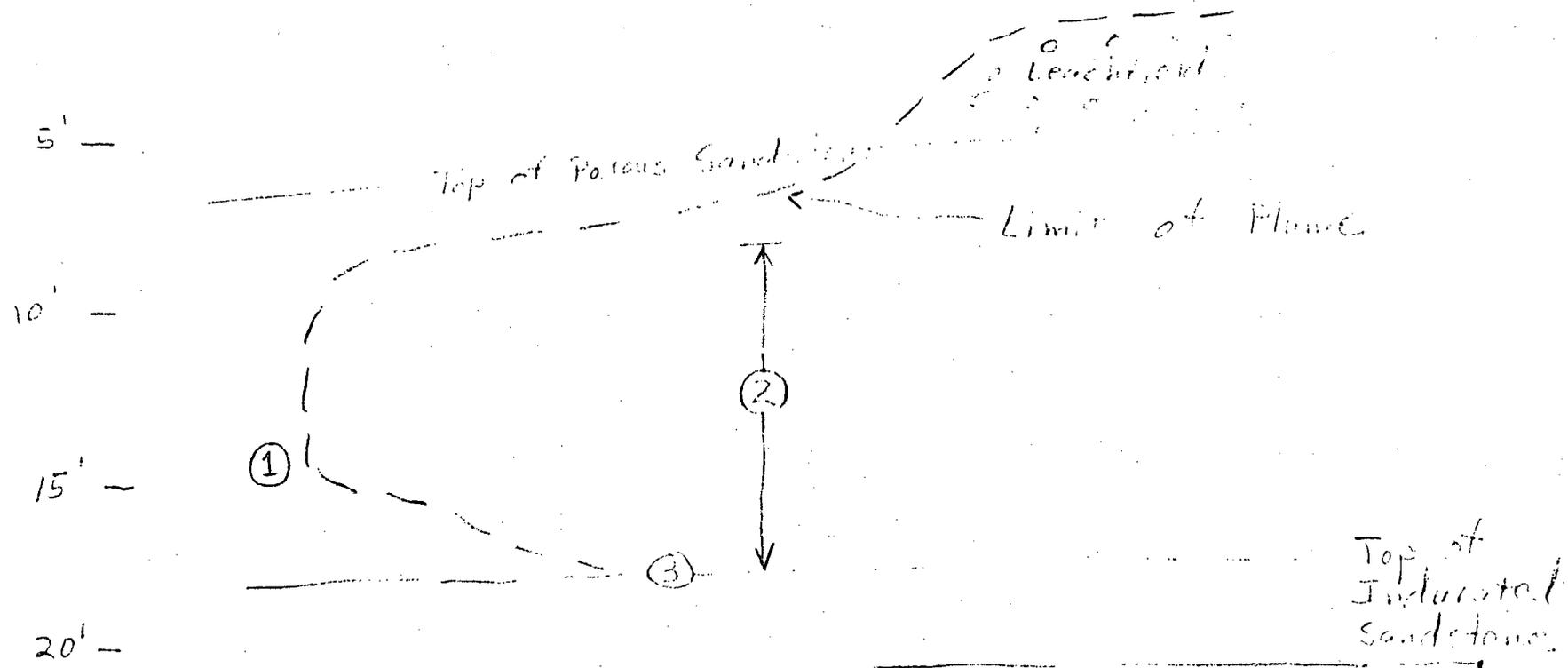
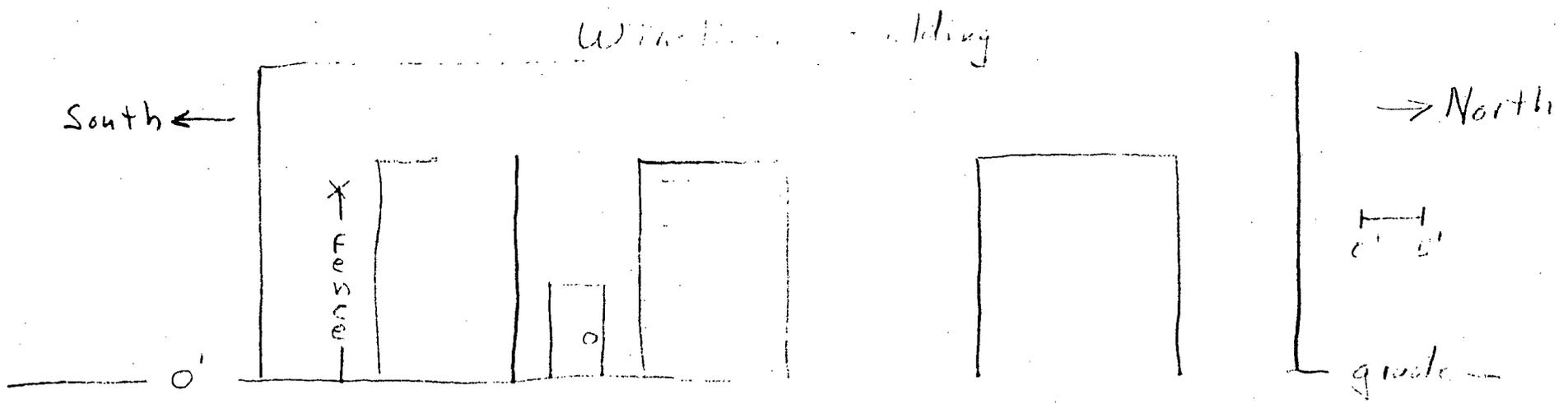
All units in mg/Kg

* - Analytical Results indicate 80% diesel and 20% heavy hydrocarbons such as lubricating oils

NA - Not Analyzed

ND - Not Detected

A:191WORK\WIRELINE.WK1



- ①: OVM = 0 ppm; Sample #9111021400
- ②: OVM = 800-850 ppm; Sample #9111041200
- ③: OVM = 10 ppm; Sample #9111071315

Figure 2
 Cross Section
 Wichita Building
 HMM - Plume



MEMORANDUM OF MEETING OR CONVERSATION

Telephone

Personal

Time

10:00 AM -

Date

11-12-91

Originating Party

Other Parties

John P. Kaszuba

K.M. Brown

Buy's & Associates, Inc.

OLD

Subject

Remediation of leach field at Homco Farmington Facility.

Discussion

This leach field shows more extensive migration & volumes of liquids & sludges. Have excavated to the south & found the extent of the plume to the south. Still need to excavate the area to the north and east; can not excavate to the west under the building. Have 3 samples from S edge of excavation. Remediation will consist of removing all of the leach field and heavily stained soils using OVM measurements to guide excavation. Will then take verification samples on north & east sides of excavation.

Conclusions or Agreements

Distribution

Signed

BUYS AND ASSOCIATES, INC.

6574 So. Broadway, #200
Littleton, CO 80121 OIL CONSERVATION DIVISION
(303) 730-2500 RECEIVED
FAX (303) 730-2522

'91 JUL 24 AM 11 50

July 22, 1991

Mr. Roger Anderson
State of New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-5824

RE: HOMCO LOCATION 151 FACILITY REMEDIATION REPORT

Dear Mr. Anderson:

Enclosed is a copy of the final version of the Site Remediation Report for the HOMCO Location 151 facility in Farmington, New Mexico. The site was remediated between March 6 and 14, 1991, during which time the leach field north of the HOMCO Wireline Services building, and the soils under the concrete pads north of the HOMCO Fishing Tools Operations (HFTO) building were excavated. The soils in the northeast corner of the yard where industrial sump sludges were disposed of were also removed. Approximately 1,650 cubic yards of contaminated soils were transported to the Envirotech landfill located 11-miles south of Bloomfield, New Mexico for disposal. The area north of the HFTO building was backfilled and compacted to grade in preparation of the construction of the proposed building addition.

If you have any questions regarding this document please contact me or Dale Kardash at (303)730-2500.

Sincerely,
BUYS AND ASSOCIATES, INC.



M. Nanette Martin,
Program Manager

cc: File

A:\NMOCDVRLTR

BUYS AND ASSOCIATES, INC.

6574 So. Broadway, #200
Littleton, CO 80121
(303) 730-2500
FAX (303) 730-2522

OIL CONSERVATION DIVISION
RECEIVED

'91 FEB 25 AM 10 56

Mr. Roger Anderson
State of New Mexico
Oil Conservation Division
State Land Office Building
310 Old Santa Fe Trail, Room 205
Santa Fe, NM 87501

RE: Leach field remediation at HOMCO Location 151 Facility

Dear Roger:

Enclosed are the two documents you requested that are relevant to the Homco remediation in Farmington. Document One summarizes the sampling procedures and analytical results for the Phase II samples collected at the site. Document Two is the Remediation Work Plan prepared for this site.

Use of the industrial leachfield was discontinued by Sept. 25, 1990. A three phase oil-water separator was installed and all the waste water is now recycled.

We plan to meet with you at the site on March 7, 1991, at 9 AM. The work will start shortly thereafter.

If you need any further information, please call me at (303) 730-2500.

Sincerely,
BUYS AND ASSOCIATES, INC.



Martin W. Buys
President

Document One

Sampling Procedures and Analytical Results
for Phase II Sampling

SAMPLING PROCEDURES

Sample Locations

Borehole locations were determined based on the results of Phase I analyses. One borehole was located in the vicinity of the northeastern piperack, where sludge from the Fishing Tool Operations (FTO) building sump was previously dumped; one borehole was located adjacent to the east side of the FTO building; and two boreholes were located in the pipe cleaning and inspection area to characterize the vertical extent of contamination present in each area. In addition, three boreholes were located in the leachfields north of the Homco Wireline Service (HWS) building and west-northwest of the FTO building (Figure 1) to characterize the nature of the constituents present in each leachfield.

Only four of the seven boreholes proposed for Phase II were drilled. Three boreholes located in the vicinity of the leachfields were not drilled due to auger refusal encountered above the desired sampling depths. Refusal was associated with a competent, shallow, subsurface unit, presumably the Nacimiento formation, which was impenetrable by hollow-stem auger or hand auger drilling techniques. Representative composite samples of the leachfield contents were collected during excavation instead. Representative samples of the Safety Kleen solvent stored and used frequently at the yard were also collected for use as comparison standards for quantitative laboratory analyses.

Borehole Sampling Procedures

The majority of Phase II drilling and sampling was performed using a CME-75 truck-mounted drill rig with 6.25 inch (in.) outside diameter (OD) continuous flight, hollow-stem augers and 5 foot (ft) polybutyrate-lined (3 in. OD) continuous core samplers. Additional drilling was conducted using a 3.25 in. OD stainless steel hand auger bucket attached to a "T" handle via extension rods.

Sampling was proposed at four depths in each borehole: 5 ft below ground surface; the bottom of each borehole; and two intermediate intervals to be determined by screening with an organic vapor meter (OVM). Auger refusal or insufficient core recovery occurred in each borehole at depths less than 5 ft, therefore, only one sample was collected at each location (excluding duplicates for laboratory purposes). Samples from three of the four boreholes drilled consisted of undisturbed core. Due to shallow auger refusal, sample BH04 consisted of composite material collected from the surface to the total depth of the borehole (approximately 9-inches).

