

GW - 73

**GENERAL
CORRESPONDENCE**

YEAR(S):
2006-1991



BILL RICHARDSON
GOVERNOR

**State of New Mexico
ENVIRONMENT DEPARTMENT**

**Ground Water Quality Bureau
1170 North Solano Drive
Suite M, Room 141
Las Cruces, New Mexico 88001
Telephone (505) 524-6300
Fax (505) 526-3861**



RON CURRY
SECRETARY

DERRITH WATCHMAN MOORE
DEPUTY SECRETARY

RECEIVED

AUG 24 2005

OIL CONSERVATION
DIVISION

August 18, 2005

Mr. Darwin Thompson, Facility Manager
Schlumberger Oilfield Services
Hobbs Operating Center
P.O. Box 300
Artesia, New Mexico 88210

RE: Notification of Contaminant Detection, Hobbs, New Mexico

Dear Mr. Thompson:

The New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) referred a site to the Ground Water Quality Bureau (GWQB) in Hobbs concerning organic solvents concentrations increasing in ground water monitoring wells installed at the site to assess petroleum hydrocarbon contamination. The site is Hines Super Shell gas station located at the intersection of Grimes, Bender, and the Lovington Highway (NM Hwy 18). The solvent contamination is regulated by Water Quality Control Commission (WQCC) standards and/or listed as toxic pollutants under WQCC Regulation 20.6.2.3103 and 7.VV NMAC, respectively. The GWQB determined through the PSTB files that the solvent contamination originates from the Schlumberger Hobbs Operating Center, 1105 W. Bender, immediately upgradient of the site. The Hobbs Operating Center is regulated pursuant to the WQCC Regulation by the Oil Conservation Division.

The PSTB will proceed with site closure including plugging and abandonment of site monitoring wells under the New Mexico Environmental Improvement Board Regulations. Because the site monitoring wells intercept shallow ground water solvent contamination originating from the Hobbs Operating Center, NMED hereby notifies Schlumberger and its predecessor, Dowell, that it is advisable to enter property access and/or well access agreements with Hines Super Shell management if the site monitoring wells are planned for future use.

Mr. Darwin Thompson
August 18, 2005
Page 2

Please feel free to call me at (505) 524-6300 if I can assist in the arrangements to access the wells. Thank you for your attention in this matter.

Sincerely,



Christopher Whitman, Geoscientist
Ground Water Quality Bureau

cc: Judy Carley, Schlumberger, QHSE Dept., 200 Gillingham Ln., Sugarland, TX 77478
Joyce Shearer, PSTB - Santa Fe
T.C. Shapard, PSTB - District 4 Office 1914 W. 2nd St., Roswell, NM 88201
Jack Ford, NM EMNRD, OCD - Santa Fe
ROS Reading File

Environmental Oversight, Inc.

January 31, 2005

GW-73

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

RE: 2004 Annual Report for the Schlumberger Oilfield Services (Dowell) Facility in Hobbs,
New Mexico

Dear Mr. Ford:

On behalf of Schlumberger Oilfield Services (Dowell), enclosed are two copies of the 2004 Annual Report for the facility in Hobbs, New Mexico. The results of the fourth quarter ground-water monitoring event for 2004 are included in the annual report. An electronic version of the report is being sent via e-mail. If you have any questions concerning the results please feel free to contact me at (281) 285-8498.

Sincerely,


John A. Miller

JM:co

cc: Wayne Price, NMOCD
Western Water Consultants, Inc.

14019 S.W. Freeway, Suite 301, PMB187
Sugar Land, Texas 77478
281-285-8498
jmillerr11@slb.com

Environmental Oversight, Inc.

February 17, 2004

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

RECEIVED

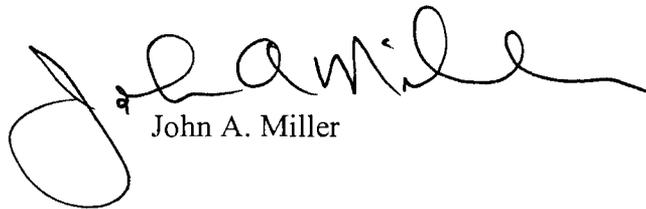
MAR 01 2004
Environmental Bureau
Oil Conservation Division

RE: 2003 Annual Report for the Schlumberger Oilfield Services (Dowell) Facility in Hobbs,
New Mexico

Dear Mr. Ford:

On behalf of Schlumberger Oilfield Services (Dowell), enclosed are two copies of the 2003 Annual Report for the facility in Hobbs, New Mexico. The results of the fourth quarter ground-water monitoring event for 2003 is included in the annual report. An electronic version of the report is being sent via e-mail. If you have any questions concerning the results please feel free to contact me at (281) 285-8498.

Sincerely,



John A. Miller

JM:
cc: Wayne Price, NMOCD
Western Water Consultants, Inc.

14019 S.W. Freeway, Suite 301, PMB187
Sugar Land, Texas 77478
281-285-8498
jmill11@slb.com

Schlumberger

Via Certified Mail # 7001 1940 0006 6414 8692

October 24, 2003

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

Re: Schlumberger Technology Corporation
1105 West Bender, Hobbs, NM 88240

RECEIVED

NOV 05 2003

OIL CONSERVATION
DIVISION

Dear Sir or Madam:

We received your report summarizing the findings during your visit of our facility on September 24, 2003. We appreciate your positive comments made during the audit and are addressing the areas where we need to make improvements.

The air compressor area and hydrocarbon stains in the truck parking area are being treated to remove the hydrocarbons.

The work plan process has been initiated to close the sumps at the old washbay and the old laboratory. This is being coordinated with the OCD Hobbs office.

The empty drum storage area has been rearranged and procedures have been modified to ensure that the empty drums are being stored properly.

If you have any other comments or concerns please feel free to contact Dean Hillenga, Operations Manager or myself at (505) 393 6186.

Sincerely,



Darwin Thompson
Facility Manager



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop
Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

October 1, 2003

Mr. Darwin Thompson
Schlumberger Oilfield Services
1105 West Bender
Hobbs, New Mexico 88240

**RE: Facility Inspection
Hobbs Service Facility, GW-073
Lea County, New Mexico**

Dear Mr. Thompson:

The New Mexico Oil Conservation Division (OCD) on September 24, 2003, along with Schlumberger Oilfield Services personnel Mr. Darwin Thompson, Mr. Dean Hillenga, and Mr. Jan Grimes inspected the Hobbs Service Facility. The purpose was general inspection for the discharge permit for this facility. The information that follows will address the concerns of the OCD at the above referenced facilities.

Note: For Schlumberger Oilfield Services information the OCD has enclosed copies of photos taken during the inspection.

- A. The overall housekeeping and pollution prevention in place at the site was generally good to prevent discharges to the ground surface. It should be noted, however, some hydrocarbon staining was noted that needs to be addressed for immediate cleanup.
- B. Some empty drums were stored improperly and require correction.

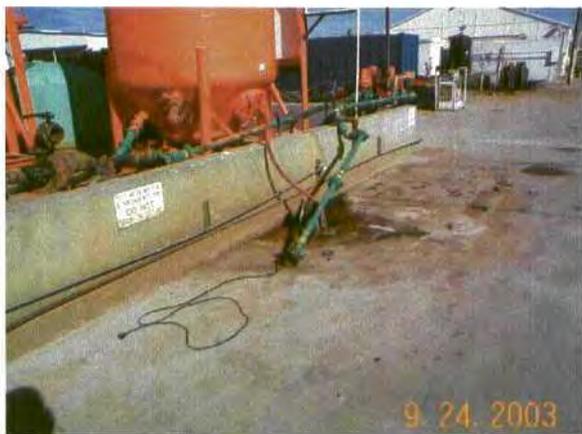
The OCD would like to thank the Schlumberger Oilfield Services personnel for their professional conduct during the site visits. If there any questions regarding this report feel free to call me at (505)-476-3489.

Sincerely,

W. Jack Ford, C.P.G.
Environmental Engineer
OCD Environment Bureau

cc: OCD Hobbs District Office

Hobbs Service Facility



Environmental Oversight, Inc.