Prior to the start of drilling at each borehole location, all drilling equipment was thoroughly steam cleaned, as was all sampling equipment prior to reuse at each distinct sampling interval. Samples of subsurface materials were collected in clear, polybutyrate tubes as the boreholes were advanced. Upon removal from the hole, sample tubes were covered at each end with a teflon-lined plastic caps and secured with tape. Tubes were labeled according to date, time, and location of sample collection, and immediately placed in ice chests, for storage at a temperature of 4 degrees Celsius (°C). Ice chests were secured with custody seals prior to relinquishment of custody to the laboratory via an overnight courier.

All boreholes were logged on standard lithologic borelogs and all field observations were noted in bound logbooks, in accordance with B&A Field Operating Procedures (FOPs). Throughout sampling operations, an OVM photoionization detector was employed to monitor the breathing zone, borehole, cuttings, and samples for organic vapors. A Sniffer combustible gas meter (CGI) was also used to monitor gases at potentially explosive concentrations. OVM readings above background levels were appropriately documented in the site logbook. Combustible gas readings did not exceed acceptable limits throughout the drilling program. Downhole OVM readings were recorded above background at 12.9, 9.8, and 1.4 parts per million (ppm) in BH00, BH01, and BH02, respectively. No OVM readings were recorded above background level from cuttings, therefore containment in drums was not necessary, and cuttings were utilized to backfill each of the four shallow boreholes immediately after sampling.

Leachfield Sampling Procedures

In addition to the five samples (including one duplicate) collected from four boreholes, samples were also collected from the leachfields during excavation. One composite sludge sample was collected from the backhoe bucket during the excavation Pits 1, 2a, and 2b. The locations of the pits are shown in Figure 1. The Pit 1 sample was collected to identify the waste characteristics of the industrial and sanitary discharge from the HWS building. Samples from Pits 2 a and 2b were collected to identify the waste characteristics of the industrial discharge from the FTO building. Black staining and distinct hydrocarbon odors were encountered during the excavation of Pits 1 and 2b. Significant hydrocarbon odors and elevated OVM readings of 135 ppm were detected in Pits 2a and 2b, however, there was no evidence of staining in Pit 2a. Pit 2b was excavated around the east-west trending lateral line which extended from the FTO building to the leachfield. This pipe was ruptured during excavation and leaked a significant volume of black liquid into the open pit.

Two samples of the liquid were collected the following day, after which the damaged section of pipe was removed and repaired with a similar section of PVC. The pits were backfilled prior to the completion of Phase II field operations with material generated during excavation.

Quality Assurance and Quality Control

All field procedures were conducted in accordance with B&A's Field Operating Procedures (FOPs), developed from proven field methodologies to provide standardization and assure collection of representative samples, as well as to adhere to established RCRA protocol. These guidelines specify decontamination requirements for drilling and sampling equipment as previously described, and outline strict chain-of-custody (COC) procedures which were followed from the time of sample collection until ice chests were relinquished for shipment to the lab. Additional specifications included in the FOPs assure verification and completeness of documentation. Phase II field and laboratory documentation is therefore sufficient to provide data of litigation quality, and to illustrate the validity of procedures applied to achieve project goals.

Duplicate samples of soil and liquid were collected and analyzed to ensure accuracy and precision with respect to laboratory protocol, and to allow for recognition of deficiencies in sampling or laboratory techniques affecting data quality.

Laboratory Analysis

Five soil samples (including one duplicate collected for QA/QC purposes), three sludge samples, two liquid samples (including one QA/QC duplicate), and two Safety Kleen solvent standard samples were submitted for analysis to Core Laboratories in Aurora, Colorado via Federal Express.

All samples, excluding the two solvent samples collected as standards, were analyzed for TPH and EP toxicity metals. In addition, the soil sample collected from the NE corner of the yard (in the area where sludge from the sump had been previously dumped), the accompanying QA/QC duplicate, and all sludge and liquid samples collected during excavation of the leachfield pits were analyzed for the Safety Kleen solvent. This was performed using a characteristic gas chromatograph "fingerprint" derived from two samples of the solvent collected for quantitative comparison.

Core Laboratories adhered to EPA analytical protocol established for these methods for each medium. Internal laboratory quality assurance programs were also instituted to ensure

representativeness and consistency. Duplicate soil and liquid samples were also analyzed to evaluate the accuracy and precision of quantitative measurements, however, these samples were not considered to be a part of laboratory QC, and were therefore treated as environmental samples by the laboratory.

SITE EVALUATION

Analytical Results

Results from the Phase II analyses of ten samples collected at seven locations in the yard identified the presence of metals throughout the site at concentrations below federal standards associated with the analyses performed. Elevated hydrocarbon and BTEX constituent concentrations were also detected in localized areas. Two additional samples were collected as standards for analysis of the ten environmental samples, and are therefore not discussed in this section. Analytical results for the HOMCO Location 151 sampling locations are presented in Tables 1 and 2, and in Figures 2 and 3.

Barium, cadmium, chromium, and lead were the only heavy metal constituents identified in concentrations above detection limits in the Phase II. Barium was detected at concentrations from 0.1 to 0.7 milligrams per liter (mg/L), in each of the soil samples, collected from depths ranging from 0 to 5 ft. Barium was also detected in two liquid samples collected from Pit 2b during excavation, at concentrations of 0.7 and 0.8 mg/L. No EP toxicity metals were detected at concentrations greater than detection limits for sludges collected in Pits 1, 2a, or 2b.

Cadmium and chromium were detected less frequently and at lower concentrations than barium. Cadmium was detected in soil samples BH01 and BH04 at 0.02 mg/L. Cadmium was also detected at 0.01 mg/L in one sample of liquid from Pit 2b. Chromium was detected in all but two soil samples (BH00 and BH03) at concentrations ranging from 0.01 to 0.02 mg/L. None of the samples collected from the leachfields contained chromium at concentrations greater than detection limits.

Lead was detected in three Phase II samples. Specifically, lead was detected in soil sample BH01, and both liquid samples from Pit 2b at concentrations of 0.06, 1.09, and 1.32 mg/L, respectively.

Results of TPH analyses reported diesel and varsol in BH00 and BH01 (duplicate samples collected at approximately the same location). Diesel concentrations were reported as 66 and 140 mg/Kg; and varsol at 26 and 92 milligrams per kilogram (mg/Kg), respectively. Sludge and liquid samples from Pit 2b contained diesel at concentrations of 500 and 3,130 mg/Kg; and varsol at 68 and 2,840 mg/Kg. TPH was not detected in any other Phase II samples.

BTEX constituents were detected in soil sample BH01, and in sludge and liquid samples collected

from Pit 2b. Toluene and xylene were both detected at 0.005 mg/Kg in BH01, and all four BTEX contaminants were detected in Pit 2b. Benzene was present at concentrations of 2.8 and 5.0 mg/Kg; toluene at 5.0 and 7.0 mg/Kg; ethyl benzene at 7.0 and 7.02 mg/Kg; and xylene at 23.8 and 26 mg/Kg.

Interpretation of Analytical Results

The Phase II assessment of contamination at HOMCO Location 151 suggests that there are two affected areas: the vicinity of BH00 and the accompanying duplicate BH01, and the leachfield in which 2b was excavated. Despite OVM readings observed during the excavation Pits 1 and 2a, and black staining observed in Pit 1, no contaminants were detected at concentrations greater than detection limits in samples from these locations.

Due to auger refusal and poor recovery at shallow depths during drilling, characterization of the vertical extent of contamination could not be performed.

Metal concentrations detected in samples collected throughout the yard, including the leachfields, were several orders of magnitude lower than established federal regulatory thresholds for the EP toxicity analyses performed, and are therefore not considered hazardous according to RCRA. In addition, all metals in concentrations above detection limits in Location 151 samples are within the range of naturally occurring concentrations for soils in the Western United States (Shacklette, et al., 1984).

Anomalous elevated TPH and BTEX constituent concentrations from the BH00/BH01 soil samples and Pit 2b appear to be the result of isolated practices and operations performed in these areas of the yard, and are therefore not considered representative of overall site conditions. Specifically, the contaminants detected in the BH00 and BH01 vicinity are presumed to be the result of sludge from one of the sumps dumped in this area. Similarly, those detected in Pit 2b are suspected to be the result of transmission of oily water to the leachfield for disposal.

TABLE 2
SUMMARY OF PHASE II ANALYTICAL RESULTS FOR INORGANIC COMPOUNDS
 Farmington Location 151 Facility
 HOMCO International

SAMPLE NUMBER (Borehole/Pit Number)	DEPTH (ft)	ARSENIC As (mg/L)	BARIUM Ba (mg/L)	CADMIUM Cd (mg/L)	CHROMIUM Cr (mg/L)	LEAD Pb (mg/L)	MERCURY Hg (mg/L)	SELENIUM Se (mg/L)	SILVER Ag (mg/L)
HMCOFMBH00 (BHO0)	1.5 to 2.5	BDL	0.2	BDL	0.01	BDL	BDL	BDL	BDL
HMCOFMBH01 (BHO1)	1.5 to 2.5	BDL	0.7	0.02	0.01	0.06	BDL	BDL	BDL
HMCOFMBH02 (BHO2)	4 to 5	BDL	0.1	BDL	0.02	BDL	BDL	BDL	BDL
HMCOFMBH03 (BHO3)	2 to 3	BDL	0.1	BDL	BDL	BDL	BDL	BDL	BDL
HMCOFMBH04 (BHO4)	0 to 0.75	BDL	0.6	0.02	0.01	BDL	BDL	BDL	BDL
HMCOPIT101 (Pit 1)	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HMCOPIT201 (Pit 2a)	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HMCOPIT202 (Pit 2b)	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HMCOPIT2L1 (Pit 2b)	NA	BDL	0.7	BDL	BDL	1.09	BDL	BDL	BDL
HMCOPIT2L2	NA	BDL	0.8	0.01	BDL	1.32	BDL	BDL	BDL

BDL - Below Detection Limit
ft - Feet

mg/L - Milligrams per liter
NA - Not Applicable

TABLE 1
SUMMARY OF PHASE II ANALYTICAL RESULTS FOR ORGANIC COMPOUNDS
 Farmington Location 151 Facility
 HOMCO International

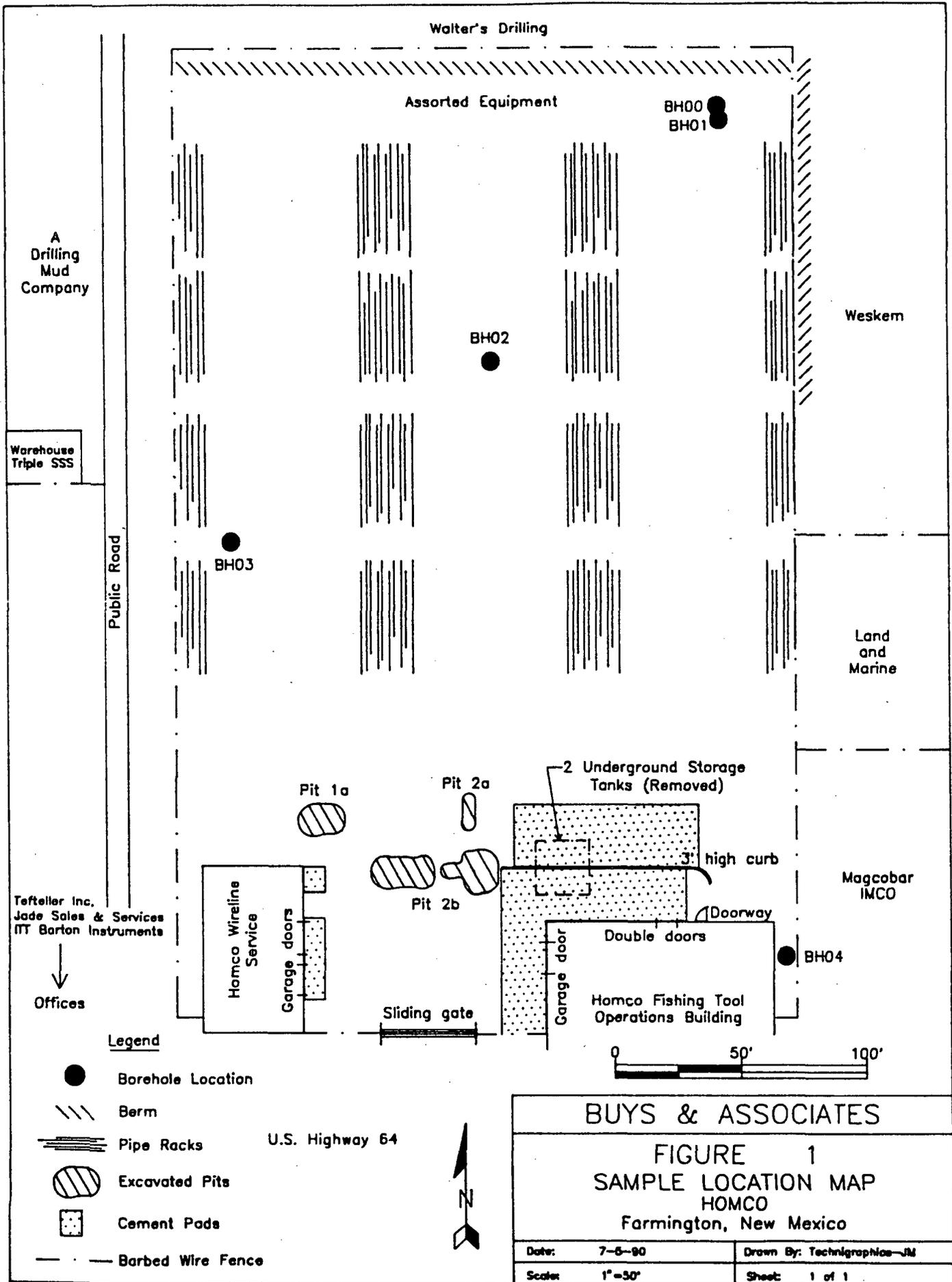
SAMPLE NUMBER (Borehole/Pit Number)	SAMPLING TECHNIQUE	DEPTH (ft)	TPH-DIESEL (mg/kg)	TPH-VARSOL (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYBENZENE (mg/kg)	TOTAL XYLENE (mg/kg)
HMCOFMBH00 (BHO0)	Continuous Core	1.5 to 2.5	140	92	BDL	BDL	BDL	BDL
HMCOFMBH01 (BHO1)	Continuous Core	1.5 to 2.5	66	26	BDL	0.005	BDL	0.005
HMCOFMBH02 (BHO2)	Continuous Core	4 to 5	BDL	BDL	BDL	BDL	BDL	BDL
HMCOFMBH03 (BHO3)	Continuous Core	2 to 3	BDL	BDL	BDL	BDL	BDL	BDL
HMCOFMBH04 (BHO4)	Composite (Hand Sample)	0 to 0.75	BDL	BDL	BDL	BDL	BDL	BDL
HMCOPIT101 (Pit 1)	Composite (Excavation)	NA	BDL	BDL	BDL	BDL	BDL	BDL
HMCOPIT201 (Pit 2a)	Composite (Excavation)	NA	BDL	BDL	BDL	BDL	BDL	BDL
HMCOPIT202 (Pit 2b)	Composite (Excavation)	NA	500	68	2.8	ND	7.02	23.9
HMCOPIT2L1 (Pit 2b)	Grab Sample	NA	3130	2840	5.0	7.0	7.0	23.8
HMCOPIT2L2 (Pit 2b)	Grab Sample	NA	1200	1070	4.9	5.0	7.0	26
HMCOVARSL1 (Varsol Std)	Grab Sample	NA	NA	NA	NA	NA	NA	NA
HMCOVARSL2 (Varsol Std)	Grab Sample	NA	NA	NA	NA	NA	NA	NA

BDL - Below Detection Limit

mg/Kg - Milligrams per kilogram

ft - Feet

NA - Not Applicable



Walter's Drilling

Assorted Equipment

A Drilling Mud Company

Warehouse Triple SSS

Public Road

Weskem

Land and Marine

Magcobar IMCO

Benzene	5.0 mg/kg
Ethyl Benzene	7.0 mg/kg
Toluene	7.0 mg/kg
Xylene	23.6 mg/kg
TPH Diesel	3130 mg/kg
TPH Varelol	2840 mg/kg
Barium	0.7 mg/l
Lead	1.09 mg/l

Pit 1a

Pit 2a

Pit 2b

2 Underground Storage Tanks (Removed)

3' high curb

1 Doorway

Double doors

Homco Fishing Tool Operations Building

Tefteller Inc.
Jade Sales & Services
ITT Barton Instruments

Offices

Homco Wireline Service

Garage doors

Benzene	4.9 mg/kg
Ethyl Benzene	7.0 mg/kg
Toluene	5.0 mg/kg
Xylene	28 mg/kg
TPH Diesel	1200 mg/kg
TPH Varelol	1070 mg/kg
Barium	0.8 mg/l
Cadmium	0.01 mg/l
Lead	1.32 mg/l

Garage door

Sliding gate

Legend

- Borehole Location
- /// Berm
- ==== Pipe Racks
- ⊘ Excavated Pits
- Cement Pads
- - - Barbed Wire Fence

U.S. Highway 64



BUYS & ASSOCIATES

FIGURE 2
 DISTRIBUTION OF SLUDGE CONTAMINATION
 HOMCO
 Farmington, New Mexico

Date: 7-8-90

Drawn By: Technographics-JM

Scale: 1"=50'

Sheet: 1 of 1

Walter's Drilling

Benzene	0.003 mg/kg
TPH Diesel	140 mg/kg
TPH Vaporol	92 mg/kg
Barium	0.7 mg/L
Cadmium	0.02 mg/L
Chromium	0.01 mg/L
Lead	0.08 mg/L

Assorted Equipment

BH01
BH00

Benzene	0.003 mg/kg
Toluene	0.003 mg/kg
Xylene	0.003 mg/kg
TPH Diesel	68 mg/kg
TPH Vaporol	28 mg/kg
Barium	0.2 mg/L

Waskem

BH02

Barium	0.1 mg/L
Chromium	0.02 mg/L

Barium 0.1 mg/L

BH03

Land and Marine

Benzene	2.8 mg/kg
Ethyl Benzene	7.02 mg/kg
Xylene	23.9 mg/kg
TPH Diesel	800 mg/kg
TPH Vaporol	88 mg/kg

Pit 1a

Pit 2a

Pit 2b

2 Underground Storage Tanks (Removed)

3' high curb

Magobar IMCO

Tettler Inc.
Jade Sales & Services
ITT Barton Instruments

Offices

Homco Wireline Service

Garage doors

Double doors

Homco Fishing Tool Operations Building

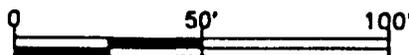
BH04

Barium	0.8 mg/L
Cadmium	0.02 mg/L
Chromium	0.01 mg/L

Legend

- Borehole Location
- /// Berm
- ==== Pipe Rocks
- ▨ Excavated Pits
- Cement Pads
- - - Barbed Wire Fence

Sliding gate



U.S. Highway 64



BUYS & ASSOCIATES

FIGURE 3
DISTRIBUTION OF SOIL CONTAMINATION
HOMCO
Farmington, New Mexico

Date: 7-6-80

Drawn By: Technigraphics-JM

Scale: 1"=50'

Sheet: 1 of 1

Document Two
Remediation Work Plan

**REMEDATION WORK PLAN
HOMCO FACILITY 151
Farmington, New Mexico**

November 27, 1990

Prepared for:

Mr. Robert Medler
HOMCO INTERNATIONAL, INC.
*4710 Bellaire
Suite 200
Houston, TX 77401*

Prepared by:

BUYS AND ASSOCIATES, INC.

*6574 South Broadway, #200
Littleton, Colorado 80121
(303) 730-2500
FAX 730-2522*

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 HOMCO Facility 151

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1.0 INTRODUCTION

1.1 SUMMARY

Buys & Associates (B&A) has prepared this Technical Plan to outline the objectives, scope of work, and estimated cost of site remediation activities proposed for the HOMCO 151 facility, located in Farmington, New Mexico. A Phase II site investigation was conducted at this facility by B&A in June, 1990 as a follow-up to a Phase I investigation conducted by the Sweetwater Corporation in November, 1989. The objectives of Phase II were to characterize the vertical extent of contamination detected in Phase I, identify the extent and waste characteristics of the industrial leach field(s), determine the depth to ground water, establish management controls, and recommend alternate waste-water handling methods. Phase II consisted of three site visits, a waste survey, a soil sampling and analysis program, and leach field excavation and sampling.

The results of the Phase II ^{why} investigation indicated that remedial attention was required in two areas of the yard: the northeast ^{corner} in which contaminated soil had been disposed; and around the HOMCO Wireline Service (HWS) and HOMCO Fishing Tool Operations (HFTO) buildings where industrial waste water is, and has historically been, disposed of via two or three separate leach field systems (B&A, Phase II Site Investigation report, September, 1990).

The remedial effort is being conducted in cooperation with the State of New Mexico Oil Conservation Commission (NMOCC). The NMOCC requires that leach fields with sludges and liquids containing Total Petroleum Hydrocarbons (TPH) in concentrations exceeding NMOCC action standards be removed, or that the facility provide adequate documentation that the quality of ground water in the immediate vicinity is not being adversely affected as a result of contaminant migration from the leach field. Although it may be possible to demonstrate that the leach fields are not impacting the ground water, it would be extremely costly to collect the data.

1.2 OBJECTIVE AND SCOPE OF WORK

The objective of the remedial effort is to eliminate the potential for future ground-water contamination caused by vertical migration of contaminants from the industrial leach field(s) and the contaminated dirt in the northeast corner of the yard. The scope of work involves removing the contents of the industrial leach field(s) and the contaminated dirt in the northeast corner of the yard via excavation and disposing of them at an approved disposal facility.

2.0 BACKGROUND

2.1 LOCATION

HOMCO International, Inc. (HOMCO) Location 151 is located in the SW corner of the NW corner of Section 19, Township 29 N, Range 12W in San Juan County, New Mexico. The site is located at 298 U.S. Highway 64, just west of Farmington, New Mexico (Figure 2-1).