March 12, 2003

RECEIVED

APR - 1 2003
Environmental Bureau
Oil Conservation Division

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

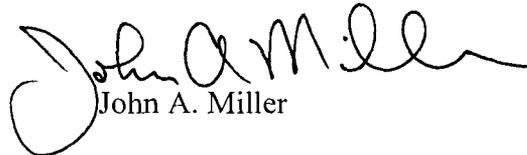
GW-13

RE: 2002 Annual Report for the Schlumberger Oilfield Services (Dowell) Facility in Hobbs,
New Mexico

Dear Mr. Ford:

On behalf of Schlumberger Oilfield Services (Dowell), enclosed are two copies of the 2002 Annual Report for the facility in Hobbs, New Mexico. The results of the fourth quarter ground-water monitoring event for 2002 is included in the annual report. An electronic version of the report is being sent via e-mail. If you have any questions concerning the results please feel free to contact me at (281) 285-8498.

Sincerely,


John A. Miller

JM:
cc: Western Water Consultants, Inc.

14019 S.W. Freeway, Suite 301, PMB187
Sugar Land, Texas 77478
281-285-8498
jmillerr11@slb.com

Ford, Jack

From: Darwin Thompson [thompson@hobbs.oilfield.slb.com]
Sent: Wednesday, October 31, 2001 2:49 PM
To: jwford@state.nm.us
Cc: govenlock@hobbs.oilfield.slb.com
Subject: renewal application for GW 073



Hobbs discharge plan
renewal 1...



ATT14261.txt

Jack, I have attached the form with answers to the questions for the renewal of Dowell's Hobbs facility discharge permit GW 073. The hard copies of the signed application, all needed attachments, and a copy of all forms on a disk left on Fed Ex today to the 1220 South St. Francis Drive address. I will forward you the analytical results for the waste water and cement residue for the cement testing area under separate cover.

I will make a copy of the entire application and forward it to the OCD Hobbs District office for their records.

If you need any other information, or have questions, please contact me via e-mail or by phone at the Artesia office. (505) 748 1392.

Thank you for your assistance in processing this application.

**DISCHARGE PLAN GW-073
FOR DOWELL SCHLUMBERGER
1105 WEST BENDER
HOBBS, NEW MEXICO
RENEWAL APPLICATION**

4. Landowner: Dowell Division of Schlumberger Technologies Corporation
1105 West Bender
PO Box 640
Hobbs, New Mexico 88240
505 393 6186
5. Map for facility is included as Attachment 1
6. List of all materials stored or used at the facility are included as Attachment 2
7. Copies of analytical results for each waste stream are included as Attachment 3. The sources of effluent and waste solids from this facility include:
- A. Truck wash bay wastewater average daily volume is 3840 gallons.
 - B. Wastewater from cement testing facility average daily volume is 10 gallons.
 - C. Used engine oil is collected for recycling in the truck maintenance shop. Average daily volume is 20 gallons.
 - D. Sludge from truck wash bay consists of mud and soil that is removed from trucks and equipment during the washing process.
 - E. Cement residue is generated from washing of cups and other equipment used in the testing of cement samples in the cement testing area.
 - F. Used floor sweep is generated in the truck maintenance area in the process of covering and cleaning oil spills on the shop floor.
8. Liquid and solid waste collection and treatment procedures are as follows:
- A. Truck wash bay water is treated by transferring water through two mud-settling pits to remove silt and other solids. The water then passes through an oil separator to remove oil and other hydrocarbons before wastewater is sent to Hobbs municipal sewer treatment facility.
 - B. Mud and sludge for truck wash bay is collected in mud settling pits and then transferred to 20 yard roll-off bin. It is then analyzed and disposed of at an OCD approved waste disposal facility.
 - C. Wastewater from cement testing facility passes through a solids settling trap to remove fines from cleaning equipment used in the testing of cement samples. The water then is sent to Hobbs municipal sewer treatment facility.
 - D. The cement residue from the settling trap for the cement testing facility is collected in a settling trap and sent to an OCD approved landfill disposal site.
 - E. Used engine oil is collected from the truck shop and stored in above ground steel tanks enclosed in a steel containment. The oil is then pumped into transport tanks by an approved oil recycling company for treatment and recycling.
 - F. Used floor sweep is collected in containers in the truck maintenance shop and then transferred to the roll-off bin to be disposed of at an OCD approved landfill disposal facility.

9. Proposed modifications to the Hobbs facility consist of a new maintenance facility currently under construction. The facility will include 4 truck service bays. The facility will also include an enclosed truck wash bay with a double contained mud-settling pit. The office area will include several offices, a locker room and restrooms for equipment operators, a parts storage area, and a cement testing facility. The cement testing area will have all above ground containers for collecting cement residue from rinse water.

10. A routine inspection form is included in the enclosed Spill Prevention Control and Countermeasures Plan on page 21 as Attachment 4 and on page 26 as Attachment 9.

11. A spill contingency plan is included in the SPCC plan, specifically in section 4.0 on page 12. Reporting and cleanup instructions are included on pages 22-25 as Attachments 5-8 of the SPCC plan.

12. Geological/hydrological characteristics of the facility are as follows:

The geologic formation present at ground surface is the Tertiary Ogallala Formation, which consists of unconsolidated sands, silts, clays, and gravel, capped by caliche (Barnes 1976). The caliche cap at the site is approximately 25 to 35 feet thick and quite variable in thickness and composition. Beneath the caliche cap is orange-brown or yellow-brown fine-grained sand and sandstone with minor amounts of gravel. The thickness of the Ogallala is approximately 100 feet in the area (Barnes 1976). The Ogallala is underlain by red siltstones and claystones of Mesozoic age, referred to locally as the "red beds" (Richey et al. 1985).

The Ogallala Formation is the major aquifer in the Southern High Plains region and is pumped extensively for municipal, industrial, and agricultural purposes. Recharge to the Ogallala is primarily from infiltration of precipitation. Infiltration rates are locally variable, with highs occurring in areas such as the sand dune fields east of Hobbs and lows occurring where thick, extensive caliche layers are present.

Depth-to-water in the region has gradually increased over the past years because of excessive pumping. The water table at the site is approximately 68 to 70 feet below ground surface. The hydraulic gradient in the Ogallala aquifer near the site is approximately 15 feet per mile in a southeasterly direction (Cronin, 1969).

Ground water from the Ogallala is generally suitable for all purposes. Historical records indicate that total dissolved solids typically range from approximately 300 to 700 milligrams per liter (mg/L), chloride from 30 to 170 mg/L, and sulfate from 60 to 160 mg/L (Ash 1963).

Actual current analysis results of the ground water are included as Attachment 4.

13. There are no current plans to close this facility. If it were to be closed it would be closed in accordance with the Environmental Exit Survey Checklist enclosed as Attachment 5.

Ford, Jack

From: Inge, Richard
Sent: Friday, October 05, 2001 8:43 AM
To: EMNRD OCD - ARTESIA; EMNRD OCD - AZTEC; EMNRD OCD - HOBBS; EMNRD OCD - SANTA FE

At an RBDMS workshop last week, Ben and I learned that Microsoft changed the basic program of Access97 to something very different in Access 2000. As a result, Access no longer supports the way we have been running RBDMS.

We have been having one copy of RBDMS on a server with multiple users logging on to that one copy. This worked fine in Access 97. In Access 2000, this causes "...unexplainable errors or lost data." ("Access 2000 Developer's Black Book", Coriolis, 1999) We have certainly experienced this.

I am sending out instructions for downloading a new front-end locally to your machine. This should be done immediately by everyone using RBDMS. These instructions also include steps to be taken by those who have laptops that they take into the field. These procedures only need to be done once, and then again only when being instructed to replace that front-end. This should only occur when new enhancements or patches are applied to the Front-end. This should greatly improve the stability of RBDMS. RBDMS Admin II personnel should remove the network copy of the RBDMS front-end so that it is no longer being used on the network by anyone. (Do not delete it, just rename it something completely different or move it to a different location. The user queries in this front-end need to be migrated over to the back-end when RBDMS code is changed to handle this. Soon!)

I am also including instructions on how to attach the data once you are in RBDMS. This needs to be done the first time you bring up RBDMS on your machine. For lap-top users, you should do this everytime you get into RBDMS so you know exactly whether you are attached to you local back-end database or the network back-end.