The site is bordered to the south by U.S. Highway 64; to the east by the HOMCO Land and Marine yard; to the northeast by Weskem (a drilling mud company); to the north by Walters drilling company; to the northwest by another drilling mud company; and to the west by two office buildings located across a public street (Figure 2-2).

The site lies at an approximate elevation of 5380 feet above mean sea level. It is located near Echo Ditch which runs just south of U.S. Highway 64 and approximately 0.5 mile NNE of the San Juan River.

2.2 FACILITY HISTORY

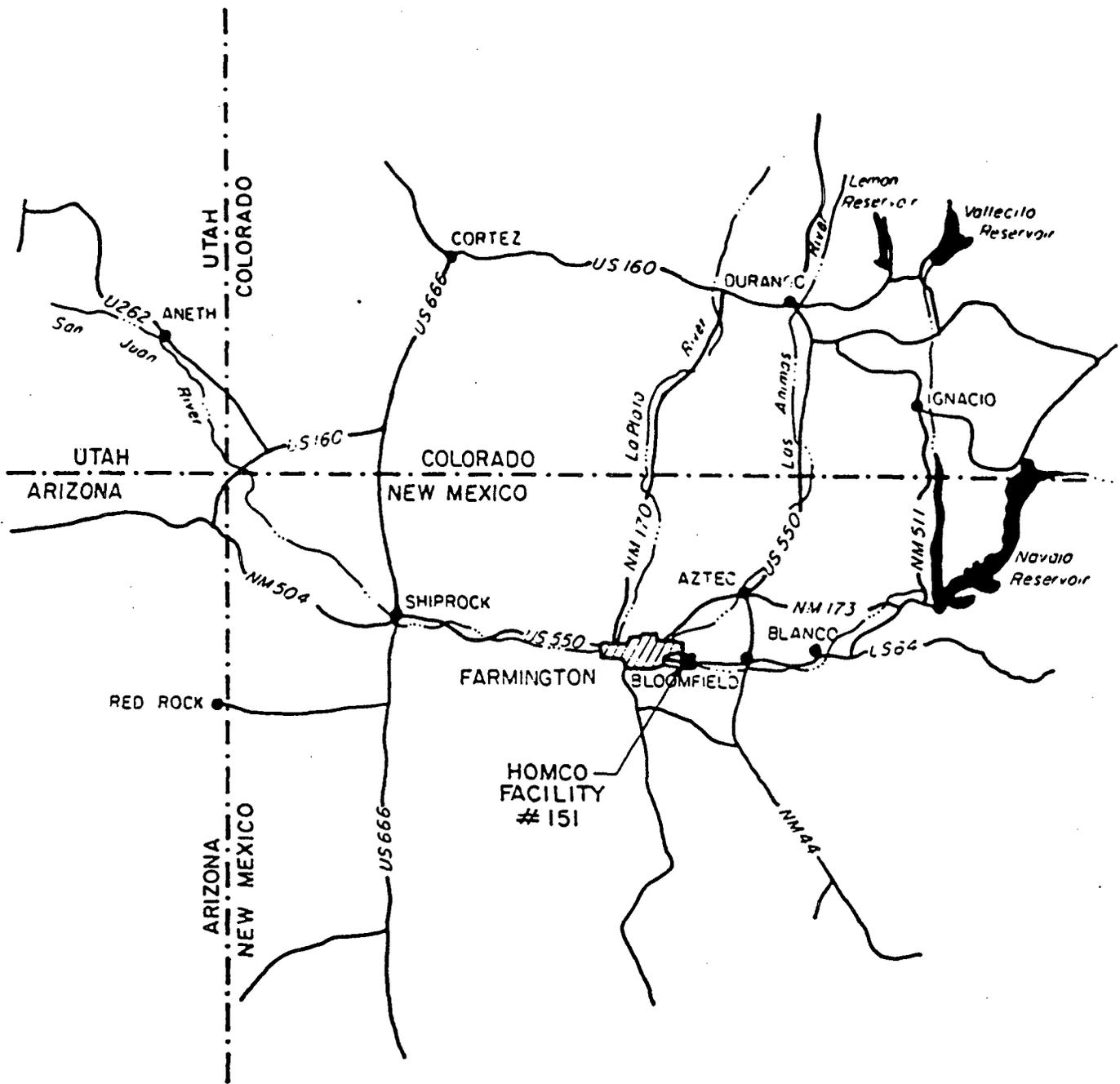
HOMCO Location 151 is operated primarily as an oilfield equipment rental and storage yard for tools and pipe used in HOMCO's fishing tool operations. HOMCO has owned and operated the plant since its construction in 1975. Prior to 1975, the land was undeveloped.

2.3 SITE CHARACTERISTICS

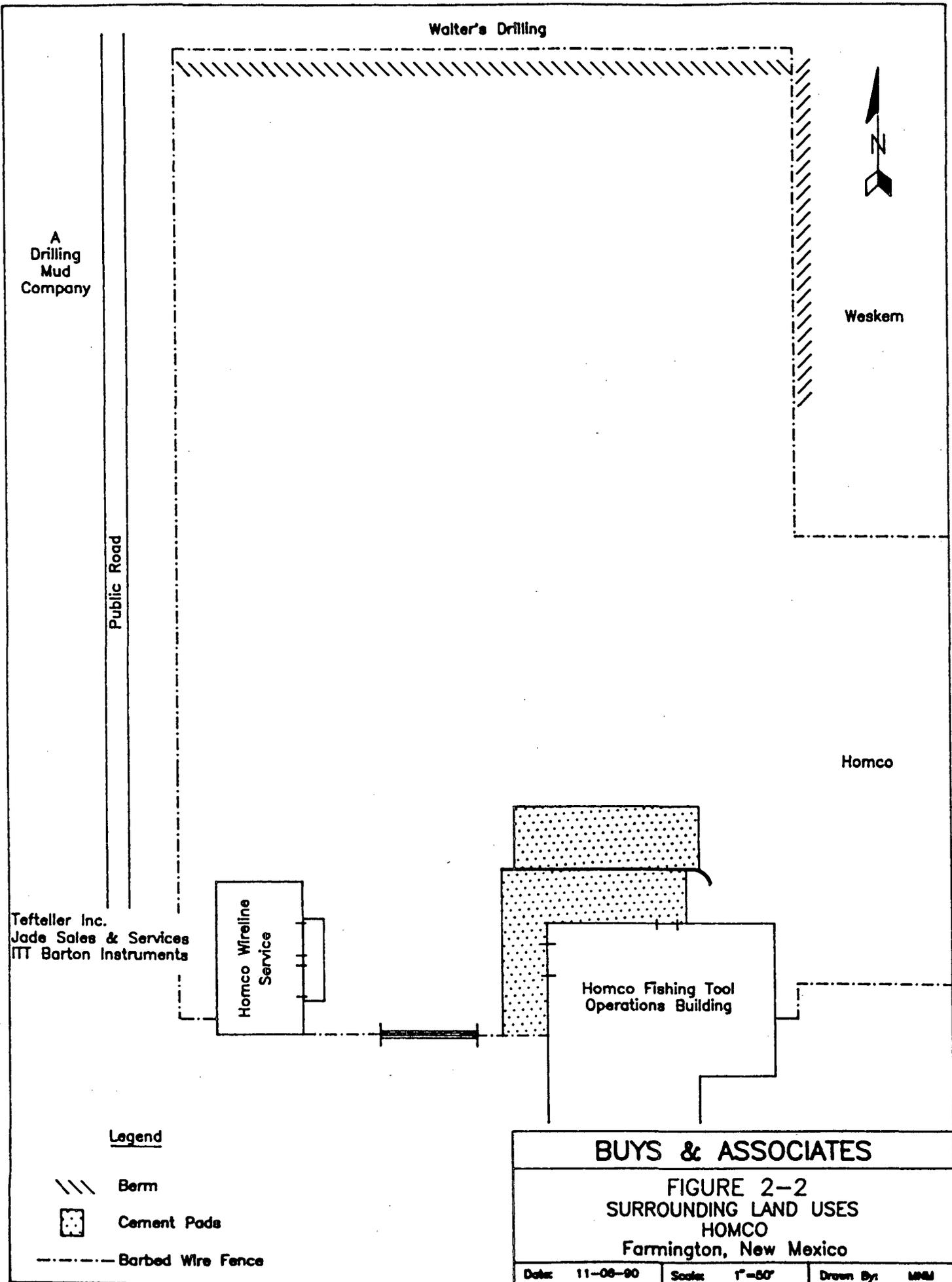
2.3.1 Site Layout

HOMCO Location 151 occupies approximately 4.5 acres of relatively flat land which drains to the south, toward the drainage ditch on the north side of U.S. Highway 64. The north, and part of the east edges of the property are bordered by a topographic rise. The 151 yard is surfaced with gravel and has two concrete slabs adjacent to portions of the HWS and HFTO buildings. The site layout is shown in Figure 2-3.

The HFTO building is the center of plant operations, and houses the administrative offices. The HWS building contains a water pump/hot water heater system which is used to wash logging tools, wireline trucks and passenger vehicles. Significantly dirtier equipment is steam cleaned in the



BUYS & ASSOC.	
FIGURE 2-1 GENERAL LOCATION MAP	
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DATE 7-15-90	SHEET: 1 of 1



Walter's Drilling



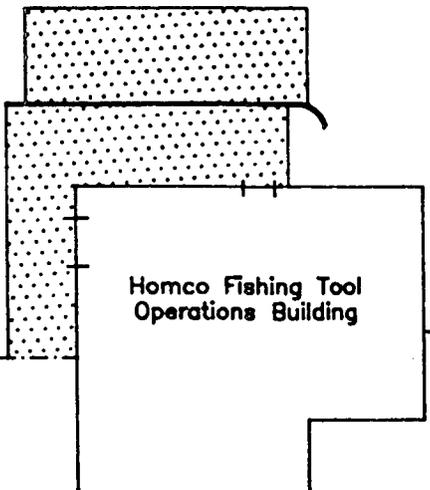
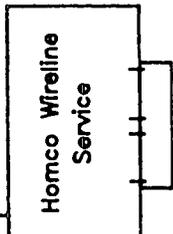
Weskem