If you have any questions, please contact your local RBDMS Admin II user:

Hobbs - Paul Kautz, Sylvia Dickey

Artesia - Gerry Guye

Aztec - Bruce Martin

Santa Fe - Richard Inge

Thanks.



Procedures to copy a
new RBDMS...



District Procedures to
attach ...



Santa Fe Procedures
to attach ...

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 12/05/01
or cash received on _____ in the amount of \$ 1,700.00
from Schlumberger Technology Corp.
for Hobbs Service Facility GW-073
Submitted by: [Signature] Date: 12/20/01
Submitted to ASD by: _____ Date: _____
Received in ASD by: _____ Date: _____
Filing Fee _____ New Facility _____ Renewal
Modification _____ Other _____
Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment _____

Schlumberger Schlumberger Technology Corporation
100 Gillingham Lane
Sugar Land, Texas 77478

Check No [REDACTED]
CITIBANK DELAWARE, A SUBSIDIARY OF
ONE PENN'S WAY
NEW CASTLE, DE 19720
62-20/311

PAY One thousand seven hundred and 00/100 Dollars

To the order of

Date 12/05/01

Amount *****\$1,700.00

STATE OF NEW MEXICO-ENVIRON. DEPT.
ATTN: CINDY ABEYTA
P.O. BOX 26110
SANTA FE, NM 87502

[Signature]
Authorized Signature
Second Signature Required Over \$50,000.00





Document No	Invoice No	Invoice Date	Net Amount	Reference # / Info	Company
1900435168	11/14/01	11/14/01	1,700.00	*fedex 202000 D.Thompson	Dowell

Vendor No *003060959

Sum Total

*****\$1,700.00



Document No	Invoice No	Invoice Date	Net Amount	Reference # / Info	Company
1900431161	111501 GW073	11/15/01	100.00	**fedex 202000 DThompson	Dowell

Vendor No *003060959

Sum Total

*****\$100.00

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 11/16/01,
or cash received on _____ in the amount of \$ 100.00

from Schlumberger Technology Corp.

for Habbs Service Facility GW-073

Submitted by: [Signature] (Family Name) Date: 12/20/01 (DP No.)

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee New Facility _____ Renewal

Modification _____ Other _____ (optional)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment _____

Schlumberger

Schlumberger Technology Corporation
100 Gillingham Lane
Sugar Land, Texas 77478

Check No [REDACTED]

CITIBANK DELAWARE, A SUBSIDIARY OF
ONE PENN'S WAY
NEW CASTLE, DE 19720

62-20/311

PAY One hundred and 00/100 Dollars

Date 11/16/01

Amount *****\$100.00

To the order of

STATE OF NEW MEXICO-ENVIRON. DEPT.
ATTN: CINDY ABEYTA
P.O. BOX 26110
SANTA FE, NM 87502

[Signature]
Authorized Signature
Second Signature Required Over \$50,000.00



AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

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

of 1 weeks.

Beginning with the issue dated

October 11 2001

and ending with the issue dated

October 11 2001

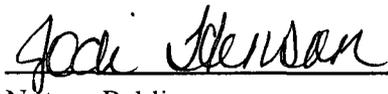


Publisher

Sworn and subscribed to before

me this 11th day of

October 2001



Notary Public.

My Commission expires
October 18, 2004
(Seal)

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

LEGAL NOTICE
October 11, 2001
NOTICE OF PUBLICATION

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

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

(GW-073) - Dowell Schlumberger, Mr. Darwin Thompson, P.O. Box 640, 1105 West Bander, Hobbs, New Mexico 88240, has submitted a discharge plan renewal application for their Hobbs Oil field Pumping Service Company facility located in the NW/4 NE/4, Section 28, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. All waste water is collected in an above ground closed tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of 78 feet with a total dissolved solids greater than 1100 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 1st day of October, 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY, Director
(seal)
#18474

01100060000 02550838

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

THE SANTA FE
NEW MEXICAN
Founded 1849

NM OIL CONSERVATION DIVISION
ATTN: ED MARTIN

AD NUMBER: 230860 ACCOUNT: 56689
LEGAL NO: 70188 P.O.#: 02199000249
176 LINES 1 time(s) at \$ 77.58
AFFIDAVITS: 5.25
TAX: 5.18
TOTAL: 88.01

AFFIDAVIT OF PUBLICATION

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 Con-

servation 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 1st day of October, 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY, Director
Legal #70188
Pub. October 12, 2001

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, M. M. Weideman being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #70188 a copy of which is hereto attached was published in said newspaper 1 day(s) between 10/12/2001 and 10/12/2001 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 12 day of October, 2001 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/s/ M. M. Weideman
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
12 day of October A.D., 2001

Notary Janet L. Montoya
Commission Expires 12/30/03



OFFICIAL SEAL
Janet L. Montoya
NOTARY PUBLIC - STATE OF NEW MEXICO
MY COMMISSION EXPIRES 12/30/03

Ford, Jack

From: Martin, Ed
Sent: Thursday, October 04, 2001 1:04 PM
To: Santa Fe New Mexican (E-mail)
Cc: Ford, Jack; Anaya, Mary
Subject: Legal Notices

Please publish the attached legal notices, one time only, on or before Friday, October 12, 2001.

Upon publication, please send to this office:

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

If you have any questions, please contact me via e-mail or (505) 476-3492.

Thank you.



Publ. Notice
GW-073.doc



Publ. Notice
GW-091,271,274.do...

Ford, Jack

From: Martin, Ed
Sent: Thursday, October 04, 2001 1:07 PM
To: Hobbs News-Sun Attn: Brenda Tison (E-mail)
Cc: Ford, Jack; Anaya, Mary
Subject: Legal Notices

Please publish the attached legal notice, one time only, on or before Friday, October 12, 2001.

Upon publication, please send to this office:

1. Invoice. Purchase order number is **02199000223**
2. Publisher's affidavit.

If you have any questions, please e-mail me or (505) 476-3492.

Thank you.



Publ. Notice
GW-073.doc

Ford, Jack

From: Ford, Jack
Sent: Monday, October 01, 2001 10:15 AM
To: Martin, Ed
Subject: Public Notice for GW-073



073PUB.DOC

NOTICE OF PUBLICATION

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

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

(GW-073) – Dowell Schlumberger, Mr. Darwin Thompson, P.O. Box 640, 1105 West Bender, Hobbs, New Mexico 88240, has submitted a discharge plan renewal application for their Hobbs Oilfield Pumping Service Company facility located in the NW/4 NE/4, Section 28, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. All waste water is collected in an above ground closed tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of 78 feet with a total dissolved solids greater than 1100 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

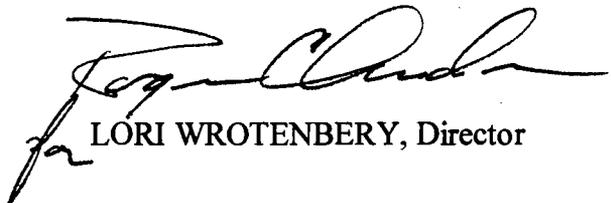
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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 1st day of October, 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



LORI WROTENBERY, Director

SEAL

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

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

Revised January 24, 2001

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

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

RECEIVED

(Refer to the OCD Guidelines for assistance in completing the application) **OCT 31 2001**

New Renewal Modification

Environmental Bureau
Oil Conservation Division

1. Type: Service Company
2. Operator: Dowell Schlumberger
Address: 1105 W. Bender, Hobbs, NM 88240
Contact Person: Darwin Thompson Phone: 505 748 1392
3. Location: NW 14 NE 14 Section 28 Township 18S Range 38E
Submit large scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

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

Name: Darwin Thompson

Title: Facility Manager

Signature: Darwin Thompson

Date: 10-30-01

**DISCHARGE PLAN GW-073
FOR DOWELL SCHLUMBERGER
1105 WEST BENDER
HOBBS, NEW MEXICO
RENEWAL APPLICATION**

4. Landowner: Dowell Division of Schlumberger Technologies Corporation
1105 West Bender
PO Box 640
Hobbs, New Mexico 88240
505 393 6186
5. Map for facility is included as Attachment 1
6. List of all materials stored or used at the facility are included as Attachment 2
7. Copies of analytical results for each waste stream are included as Attachment 3. The sources of effluent and waste solids from this facility include:
- A. Truck wash bay wastewater average daily volume is 3840 gallons.
 - B. Wastewater from cement testing facility average daily volume is 10 gallons.
 - C. Used engine oil is collected for recycling in the truck maintenance shop. Average daily volume is 20 gallons.
 - D. Sludge from truck wash bay consists of mud and soil that is removed from trucks and equipment during the washing process.
 - E. Cement residue is generated from washing of cups and other equipment used in the testing of cement samples in the cement testing area.
 - F. Used floor sweep is generated in the truck maintenance area in the process of covering and cleaning oil spills on the shop floor.
8. Liquid and solid waste collection and treatment procedures are as follows:
- A. Truck wash bay water is treated by transferring water through two mud-settling pits to remove silt and other solids. The water then passes through an oil separator to remove oil and other hydrocarbons before wastewater is sent to Hobbs municipal sewer treatment facility.
 - B. Mud and sludge for truck wash bay is collected in mud settling pits and then transferred to 20 yard roll-off bin. It is then analyzed and disposed of at an OCD approved waste disposal facility.
 - C. Wastewater from cement testing facility passes through a solids settling trap to remove fines from cleaning equipment used in the testing of cement samples. The water then is sent to Hobbs municipal sewer treatment facility.
 - D. The cement residue from the settling trap for the cement testing facility is collected in a settling trap and sent to an OCD approved landfill disposal site.
 - E. Used engine oil is collected from the truck shop and stored in above ground steel tanks enclosed in a steel containment. The oil is then pumped into transport tanks by an approved oil recycling company for treatment and recycling.
 - F. Used floor sweep is collected in containers in the truck maintenance shop and then transferred to the roll-off bin to be disposed of at an OCD approved landfill disposal facility.

9. Proposed modifications to the Hobbs facility consist of a new maintenance facility currently under construction. The facility will include 4 truck service bays. The facility will also include an enclosed truck wash bay with a double contained mud-settling pit. The office area will include several offices, a locker room and restrooms for equipment operators, a parts storage area, and a cement testing facility. The cement testing area will have all above ground containers for collecting cement residue from rinse water.

10. A routine inspection form is included in the enclosed Spill Prevention Control and Countermeasures Plan on page 21 as Attachment 4 and on page 26 as Attachment 9.

11. A spill contingency plan is included in the SPCC plan, specifically in section 4.0 on page 12. Reporting and cleanup instructions are included on pages 22-25 as Attachments 5-8 of the SPCC plan.

12. Geologic/hydrological characteristics of the facility are as follows:

The geologic formation present at ground surface is the Tertiary Ogallala Formation, which consists of unconsolidated sands, silts, clays, and gravel, capped by caliche (Barnes 1976). The caliche cap at the site is approximately 25 to 35 feet thick and quite variable in thickness and composition. Beneath the caliche cap is orange-brown or yellow-brown fine-grained sand and sandstone with minor amounts of gravel. The thickness of the Ogallala is approximately 100 feet in the area (Barnes 1976). The Ogallala is underlain by red siltstones and claystones of Mesozoic age, referred to locally as the "red beds" (Richey et al. 1985).

The Ogallala Formation is the major aquifer in the Southern High Plains region and is pumped extensively for municipal, industrial, and agricultural purposes. Recharge to the Ogallala is primarily from infiltration of precipitation. Infiltration rates are locally variable, with highs occurring in areas such as the sand dune fields east of Hobbs and lows occurring where thick, extensive caliche layers are present.

Depth-to-water in the region has gradually increased over the past years because of excessive pumping. The water table at the site is approximately 68 to 70 feet below ground surface. The hydraulic gradient in the Ogallala aquifer near the site is approximately 15 feet per mile in a southeasterly direction (Cronin, 1969).

Ground water from the Ogallala is generally suitable for all purposes. Historical records indicate that total dissolved solids typically range from approximately 300 to 700 milligrams per liter (mg/L), chloride from 30 to 170 mg/L, and sulfate from 60 to 160 mg/L (Ash 1963).

Actual current analysis results of the ground water are included as Attachment 4.

13. There are no current plans to close this facility. If it were to be closed it would be closed in accordance with the Environmental Exit Survey Checklist enclosed as Attachment 5.

Hobbs, NM

SARA Plot Plan Legend

January 27, 1999

1. SAND SILOS
2. CEMENT AND DRY CHEMICAL SILOS
3. RAILROAD SPUR
4. DRY CHEMICAL STORAGE-CEMENT
5. COMPRESSOR STATION
6. SEALED RADIOACTIVE SOURCE STORAGE
7. LIQUID FUME SILICA STORAGE AND TEST PIT
8. STIMULATION CHEMICAL WAREHOUSE
9. WATER TANK
10. WASTE WATER TANK
11. ACID TANKS
12. LIQUID ADDITIVE TANKS
13. EMPTY DRUM AND CHEMICAL STORAGE
14. BERMED CHEMICAL DRUM AND TOTE STORAGE
15. LIQUID SLURRY GEL STATION
16. TRUCK SCALES
17. STEAMER ROOM
18. OIL AND PAINT STORAGE
19. WASH BAY
20. TIRE STORAGE
21. LUBRICANT AND USED OIL STORAGE
22. TRUCK SHOP
23. EMPLOYEE PARKING
24. MAIN OFFICE BUILDING
25. EMERGENCY SPILL RESPONSE KIT
26. LABORATORY SAMPLE STORAGE BUILDING

Ford, Jack

From: Darwin Thompson [thompson@hobbs.oilfield.slb.com]
Sent: Friday, September 28, 2001 3:24 PM
To: jwford@state.nm.us
Subject: preliminary application renewal Dowell, Hobbs



GW discharge plan
renew. hobbs...



ATT30756.txt

Jack, here is the information requested this morning during our phone conversation relating to the public notice for the renewal of the Ground Water discharge permit GW073 for Dowell Schlumberger's Hobbs facility. The ground water quality figure is vague, but it is the best information I could get on short notice. I will have a more accurate number for the final application. If you need more information, please let me know.

My office is at the Artesia district, phone number 505 748 1392. My cell number is 505 910 2481. I'm also on e-mail all day. I may be calling with other questions as time goes on. Thanks.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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District IV
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State of New Mexico
Energy Minerals and Natural Resources

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1220 South St. Francis Dr.
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Revised January 24, 2001

Submit Original
Plus 1 Copy
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**DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS,
REFINERIES, COMPRESSOR, GEOTHERMAL FACILITIES
AND CRUDE OIL PUMP STATIONS**

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

New Renewal Modification

SEP 28 2001

Environmental Bureau
Oil Conservation Division

1. Type: Oilfield Pumping Service Company _____
2. Operator: Dowell Schlumberger
Address: PO Box 640, 1105 W. Bender, Hobbs, NM 88240
Contact Person: Darwin Thompson Phone: 505 748 1392
3. Location: NW /4 NE /4 Section 28 Township 18S Range 38E
Submit large scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
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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: Darwin Thompson Title: Facility Manager

Signature: _____/s/_____ Date: 9/28/01

Hydrogeologic Information

Dowell Schlumberger
Hobbs, New Mexico

Depth to Ground water 78ft.