A
Drilling
Mud
Company

Public Road

Homco

Tefteller Inc.
Jade Sales & Services
ITT Barton Instruments



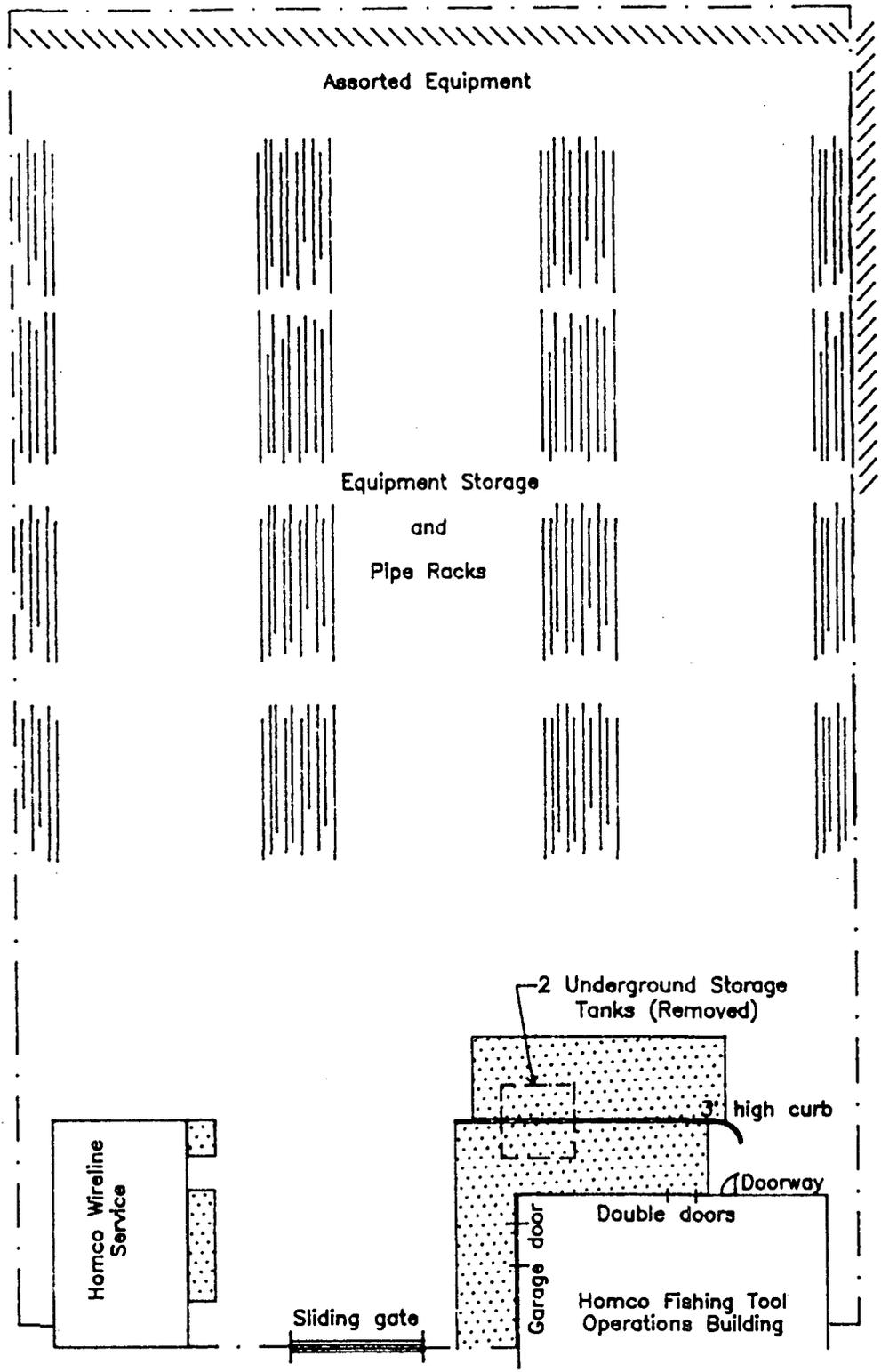
Legend

//// Berm

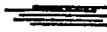
☐ Cement Pads

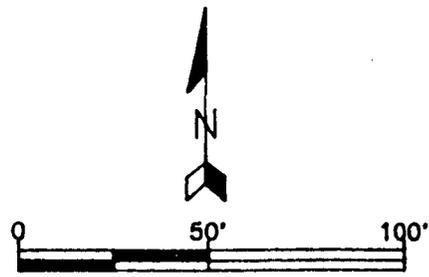
----- Barbed Wire Fence

BUYS & ASSOCIATES		
FIGURE 2-2 SURROUNDING LAND USES HOMCO Farmington, New Mexico		
Date: 11-08-80	Scale: 1"=50'	Drawn By: LMM



Legend

-  Berm
-  Pipe Racks
-  Cement Pads
-  Fence



BUYS & ASSOCIATES		
FIGURE 2-3		
SITE LAYOUT		
HOMCO		
Farmington, New Mexico		
Date: 11-06-90	Scale: 1" = 50'	Drawn By: MNM

main shop located in the HFTO building. Steam cleaning operations conducted in each building are separate. Estimated total water usage for both operations is 15,000 to 20,000 gallons per month.

The construction of an addition to the HFTO building is scheduled to begin December 1, 1990. Sixty-feet will be added to the north end of the existing structure to accommodate new painting and steam cleaning facilities, and to increase available space for equipment storage.

2.3.2 Leach-Field Distribution Systems

As of 25 September 1990, HOMCO has ceased discharging waste water to the leach fields at this site. In the past, the facility used at least three leach fields in which to dispose industrial waste water. The approximate locations of these fields are to the north of the HWS building, and to the north and west-northwest of the HFTO building. Diagrams of leach field configurations were not prepared during installation, therefore details regarding the exact locations and designs of these distribution systems are unknown. Approximate locations are presented in Figure 2-4.

Industrial waste water from the HFTO building was initially routed to a leach field distribution system which was abandoned in 1980, due to insufficient percolation rates. As a result, HOMCO installed a new industrial leach field to the west-northwest of the HFTO building to replace the abandoned system. This leach field was periodically enlarged by extending the discharge pipes outward in random directions as waste water began accumulating and percolation rates decreased.

Based on information provided by HOMCO personnel, B&A reported in the Phase II Site Characterization report (B&A, September 1990) that sanitary wastes from the HWS building were discharged into the industrial leach field system after the septic system failed. Further investigation recently conducted by B&A at this site now suggests that the septic system never actually failed, and that the industrial and sanitary waste streams were never mixed. Industrial waste water generated in the HWS building is now directed to a recycling separator system, recently installed inside of the HFTO building (Figure 2-5). The waste water is collected in the HWS building's indoor sump, from which it is pumped via a 2-inch transfer line to the HFTO building's indoor sump, where it mixes with the HFTO building's waste water. The water is recycled and stored in

a fiberglass holding tank to supply HFTO steam cleaning activities. To avoid the expense of laying a recycled water line from the HFTO building to the HWS building, the wireline steam cleaning operations are supplied with fresh water. The outdoor sump which was used as part of one of the leach field systems has been abandoned and filled with dirt.

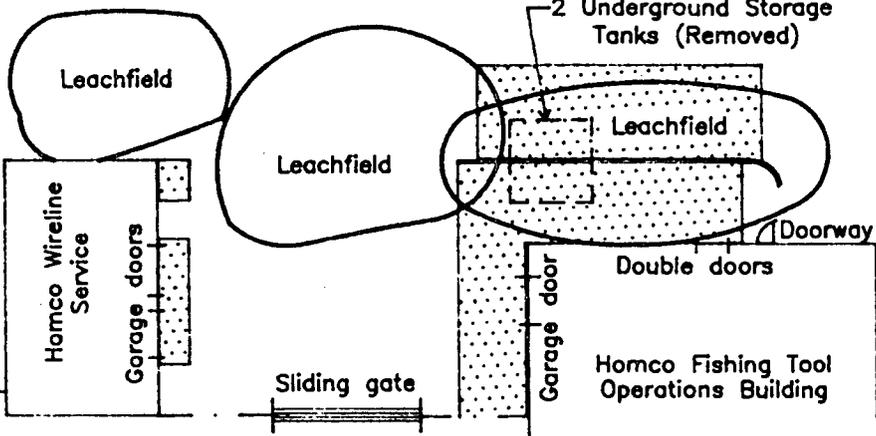
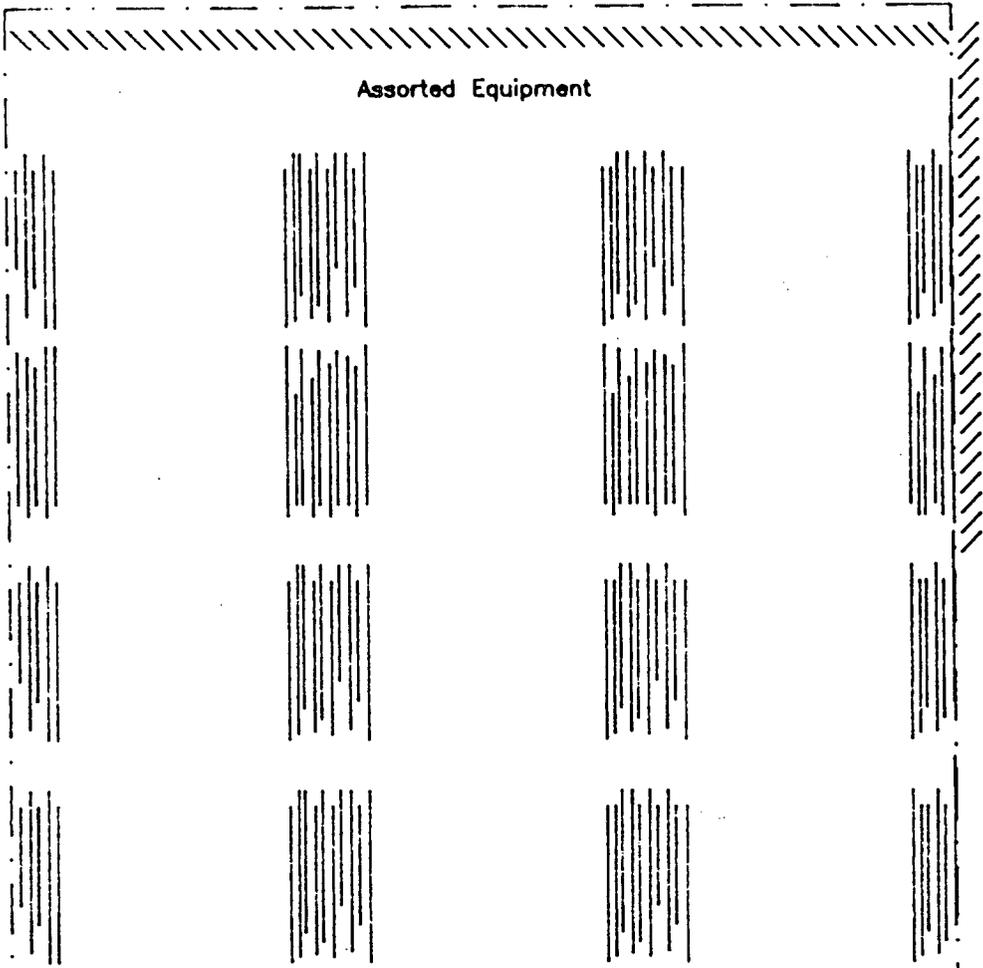
The subsurface conditions recorded during Phase II excavation activities suggest that the soils in which the leach fields were installed consist primarily of relatively permeable, cobbly, very coarse sandy gravel. The presence of an apparently massive sandstone or cobblestone unit underlying the gravel at approximately 4- to 6-feet below ground surface could preclude vertical migration of leach-field constituents, and inhibit horizontal flow. As a result, it is possible that the wastes present in the leach fields north of the HWS building and north-northwest of the HFTO building (Figure 2-4) may have commingled and become one common leach field. This theory is supported by information collected in the field during Phase II excavations, which indicates that the leach field to the west-northwest of the HFTO building extends farther to the west than originally anticipated.