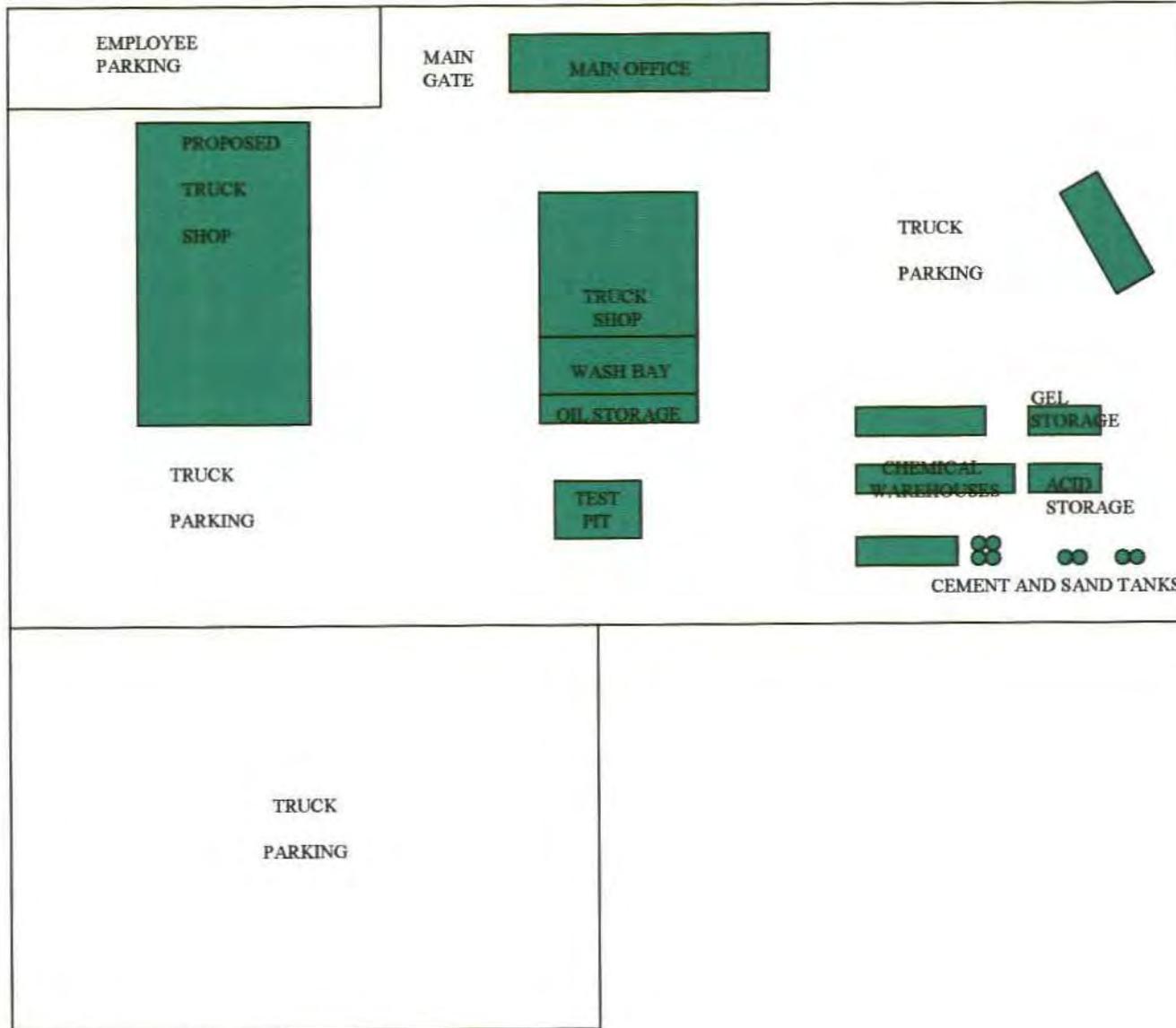
Quality of Ground water <1100ppm of TDS

RECEIVED

SFP 28 2001

Environmental Bureau
Oil Conservation Division

Hobbs, NM PLOT PLAN



Schlumberger

HAZARDOUS CHEMICALS INVENTORY

 DOWELL PRODUCTS NON-DOWELL CHEMICALS
CHEMICAL LOCATION: Hobbs, NM.* INVENTORY DATE: 10-9-01

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	A26	Xylene		Y
2	A166	Corrosion Inhibitor		
3	A179	Acid		
4	A186	Corrosion Inhibitor		
5	A201	Acid		
6	A205	Corban 333		
7	A255	Hydrogen Sul.		
8	A261	Corrosion Inhibitor		
9	A264	Inhibitor		
10	B28	Cement Additive		
11	B34	Scale control		
12	B53	Enchems-3000		
13	B58	LT Breaker		
14	B60	Mutual solvent		
15	B69	Biocide		
16	B80	Resin Activator		
17	B094	Inhibitor		
18	B124	Foaming Agent		
19	B142	Slurry Gel		

* This list must be updated at least annually.

** A check mark or date requested in this column requires corrective action.



HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: Atasia

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	B145	Friction Reducer		y
2	C129	150 Bridging Agent		
3	D13	Retarder		
4	D20	Bentonite Ex.		
5	D24	Gilsonite Ex.		
6	D29	Cellophane Flakes		
7	D31	Barite		
8	D44	SALT Granulated		
9	D42	Lost Circulation Addt.		
10	D46	All Purpose anti foam		
11	D47	Anti-foam Agent		
12	D49	TXI Lite weight		
13	D53	Cement Agent		
14	D59	For sale Cement Systems		
15	D60	Fluid loss Additive		
16	D65	T.I.C		
17	D66	Silica flour		
18	D75	Silicate Add.		
19	D79	Chemical wash		

* This list must be updated at least annually.
 ** A check mark or date requested in this column requires corrective action.



HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: Artasia

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	D080	Liquid Dispersant		y
2	D112	Fluid Loss Add.		
3	D122A	Chemical Wash Con.		
4	D124	Litefil		
5	D127	Fluid Loss Add.		
6	D128	Attapulgate		
7	D130	Polyester Flake		
8	D132	Cement		
9	D135	Stabilizer		
10	D139	Foamed Cement additive		
11	D140	Low Temperature activator		
12	D144	Anti-foam Agent		
13	D145A	Low Temp. liquid activator		
14	D147	XL Fresh Water		
15	D149	XL LAMINAR		
16	D151	Carbonate		
17	D153	Anti-settling Agent		
18	D154	Low Temperature		
19	D155	Liquid Low Temp		

* This list must be updated at least annually.
 ** A check mark or date requested in this column requires corrective action.



HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: Artesia

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	D155	Liquid Ion Trap		y
2	D156	Fluid Loss Filt.		
3	D163	Microtine		
4	D164	Stabilizer		
5	D167	Unitrac-S		
6	D173	Squeeze Crite Add.		
7	D174	Cement Addn		
8	D175	Anti foam Agent		
9	D500	Gasblok LI		
10	D600	Gasblok Add.		
11	D600 G	Gas Migration Con. Add.		
12	D604 AM	Salt bond		
13	D606	Gel Supp. Agent		
14	D800	Retarder		
15	D801	Retarder Mix		
16	D901	CLASS A		
17	D903	CLASS C		
18	D909	CLASS H		
19	F3	Isopropyl Alcohol		

* This list must be updated at least annually.

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HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: Artesia

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	F52	Foaming Agent		4
2	F52.1	Foaming Agent		
3	F75 N	SURFACTANT EzeFlo		
4	F78	SURFACTANT EzeFlo		
5	F99	Coupling Agent		
6	F103	SURFACTANT EzeFlo		
7	F104	Foaming Agent		
8	F105	Multi-fun Surfactant		
9	H36	Acid Hydrochloric 36%		
10	J66	Diverting Agent - Tixafrac		
11	J66S	Salt		
12	J84	Fluid loss Additive		
13	J120	Friction Reducing Agent		
14	J134	Breaker Enzyme		
15	J134L	Breaker Enzyme		
16	J164	Gelling Agent		
17	J170	Plugging Agent		
18	J218	Breaker		
19	J227	Diverting Agent		

* This list must be updated at least annually.

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HAZARDOUS CHEMICALS INVENTORY

 DOWELL PRODUCTS NON-DOWELL CHEMICALS
CHEMICAL LOCATION: Artesia

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	J237A	Dilverting Agent		Y
2	J257	Friction Reducer		
3	J285	Breaker		
4	J297	Breaker Low Temp.		
5	J318	Breaker Acid, Liquid		
6	J347	Gelling Agent, Water		
7	J352	Crosslinker		
8	J353	Stabilizer, HiTemp		
9	J423	Diverter		
10	J424	Gelling Agent Water		
11	J429	Gelling Agent, Acid		
12	J451	Fluid Loss Additive, Liquid		
13	J452	Gelling Agent, Oil		
14	J456	Gelling Agent, Slurriable HPG		
15	J457	Gelling Agent, Slurriable Guac		
16	J464	Buffering Agent		
17	J465	Activator, Slurriable Crosslink		
18	J466	Breaker Acid		
19	J471A	Iron Control Agent LCA		

* This list must be updated at least annually.

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HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	J472	LCA Fluid loss Activator		Y
2	J475	Breaker EB Clean		
3	J479	Breaker EB Clean		
4	J486	Gelling Agent CMHPG		
5	J491	Gelling Agent Water Conc.		
6	J492	Cross linker		
7	J501	PROPNET II		
8	J506	Cross linker		
9	J508 W	Chartrac-Winterized		
10	J529	Oilseeker		
11	J601	Cross linker		
12	J602 L	pH Control Agent		
13	J603	Breaker		
14	J877-PB	Slurry PB Polymer		
15	K46	Methanol		
16	K187	Catalyst		
17	K230B	Resin Solution		
18	K232	Thread locking Compound		
19	K235B	Curing Agent		

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HAZARDOUS CHEMICALS INVENTORY

 DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	L1	Iron Stabilizer Agent		4
2	L10	Crosslinker		
3	L22L	Acid Hydroxyacetic		
4	L47	Inhibitor Gypban		
5	L49	Inhibitor Gypban		
6	L55	CLAY Stabilizer		
7	L58	Iron Stabilizer		
8	L63	Reducing Agent		
9	L64	CLAY Stabilizer		
10	L065	Scale Inhibitor		
11	L401	Stabilizing Agent		
12	M3	Soda Ash		
13	M24	Protectozone		
14	M38B	Silicate Control Add.		
15	M45	Antifoam		
16	M117	Potassium Chloride		
17	M275	Microbiocide		
18	M290	Bactericide		
19	N2	Nitrogen		

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HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS

NON-DOWELL CHEMICALS

CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	P121	Solvent PARAN		Y
2	P124	Inhibitor Liquid Paraffin		
3	S1	Calcium Chloride		
4	S14	SAND 12-20 Mesh		
5	S18	SAND 16-30		
6	S20	SAND 20-40		
7	S20	SAND 20-40		
8	S36	SAND 8-16		
9	S53	Liquid Calcium Chloride		
10	S74	Proppant 16/30 Resin Curable		
11	S74	Proppant 20/40 Resin Curable		
12	S74L	Proppant, Curable-Low Resin 12/20		
13	S74L	Proppant, Curable-Low Resin 16/30		
14	S74L	Proppant, Curable-Low Resin 20/40		
15	S074L	Proppant, Super LC 1220 Mesh		
16	S074L	Proppant, Super LC 1630 Mesh		
17	S074L	Proppant, Super LC 2040 Mesh		
18	S074L.3	Proppant CR4000		
19	S074L3	Proppant CR4000 20/40 Mesh		

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HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS

NON-DOWELL CHEMICALS

CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	S093	Proppant, Precured Resin		Y
2	S093	Proppant, Precured Resin		
3	S093	Proppant, Black Plus 20/40 Mesh		
4	S093.1	Proppant, Black Plus 40/70 Mesh		
5	S095	Proppant, Med Density Isp 2 ¹ / ₄		
6	S095	Proppant, Med Density Isp 3 ⁰ / ₆ 8		
7	S100	SAND 100 Mesh		
8	S100	SAND 100 Mesh S100 sacked		
9	S105	Proppant, Low density Isp 2 ¹ / ₄		
10	S108	Proppant, High Strength Resin 1 ⁶ / ₃₀		
11	S108	Proppant, High Strength Resin 2 ⁰ / ₄₀		
12	S108.1	Proppant, Super DC 20/40 Mesh		
13	S123	Liquid Curing Agent		
14	S128	Proppant, Precured Low Resin 1 ⁶ / ₃₀		
15	S128	Proppant, Precured Low Resin 2 ⁰ / ₄₀		
16	S128.1	Proppant, PR6000 20/40 Mesh		
17	S128.2	Proppant, Tempered LC 1 ⁶ / ₃₀ Mesh		
18	S128.2	Proppant, Tempered LC 2 ⁰ / ₄₀ Mesh		
19	S138	Proppant, Ceramic 20/40		

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HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	S138	Proppant, Ceramic	20/40	Y
2	S140	Proppant, High Strength	20/40	
3	S142	Proppant, Precured Resin-Coat	16/30	
4	S145	Egno Flex		
5	S148.1	Proppant, SBE Excel	20/40 Mesh	
6	S152	Magna Prop		
7	S154	Ceremax E		
8	T130	Liquid Wax Dressing		
9	U028	Gelling Agent Activator		
10	U042	Chelating Agent		
11	U051	Diesel Oil		
12	U066	Freflo EB Miscible Solvent		
13	U074	Dispersing Agent		
14	U078	Emulsifier		
15	U080	Emulsifying Agent		
16	U082	Paraffin Dispersant		
17	U100	Solvent, Mutual		
18	U106	Chelating Agent		
19	W035	Emulsion/Sludge Preventer		

* This list must be updated at least annually.
 ** A check mark or date requested in this column requires corrective action.



HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	W035	Emulsion/sludge preventer		Y
2	W053	Non Emulsifying Agent		
3	W054	Non Emulsifying Agent		
4	W059	SURFACTANT		
5	X E804	Gelling Agent		
6	X E852	Acid Diverting Agent for High Water		
7	X E905	D.W. Gelling Agent		
8	X F941	Developmental		
9	Y001	Intensifier		
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				

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HAZARDOUS CHEMICALS INVENTORY

DOWELL PRODUCTS NON-DOWELL CHEMICALS

CHEMICAL LOCATION: HOBBS 2017

* INVENTORY DATE: 10-2-01

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	OIL	15-40 MOTOR OIL	FLAMMABLE	
2	OIL	ARIES 100	"	
3	OIL	Rando HD-46	"	
4		ANTI-FREEZE		
5	OIL	80-90W GEAR LUBE	"	
6	OIL	SAE30 MOTOR OIL	"	
7	PENETRATING LUBRICANT	ZEP-45	"	
8	PAINT	MIS PAINT	"	
9	SILICONE	SILICONE	"	
10	STARTING FLUID	STARTING FLUID	"	
11	GASOLINE	GASOLINE	FLAMMABLE	
12	USZ	DIESEL	FLAMMABLE	
13	RODENTICIDE	RAT BAIT	POISON	
14	CONTACT CLEANER	IO Red (ZEP)	flammable	
15				
16				
17				
18				
19				

* This list must be updated at least annually.

** A check mark or date requested in this column requires corrective action.

Attachment



PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
 PHONE (505) 393-2325 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 640
 HOBBS, NM 88241
 FAX TO: (505) 393-2132

Receiving Date: 10/25/00
 Reporting Date: 11/01/00
 Project Number: NOT GIVEN
 Project Name: HOBBS YARD
 Project Location: NOT GIVEN

Sampling Date: 10/25/00
 Sample Type: SEE BELOW
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH/GP

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		10/27/00	10/27/00	10/27/00	10/27/00	10/27/00	10/27/00	11/01/00	10/30/00
EPA LIMITS:		5	3	100	1	5	5	0.2	1
H5283-1*	SPL #1 USED OIL	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H5288-2**	SPL #2 W.B. SLUDGE	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H5203-4***	SPL #4 FILTER (OIL)	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H5283-5*	SPL #5 PARTS SOLV.	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.047	4.822	22.55	1.015	1.098	5.289	0.00998	0.0480
True Value QC		0.050	5.000	25.00	1.000	1.000	5.000	0.01000	0.0500
% Recovery		94.0	96.4	90.2	102	110	106	99.8	98.0
Relative Standard Deviation		4.6	0.2	2.0	0.2	0.7	0.5	0.2	3.7

METHODS: EPA 1311, 600/4-78-020 208.2 272.1 208.1 213.1 218.1 238.1 245.1 270.2
 *Liquid (oil) **Sludge ***Solid

Gayle A. Potter
 Gayle A. Potter / Chemist

11/01/2000
 Date

H5283M.XLS

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ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 840
 HOBBS, NM 88241
 FAX TO: (505) 393-2132

Receiving Date: 10/25/00
 Reporting Date: 10/30/00
 Project Number: NOT GIVEN
 Project Name: HOBBS YARD
 Project Location: NOT GIVEN
 Sample ID: SAMPLE #1 USED OIL
 Lab Number: H5283-1

Analysis Date: 10/26/00
 Sampling Date: 10/25/00
 Sample Type: LIQUID (OIL)
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H5283-1	Method Blank	True Value		
				QC	% Recov. QC	
Pyridine	5.00	<0.020	<0.005	0.008	16	0.050
1,4-Dichlorobenzene*	7.50	0.032	0.006	0.032	64	0.050
o-Cresol	200	<0.020	<0.005	0.028	58	0.050
m, p-Cresol	200	<0.020	<0.005	0.026	52	0.050
Hexachlorocyclohexane	3.00	<0.020	<0.005	0.019	38	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.600	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.041	82	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.041	82	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.045	90	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.040	80	0.050
Pentachlorophenol	100	<0.020	<0.005	0.043	86	0.050

% RECOVERY

Fluorophenol	50
Phenol-d5	33
Nitrobenzene-d5	80
2-Fluorobiphenyl	91
2,4,6-Tribromophenol	86
Terphenyl-d14	89

METHODS: EPA SW 846-8270, 1311, 3510
 *Analyte detected in sample and method blank.