Sanitary wastes from the HFTO and HWS buildings are discharged to separate septic systems located near the southeast and northeast corners of each building, respectively.

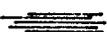
2.3.3 Fuel Storage

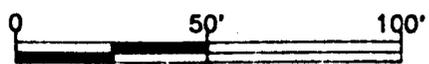
Currently, the facility uses one, 2000-gallon (gal) aboveground fuel tank to store diesel. Two, 2000-gal underground storage tanks, one used for gasoline and the other diesel, were removed from the northwest corner of the HFTO building in July 1989 by Environmental Group Incorporated (EGI). In a closure report documenting tank removal operations, EGI stated that the diesel was observed to have leaked into the soil adjacent to the tank. In a remediation effort approved by the State of New Mexico Environmental Improvement Division (EID), diesel-contaminated soil was excavated and spread out over the yard to allow the hydrocarbons to volatilize.

Assorted Equipment

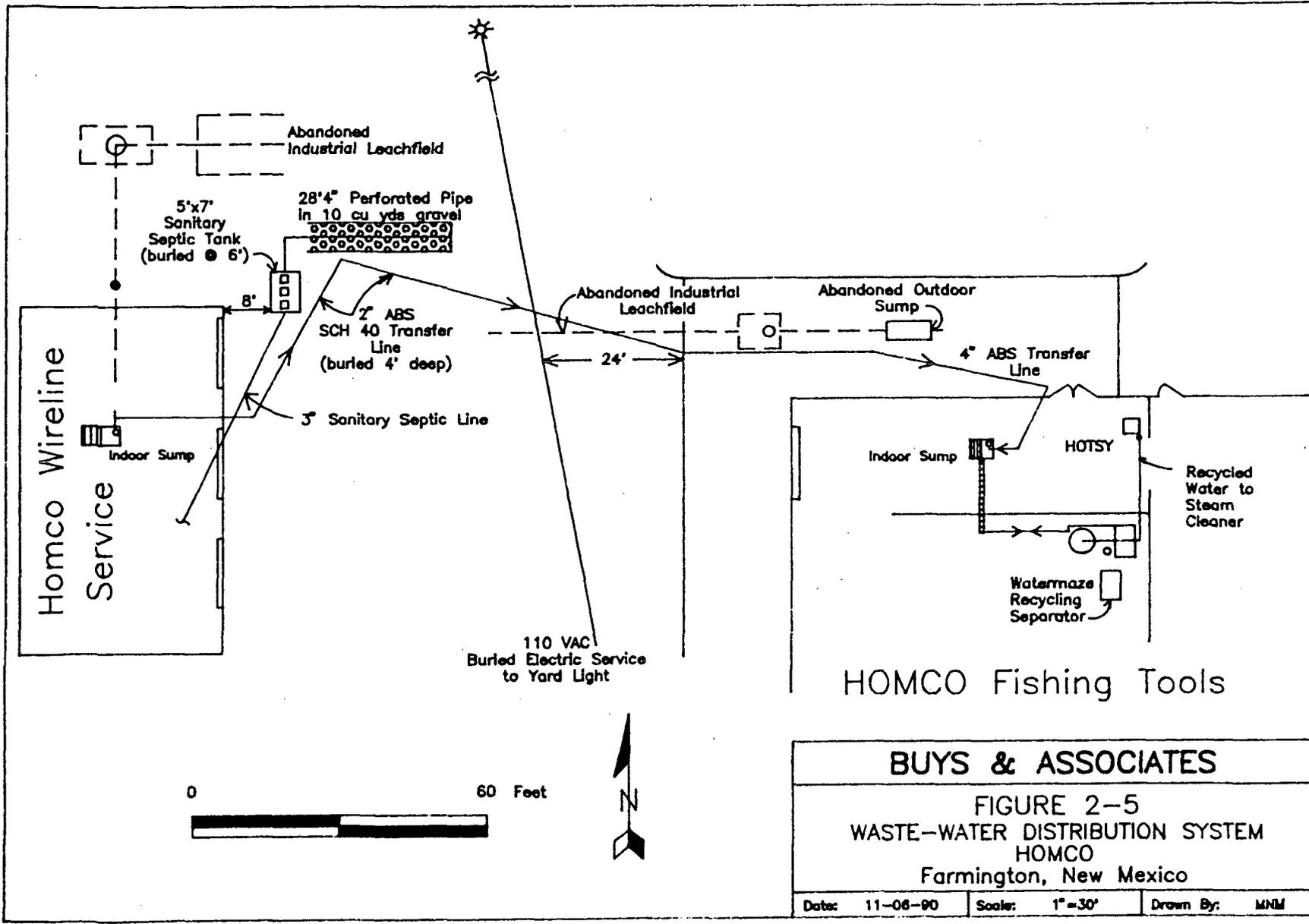


Legend

-  Berm
-  Pipe Racks
-  Cement Pads
-  Fence



BUYS & ASSOCIATES		
FIGURE 2-4		
APPROXIMATE LOCATIONS OF LEACHFIELDS HOMCO Farmington, New Mexico		
Date: 11-06-90	Scale: 1" = 50'	Drawn By: MNM



2.3.4 Processes and Waste

The oilfield equipment rental operations performed at this facility involve three primary processes: steam cleaning of returned equipment; inspection; and painting and welding. Each process produces a unique waste type.

Various forms of waste disposal are practiced at the Farmington yard, and the specific nature of each depends on the type of waste generated. Office trash, used (drained) oil filters, and empty paint cans from the site are put into a dumpster and disposed of at the county landfill. Empty drums are returned to the vendor, used as trash containers at the site, or disposed of at the county landfill. Scrap metal generated at the site is piled in the yard, however, not much scrap metal is produced during normal operations. Used oil is stored in drums located adjacent to the HWS building and hauled away for recycling every six months by Approved Oil of Commerce City, Colorado. In the past, sludge from the leach field sumps was periodically pumped out and hauled away to an approved disposal facility. In the early spring of 1990, the contents of the sumps were pumped and disposed of on the ground surface in the northeast corner of the site.

2.4 PHYSICAL SITE CHARACTERIZATION

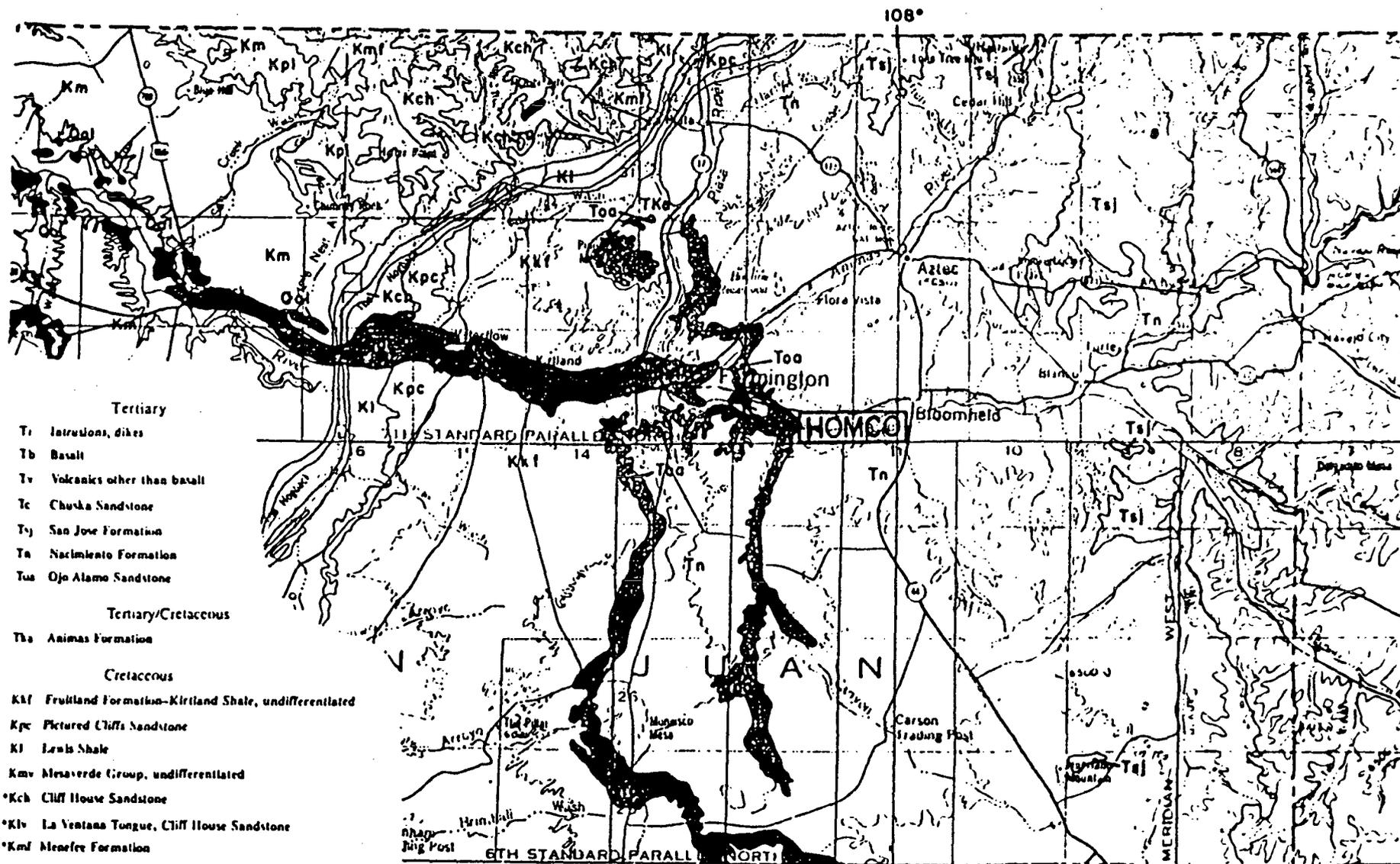
2.4.1 Local Geology

HOMCO Location 151 is underlain by sandstones and mudstones of the Nacimiento formation (Figure 2-6). The sandstones are medium to very coarse-grained, immature to submature arkoses. Mudstones of the Nacimiento formation display popcorn weathering characteristics typical of swelling clays.

2.4.5 Local Hydrogeology

Reported yields of wells screened in the Nacimiento formation range from 16 to 100 gallons per minute (gpm). There is no hydrogeologic data currently available for the Nacimiento formation in this area, however, transmissivities have been estimated at 100 ft²/day for some of the coarser continuous sandstone bodies. Specific conductivity values less than 1,500 μ mhos were measured in ground water from wells screened in these extensive sandstones.

In the Phase II Site Characterization report (B&A, September 1990), B&A reported that the depth to ground-water in the immediate vicinity was approximately 140-ft below ground surface, based on information provided by personnel from an adjacent facility (Walter's Drilling). This information was reportedly collected during well installation activities supposedly conducted in Walter's yard. It was recently disclosed, however, that Walter's Drilling had not, in fact, installed a well on their property, and that the only drilling that had been conducted in their yard was to test the equipment on a new rig (pers. conv. with Mr. Gary Brink, October, 1990). Ground water was never encountered during the drilling exercise. Mr. Brink believes the depth to ground water to be closer to 30- to 40-ft below ground surface in the immediate vicinity.



- Tertiary**
- Ti Intrusions, dikes
 - Tb Basalt
 - Tv Volcanics other than basalt
 - Tc Chuska Sandstone
 - Tsj San Jose Formation
 - Tn Nacimiento Formation
 - Tua Ojo Alamo Sandstone

- Tertiary/Cretaceous**
- Tba Animas Formation

- Cretaceous**
- Kkf Fruitland Formation-Kirtland Shale, undifferentiated
 - Kpc Pictured Cliffs Sandstone
 - Kl Lumb Shale
 - Kmv Mesaverde Group, undifferentiated
 - *Kch Cliff House Sandstone
 - *Klv La Ventana Tongue, Cliff House Sandstone
 - *Kmf Menefee Formation
 - *Kpl Point Lookout Sandstone
 - Kms Sata Tongue, Mancos Shale
 - *Kph Hosta Tongue, Point Lookout Sandstone
 - *Kcc Crevasse Canyon Formation
 - Kmm Melatto Tongue, Mancos Shale
 - *Kg Gallup Sandstone
 - Km Mancos Shale, undifferentiated
 - Kd Dakota Sandstone; includes Burns Canyon Formation (north)
 - *a Mesaverde Group

BUYS & ASSOCIATES

**FIGURE 2-6
REGIONAL GEOLOGY
HOMCO
Farmington, New Mexico**

DATE: 7-30-90 DRAWN BY: MNM

SCALE: SHEET: 1 of 1

3.0 REMEDIAL APPROACH

3.1 SUMMARY

The remedial action proposed for the HOMCO 151 facility involves excavating contaminated dirt from the industrial leach fields and the northeast corner of the yard, and transporting it to a staging area in the northwest corner of the yard for temporary storage and treatment. The areas designated for excavation (Areas A, B, and C) and staging (Area D), are shown in Figure 3-1.

Area A represents the location for the building addition scheduled to be constructed in March of 1991. Area A also includes two concrete pads, below which lies the abandoned septic leach field. Two underground fuel storage tanks were removed from this area in July, 1989. Diesel had reportedly leaked out of one of the tanks into the surrounding soil. The contaminated dirt was removed and dumped in the northeast corner of the yard. During Phase II excavation activities, B&A reported smelling diesel in a trench dug along the east edge of the concrete pads, which suggests that some diesel-contaminated soil is still present in this Area.

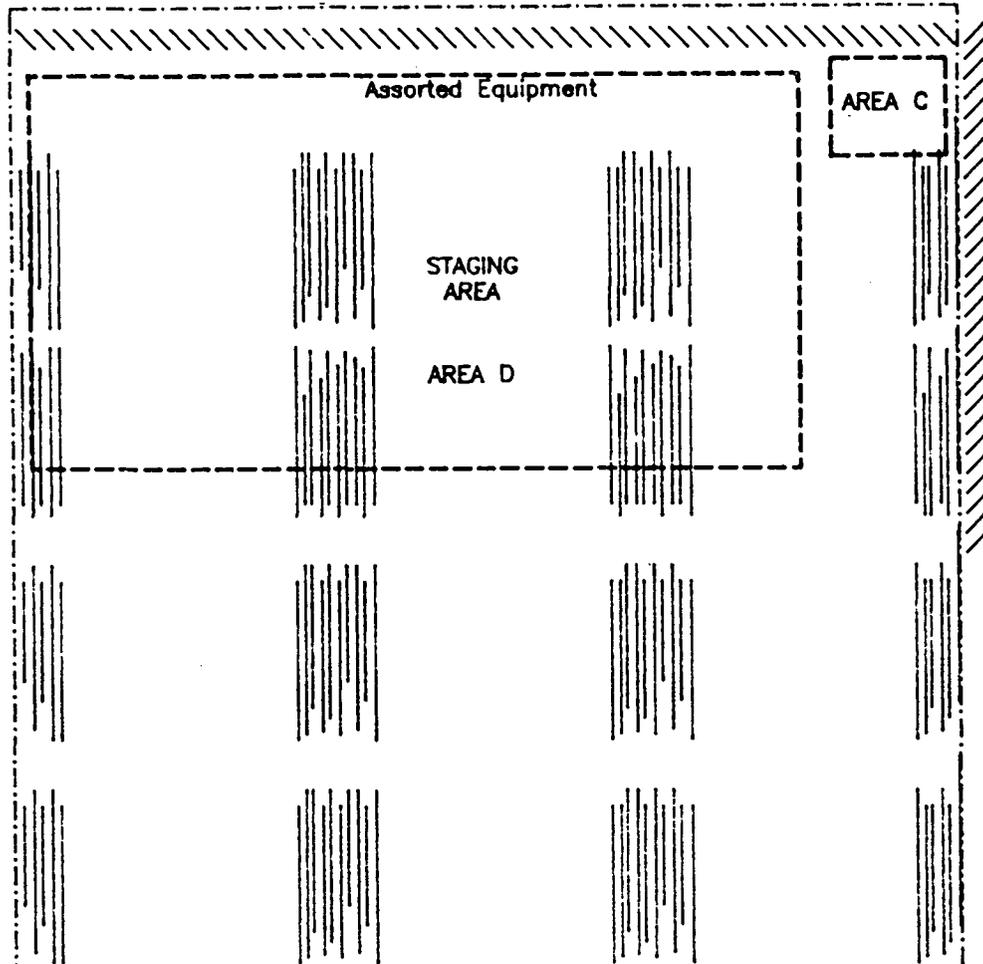
Area B represents the estimated extents of the industrial leach fields identified during Phase II. TPH constituents in concentrations exceeding NMOCC action limits were detected in sludge and soil samples collected in this area from the leach field which services the Fishing Tools building (Figures 3-2 and 3-3).

Area C represents the location where diesel-contaminated soils were disposed of in July, 1989 following excavation of the underground fuel storage tanks.

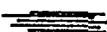
Area D represents the staging area in which the contaminated soil removed during excavation will be spread out and allowed to weather prior to disposal at the local landfill.

3.2 MOBILIZATION

B&A has contracted Environmental Chemical Corporation (ECC) to provide the personnel and equipment required for all excavation and dirt moving activities. ECC and B&A will mobilize all necessary personnel and equipment to the site as soon as site preparation activities are complete.



Legend

-  Berm
-  Pipe Racks
-  Abandoned Lines
-  Cement Pads
-  Fence

BUYS & ASSOCIATES		
FIGURE 3-1		
PROPOSED AREAS OF REMEDIATION		
HOMCO		
Farmington, New Mexico		
Date: 11-08-90	Scale: 1"=50'	Drawn By: MRM

Public Road

Assorted Equipment

Benzene	5.0 mg/kg
Ethyl Benzene	7.0 mg/kg
Toluene	7.0 mg/kg
Xylene	23.8 mg/kg
TPH Diesel	3130 mg/kg
TPH Varelol	2840 mg/kg
Barium	0.7 mg/l
Lead	1.09 mg/l

Pit 1a

Pit 2a

Pit 2b

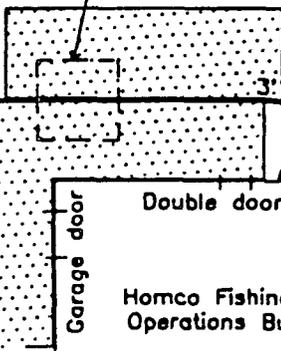
2 Underground Storage Tanks (Removed)

3' high curb

Homco Wireline Service

Garage doors

Benzene	4.9 mg/kg
Ethyl Benzene	7.0 mg/kg
Toluene	5.0 mg/kg
Xylene	28 mg/kg
TPH Diesel	1200 mg/kg
TPH Varelol	1070 mg/kg
Barium	0.8 mg/l
Cadmium	0.01 mg/l
Lead	1.32 mg/l



Double doors

Homco Fishing Tool Operations Building

Garage door

Sliding gate



Legend

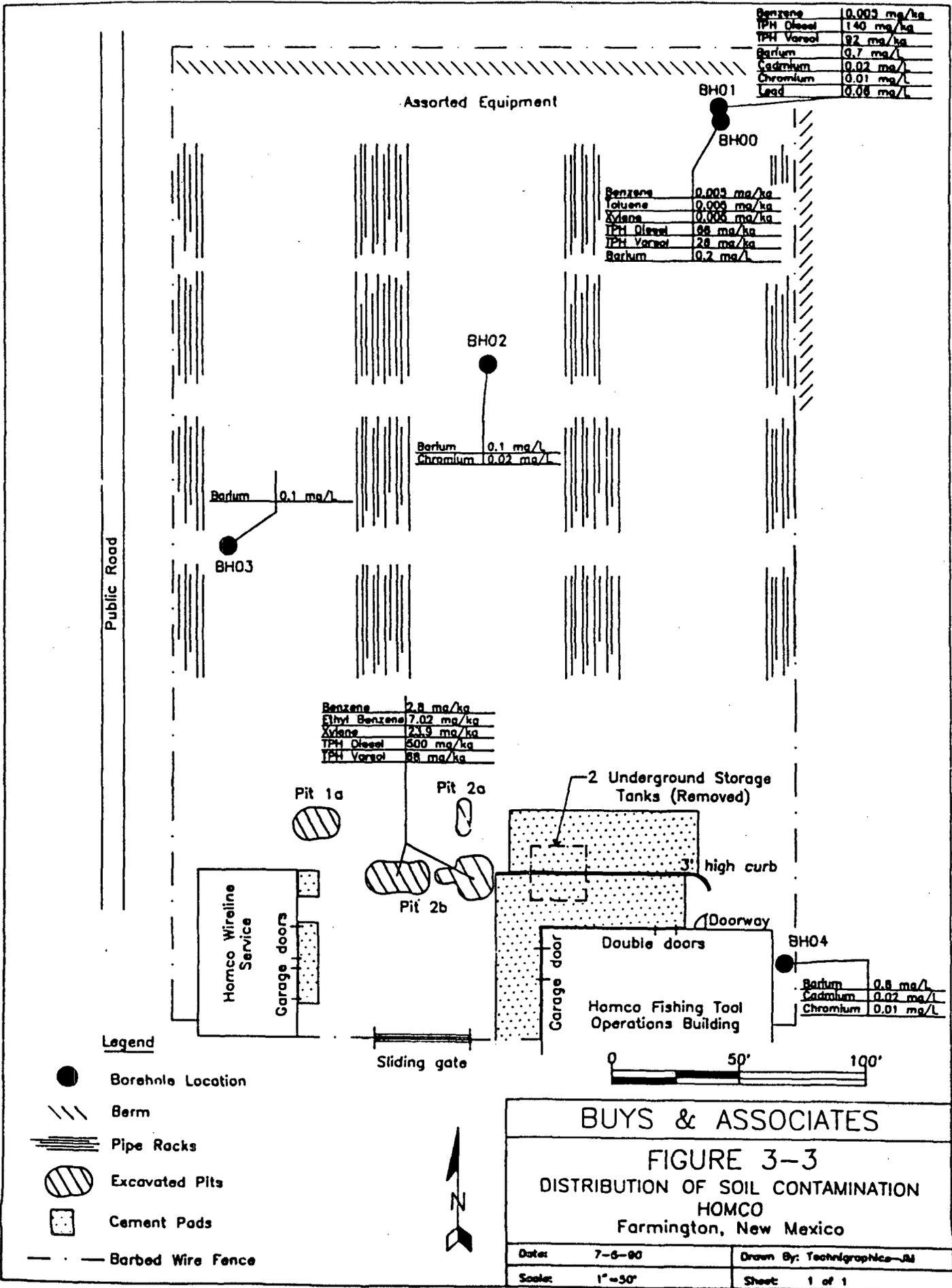
- Borehole Location
- Berm
- Pipe Racks
- Excavated Pits
- Cement Pads
- Barbed Wire Fence