Burgess J. A. Cooke
 Burgess J. A. Cooke, Ph. D.

10/30/00
 Date.

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**ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88241
FAX TO: (505) 393-2132**

Receiving Date: 10/25/00
Reporting Date: 10/30/00
Project Number: NOT GIVEN
Project Name: HOBBS YARD
Project Location: NOT GIVEN
Sample ID: SAMPLE #1 USED OIL
Lab Number: H5283-1

Analysis Date: 10/26/00
Sampling Date: 10/25/00
Sample Type: LIQUID (OIL)
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H5283-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.088	86	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.082	92	0.100
Chloroform	6.0	<0.005	<0.005	0.091	91	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	96	0.100
Benzene	0.5	0.010	<0.005	0.095	95	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.096	96	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.106	106	0.100
Chlorobenzene	100	<0.005	<0.005	0.106	106	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.101	101	0.100

% RECOVERY

Dibromofluoromethane	92
Toluene-d8	99
Bromofluorobenzene	100

METHODS: EPA SW 846-8280, 1311

Burgesa J.A. Cooke, P.H.D.
Burgesa J.A. Cooke, P.H.D.

10/30/00
Date

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ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88241
FAX TO:

Receiving Date: 06/27/01
Reporting Date: 07/10/01
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: HOBBS YARD

Sampling Date: 06/27/01
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/JA

LAB NUMBER	SAMPLE ID	COD (mg/L)	FOG (mg/L)	pH (s.u.)	TSS (mg/L)
ANALYSIS DATE		07/03/01	07/06/01	06/29/01	07/05/01
H5946-1	WASTEWATER	1308	380	6.72	343
Quality Control		966	1875	7.00	NR
True Value QC		900	1845	7.00	NR
% Accuracy		107	102	100	NR
Relative Percent Difference		1.4	2.6	0.1	8.1
METHODS: EPA 600/4-79-020		410.4	413.1	150.1	160.2


Chemist

07/10/2001
Date

H5946.XLS

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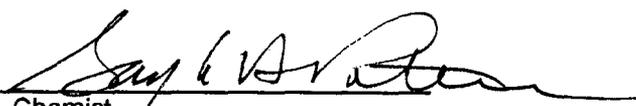
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ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88241

Receiving Date: 06/27/01
Reporting Date: 07/12/01
Project Number: NOT GIVEN
Project Name: WASTE ANALYSIS
Project Location: HOBBS YARD

Sampling Date: 06/27/01
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: GP

LAB NUMBER	SAMPLE ID	Date In	BOD5 (mg/L)	Date Out
ANALYSIS DATE:		6/30/01		7/5/01
H5946-1	WASTEWATER		460	
Quality Control				
True Value QC				
% Accuracy				
Relative Percent Difference				
METHODS: Standard Methods			5210B	


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07/12/2001
Date

H5946B.XLS

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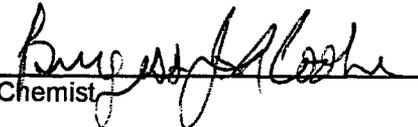
ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88241
FAX TO:

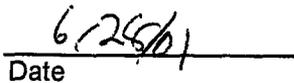
Receiving Date: 06/27/01
Reporting Date: 06/28/01
Project Number: NOT GIVEN
Project Name: WASTE ANALYSIS
Project Location: HOBBS YARD

Sampling Date: 06/27/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NO.	SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		06/27/01	06/27/01	06/27/01	06/27/01	06/27/01
H5946-2	MUD TANK	113000	<0.005	0.068	0.030	0.233
Quality Control		240	0.109	0.098	0.099	0.284
True Value QC		240	0.100	0.100	0.100	0.300
% Recovery		100	109	98.1	99.2	94.8
Relative Percent Difference		3.8	0.6	0.4	3.7	2.9

METHODS: TRPHC - EPA 600/4-79-020, 418.1; BTEX - EPA SW-846 8260


Chemist


Date

H5946BT.XLS

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ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88241
FAX TO:

Receiving Date: 06/27/01
Reporting Date: 07/03/01
Project Number: NOT GIVEN
Project Name: WASTE ANALYSIS
Project Location: HOBBS YARD

Sampling Date: 06/27/01
Sample Type: SOLID
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		07/02/01	07/02/01	07/02/01	07/02/01	07/02/01	07/02/01	06/29/01	07/02/01
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H5946-2	MUD TANK	<1	<1	<5	<0.2	<1	<2	<0.02	<0.1
Quality Control		0.199	4.476	21.74	1.065	3.965	3.978	0.00999	0.193
True Value QC		0.200	5.000	25.00	1.000	4.000	4.000	0.01000	0.200
% Recovery		99.5	89.5	87.0	107	99.1	99.5	99.9	96.5
Relative Standard Deviation		6.7	0.3	1.0	1.1	0.5	1.9	0.1	9.3
METHODS: EPA 1311, 600/4-91/		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2


Chemist

07/10/2001
Date

H5946M.XLS

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ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 640
 HOBBS, NM 88241
 FAX TO:

Receiving Date: 06/27/01
 Reporting Date: 07/02/01
 Project Number: NOT GIVEN
 Project Name: WASTE ANALYSIS
 Project Location: HOBBS YARD
 Lab Number: H5946-2
 Sample ID: MUD TANK

Analysis Date: 06/29/01
 Sampling Date: 06/27/01
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H5946-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.019	38	0.050
1,4-Dichlorobenzene	7.50	0.023	<0.005	0.032	64	0.050
o-Cresol	200	<0.020	<0.005	0.035	70	0.050
m, p-Cresol	200	<0.020	<0.005	0.036	72	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.026	52	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.043	86	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.030	60	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.045	90	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.045	90	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.047	94	0.050
Pentachlorophenol	100	<0.020	<0.005	0.045	90	0.050

% RECOVERY

Fluorophenol	26
Phenol-d5	24
Nitrobenzene-d5	80
2-Fluorobiphenyl	63
2,4,6-Tribromophenol	56
Terphenyl-d14	96

METHODS: EPA SW 846-8270, 1311, 3510


 Burgess J. A. Cooke, Ph. D.


 Date

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ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88241
FAX TO:

Receiving Date: 06/27/01
Reporting Date: 07/02/01
Project Number: NOT GIVEN
Project Name: WASTE ANALYSIS
Project Location: HOBBS YARD
Lab Number: H5946-2
Sample ID: MUD TANK

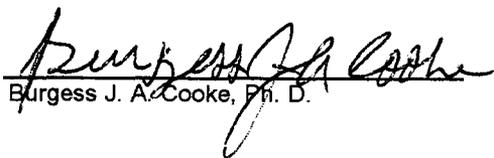
Analysis Date: 06/28/01
Sampling Date: 06/27/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H5940-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.114	114	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.110	110	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.111	111	0.100
Chloroform	6.0	0.006	<0.005	0.111	111	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.109	109	0.100
Benzene	0.5	<0.005	<0.005	0.111	111	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.112	112	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.108	108	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.109	109	0.100
Chlorobenzene	100	<0.005	<0.005	0.108	108	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.108	108	0.100

% RECOVERY

Dibromofluoromethane	104
Toluene-d8	106
Bromofluorobenzene	107

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph. D.