BUYS & ASSOCIATES

FIGURE 3-2
DISTRIBUTION OF SLUDGE CONTAMINATION
HOMCO
Farmington, New Mexico

Date: 7-5-90	Drawn By: Technographics-JM
Scale: 1"=50'	Sheet: 1 of 1



Benzene	0.003 mg/kg
TPH Diesel	140 mg/kg
TPH Vapor	82 mg/kg
Barium	0.7 mg/L
Cadmium	0.02 mg/L
Chromium	0.01 mg/L
Lead	0.06 mg/L

Assorted Equipment

Benzene	0.003 mg/kg
Toluene	0.009 mg/kg
Xylene	0.008 mg/kg
TPH Diesel	68 mg/kg
TPH Vapor	28 mg/kg
Barium	0.2 mg/L

Barium	0.1 mg/L
Chromium	0.02 mg/L

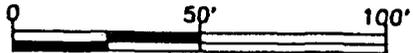
Barium	0.1 mg/L
--------	----------

Benzene	2.8 mg/kg
Ethyl Benzene	7.02 mg/kg
Xylene	23.9 mg/kg
TPH Diesel	500 mg/kg
TPH Vapor	88 mg/kg

Barium	0.8 mg/L
Cadmium	0.02 mg/L
Chromium	0.01 mg/L

Legend

- Borehole Location
- /// Berm
- ||||| Pipe Racks
- ⊘ Excavated Pits
- Cement Pads
- - - Barbed Wire Fence



BUYS & ASSOCIATES

FIGURE 3-3
DISTRIBUTION OF SOIL CONTAMINATION
HOMCO
Farmington, New Mexico

Date: 7-6-90	Drawn By: Technigraphics-JM
Scale: 1"=50'	Sheet: 1 of 1

3.3 SITE PREPARATION

Prior to the on-site arrival of ECC and B&A, HOMCO personnel will remove all equipment from the staging area, the concrete pads, the area north of the Fishing Tools building, and the area north of the Wireline Service building. HOMCO will also arrange for the necessary utility companies to clear each Area for underground lines. B&A has contracted Ivie's Remodeling Specialists from the Farmington area to break up and dispose of the concrete pads around the Fishing Tools building. The most appropriate method of disposal for the concrete will be determined based on the condition of the rubble with respect to contamination.

3.4 EXCAVATION

3.4.1 Health- and Safety-Monitoring

B&A will be responsible for monitoring the breathing zone for volatile organic vapor emissions using an Photoionization Detector (OVM) during all remedial activities. B&A will determine the proper level of personnel protection based on OVM responses, wind direction, and field conditions encountered. Specific procedures by which personnel will be instructed to upgrade are discussed in the site Health and Safety Plan (HASP) (Attachment A).

3.4.2 Excavation Procedures

All excavation activities will be conducted under the direct supervision of B&A to ensure compliance with the Occupational Safety and Health Administration (OSHA) standards established for excavations (29 CFR Part 1926 Subpart P). HOMCO will be responsible for clearing the ground surface in each Area of all equipment, machinery, tools, and miscellaneous debris which could interfere with utility clearance or remedial activities. Every effort will be made to avoid direct interference with HOMCO operations during remedial activities.

Excavation will begin in Area A, as construction activities for the building addition are scheduled to begin as soon as remediation in the Area is complete. Excavation will continue in the northeast corner of the yard, Area C, followed by the area north of the Fishing Tools building in Area B. The remainder of Area B, between the HWS and HFTO buildings, will be excavated last as this area is most heavily trafficked.

Each Area will be excavated to a depth at which contamination is not detectable by the OVM, visual inspection, or by smell, or refusal is experienced due to impenetrable lithology, whichever occurs first. B&A will monitor the excavated material in the backhoe bucket for volatiles with the OVM. OVM responses will be recorded in the field log book. Under no circumstance will any personnel be permitted to enter any open excavation greater than 4-ft deep without proper safety restraints (i.e., shoring, trench box, etc.).

Results of previous excavations completed near the HWS and HFTO buildings indicate that the top 3- to 4-ft of soil above the leach fields is not contaminated. Therefore, this soil will be stockpiled next to the excavation and used as backfill once the excavation is complete. The contaminated soils and sludge encountered below the uncontaminated soils will be removed and hauled via a backhoe to the staging area, where they will be spread out and allowed to weather.

3.4.3 Staging Area for Contaminated Soils

The staging area (Area D) will be used for the storage and treatment of the contaminated soils removed during excavation. Area D will be located in the far northwest corner of the yard (Figure 3-1) and will cover an area approximately 200-ft long by 100-ft wide. Berms will be constructed on each side of the area to prevent surface runoff from contacting the surrounding soils, and a 6-mil plastic liner will be used to prevent the vertical migration of leachate from impacting the underlying soils. After the contaminated fill has been completely removed from the leach field, a composite sample of the material will be collected and analyzed for Chlorinated Hydrocarbons by EPA Method 8120, TCLP Volatile Organics (BTEX), and TCLP Metals. Depending on the analytical results, the soils will either be transported to the local landfill for disposal as a non-hazardous waste, or to a state-approved hazardous waste dump site for disposal as oil-contaminated waste.

3.4.4 Backfilling

With the exception of Area A, each Area will be backfilled to original grade using clean dirt from an off-site source once the excavation is complete. The backfill will be compacted and mounded to compensate for initial subsidence. Area A will be backfilled according to construction specifications as determined by the contractor assigned to the construction of the building addition. To the extent possible, each Area will be backfilled as soon as the excavation process is complete.

If an excavation must be left open overnight, warning tape and flagging will be erected around the perimeter to prevent personal injury caused by accidental access.

4.0 SAMPLING AND ANALYSIS

4.1 SAMPLE COLLECTION

B&A will collect composite samples of the treated soils one month after excavation. Samples will be collected using hand auger drilling techniques and placed in glass jars or clear polybutyrate tubes, sealed, labeled, and stored on ice at 4 degrees Centigrade (^oC). The samples will be shipped via overnight courier to Core Laboratory in Aurora, Colorado for TCLP metals and volatile organics analyses.

4.2 DISPOSAL

Depending on analytical results, the treated soils will be disposed of either as non-hazardous waste the local landfill, or as oil-contaminated waste at an approved disposal facility. Ivie's Remodeling Specialists have been contracted to arrange for the loading and transport of the treated soils to the appropriate facility for disposal.

5.0 COST ESTIMATE

The estimated cost for the remedial effort at the HOMCO 151 facility is summarized under six separate Tasks in Table 5-1. Each Task and associated costs are discussed below.

- TASK 1 Preparation of the Work Plan and scheduling.
- TASK 2 Break up concrete pads and divider wall at the north end of the HFTO building and haul rubble to a local facility for disposal, and stockpile on-site an estimated 1000 cubic yards of roadbase material to use as backfill. Ivie's Remodeling Specialists have been contracted to provide the personnel and equipment to perform these services under the direct supervision of B&A. Ivie's has quoted a cost of \$4,295.00 to complete this Task, pending acceptance for disposal by the local sanitary landfill. If the concrete is contaminated and cannot be disposed of at this facility, it will be hauled to Envirotech (a state approved hazardous waste disposal facility) for disposal. As a result, a significant increase in the cost for disposal will be incurred. Estimated time for completion is 20 hours.
- TASK 3 Clear a staging area approximately 100-ft by 200-ft in the northwest corner of the yard, excavate contaminated soils from the leach fields and the northeast corner of the yard, stockpile and spread out the contaminated soils in the staging area, and backfill and compact the excavations with roadbase material. Environmental Chemical Corporation has been contracted to provide the personnel and equipment to perform these services under the direct supervision of B&A. Estimated time for completion is 50 to 60 hours.
- TASK 4 Sample and analyze the soils in the staging area for TCLP. The laboratory cost for these analyses is approximately \$880.00. The estimated time for completion is 10 hours to collect the samples and approximately three weeks to have them analyzed.
- TASK 5 Haul soils from the staging area to appropriate facility for disposal, based on results of TCLP analyses. Ivie's Remodeling Specialists have been contracted to arrange for the loading and transport of the soils under the direct supervision of B&A. The cost for disposal at Envirotech is \$12.00 per yard. One thousand yards (\$12,000.00) was used to estimate the cost of this Task. If the organic constituents have sufficiently volatilized and their concentrations are below the TCLP and NMOCC action limits, the soils can be disposed of at the local sanitary landfill for approximately one third the disposal cost. The estimated time for completion is 2 to 3 days.
- TASK 6 Preparation of final report.

**SCHEDULE OF COSTS AND
MANHOURLY EXPENDITURES**

TASKS IN CONTRACT

CATEGORY		RATE	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	TOTAL	
L A B O R	PRINCIPAL	95	95					95	190	
	SENIOR STAFF	75	75					150	225	
	PROJECT STAFF	55	2,200	1,100	2,750	550	1,650	550	8,710	
	TECHNICIAN	35								
	DRAFTING	30	100					150	250	
	CLERICAL & ACCOUNTING	30								
TOTAL B&A MANHOURS			45.3	20	50	10	30	18	173.3	
TOTAL B&A LABOR DOLLARS			2,470	1,100	2,750	550	1,650	945	9,465	
O U T S I D E S E R V I C E S	COMMUNICATIONS		100	20	20			100	240	
	REPRODUCTION		20					75	95	
	AIR TRAVEL			318	318	318	318		1,284	
	CAR RENTAL	40		40	200	40	80		360	
	HOTEL	40		40	200	40	40		320	
	PER DIEM	25		50	125	35	50		280	
	MISC. FIELD SUPPLIES			100	750				850	
	EXPRESS MAIL					50			50	
	EQUIPMENT/SUBCONTRACTOR									
	CONTRACTOR			10,795	15,500			20,750		47,045
LABORATORY (CORE Labs)						880			880	
SURVEYOR										
SUBTOTAL OUTSIDE SERVICES			120	11,361	17,111	1,381	21,238	175	51,384	
HANDLING AND FEE ON OTHER COSTS		15%	18	1,704.15	2,566.65	204.15	3,185.40	26.25	7,704.60	
TOTAL ESTIMATED COSTS PER TASK			2,608	14,165.15	22,427.65	2,115.15	26,071.40	1,146.25	68,533.60	