7/2/01
Date

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ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88241
FAX TO:

Receiving Date: 06/27/01
Reporting Date: 07/03/01
Project Number: NOT GIVEN
Project Name: WASTE ANALYSIS
Project Location: HOBBS YARD

Sampling Date: 06/27/01
Sample Type: SOLID
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

REACTIVITY

LAB NUMBER SAMPLE ID Sulfide Cyanide CORROSIVITY IGNITABILITY
(ppm) (ppm) (pH) (°F)

ANALYSIS DATE:	07/03/01	07/03/01	06/28/01	06/28/01
H5946-2 MUD TANK	Not reactive	Not reactive	7.27	Nonflammable
Quality Control	NR	NR	7.00	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	100	NR
Relative Percent Difference	NR	NR	0.6	NR

METHOD: EPA SW 846-7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

Burgess A. Roche
Chemist

7/3/01
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 640
 HOBBS, NM 88241
 FAX TO:

Receiving Date: 03/01/01
 Reporting Date: 03/02/01
 Project Number: NOT GIVEN
 Project Name: FLOOR SWEEP
 Project Location: HOBBS YARD
 Lab Number: H5662-1
 Sample ID: 20122

Analysis Date: 03/02/01
 Sampling Date: NOT GIVEN
 Sample Type: SOLID
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H5662-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.101	101	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.086	86	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.092	92	0.100
Chloroform	6.0	0.007	<0.005	0.089	89	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.092	92	0.100
Benzene	0.5	<0.005	<0.005	0.090	90	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.093	93	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.090	90	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.095	95	0.100
Chlorobenzene	100	<0.005	<0.005	0.092	92	0.100
1,4-Dichlorobenzene	7.5	<0.005	0.007	0.090	90	0.100

% RECOVERY

Dibromofluoromethane	92
Toluene-d8	95
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311

Burgess J.A. Cobke
 Burgess J.A. Cobke, Ph. D.

3/2/01
 Date

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ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 640
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 03/01/01
 Reporting Date: 03/06/01
 Project Number: NOT GIVEN
 Project Name: FLOOR SWEEP
 Project Location: HOBBS YARD
 Lab Number: H5662-1
 Sample ID: 20122

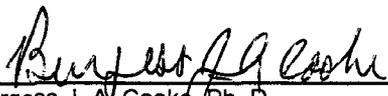
Analysis Date: 03/05/01
 Sampling Date: NOT GIVEN
 Sample Type: SOLID
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H5662-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.016	32	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.038	76	0.050
o-Cresol	200	<0.020	<0.005	0.036	72	0.050
m, p-Cresol	200	<0.020	<0.005	0.037	74	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.038	76	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.035	70	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.041	82	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.041	82	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.043	86	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.037	74	0.050
Pentachlorophenol	100	<0.020	<0.005	0.041	82	0.050

% RECOVERY

Fluorophenol	30
Phenol-d5	25
Nitrobenzene-d5	82
2-Fluorobiphenyl	69
2,4,6-Tribromophenol	111
Terphenyl-d14	110

METHODS: EPA SW 846-8270, 1311, 3510


 Burgess J. A. Cooke, Ph. D.

3/6/01
 Date

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ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 640
 HOBBS, NM 88241
 FAX TO:

Receiving Date: 03/01/01
 Reporting Date: 03/07/01
 Project Number: NOT GIVEN
 Project Name: FLOOR SWEEP
 Project Location: HOBBS YARD

Sampling Date: NOT GIVEN
 Sample Type: SOLID
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/06/01	03/06/01	03/06/01	03/06/01
H5662-1	20122	Not reactive	Not reactive	6.59	Nonflammable
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	<0.1	NR

METHOD: EPA SW 846-7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

Burton J. Cochrane
 Chemist

3/17/01
 Date

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H5662R-ALC



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ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 640
 HOBBS, NM 88241
 FAX TO:

Receiving Date: 03/01/01
 Reporting Date: 03/05/01
 Project Number: NOT GIVEN
 Project Name: FLOOR SWEEP
 Project Location: HOBBS YARD

Sampling Date: NOT GIVEN
 Sample Type: SOLID
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:		03/02/01	03/02/01	03/02/01	03/02/01	03/02/01	03/02/01	03/02/01	03/02/01
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H5662-1	20122	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.189	4.823	70.40	0.916	4.955	4.986	0.00700	0.197
True Value QC		0.200	5.000	75.00	1.000	5.000	5.000	0.00600	0.2000
% Recovery		94.5	91.5	93.9	91.6	99.1	99.7	85.7	98.5
Relative Standard Deviation		1.6	0.2	1.1	1.2	1.4	3.0	1.4	6.8

METHODS: EPA 1311, 600/4-91/	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
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Gayle A. Potter
 Gayle A. Potter, Chemist

03/06/2001
 Date

H5662M.XLS
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Attachment 4

LABORATORY ANALYTICAL REPORT

Client: Western Water Consultants
 Project: Not Indicated
 Lab ID: C01100530-004
 Client Sample ID: 93007-15.10/01

Report Date: 10/25/01
 Collection Date: 10/16/01 10:00
 Date Received: 10/17/01
 Matrix: AQUEOUS

Hobbs Groundwater

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
NON-METALS							
Alkalinity, Total as CaCO3	233	mg/L		1.00		A2320 B	10/19/01 13:45 / nlm
Bicarbonate as HCO3	284	mg/L		1.00		A2320 B	10/19/01 13:45 / nlm
Carbonate as CO3	ND	mg/L		1.00		A2320 B	10/19/01 13:45 / nlm
Nitrogen, Nitrate+Nitrite as N	11.6	mg/L		1.0		E353.2	10/24/01 12:28 / rwk
pH	7.50	mg/L		0.01		A2320 B	10/19/01 13:45 / nlm
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @180 C	1390	mg/L			10	A2540 C	10/18/01 14:36 / tr
METALS, TOTAL							
Calcium	249	mg/L			1.0	E200.7	10/19/01 13:29 / cp
Chloride	147	mg/L			1.0	E200.7	10/19/01 13:29 / cp
Magnesium	38.3	mg/L			1.0	E200.7	10/19/01 13:29 / cp
Potassium	2.0	mg/L			1.0	E200.7	10/19/01 13:29 / cp
Sodium	138	mg/L			1.0	E200.7	10/19/01 13:29 / cp
Sulfate	427	mg/L			1.0	E200.7	10/19/01 13:29 / cp

Report Definitions: ND - Not detected at the reporting limit
 MCL - Maximum Contaminant Level
 QCL - Quality control limit
 RL - Reporting level

WESTERN WATER ANALYTICAL

Environmental Exit Survey Checklist

Environmental exit surveys will be conducted by Schlumberger personnel prior to the release of any Schlumberger property (whether leased, owned, or otherwise occupied.) Site Management and/or QHSE personnel or the designate will complete the exit survey checklist and submit it to Regional/Geomarket QHSE and/or SL Environmental personnel for review.

Regional/Geomarket QHSE or SL Environmental personnel will use the checklist information to screen the site in order to determine whether further environmental assessment or remediation must be conducted prior to release of the property. If required, Regional/Geomarket QHSE or SL Environmental personnel will oversee further assessment or remediation. Sites will not conduct contamination assessment or remediation without oversight by SL Environmental.

Regional/Geomarket QHSE, and/or Legal Counsel, and/or SL Environmental will review final closure reports to determine whether the property may be released.

Final closure documents (exit survey checklist, sign-off memo of closure, any environmental assessment information or clean-up/remediation information) will be included in Section 9 – Closure - of the Site Environmental History File.

Property Closure Information

Will the property be sold, returned to owner, leased to a third-party, or other?

If the property is to be sold, has a buyer been identified? _____

Proposed date of sale/release of property _____

Estimated cost of property or monthly lease payments _____

Has all Schlumberger property (equipment, signs, chemicals, wastes, vehicles, etc.) that is not being sold with the property been removed from the site? _____

Describe any specific time frames or special needs with regard to the environmental exit survey:

Facility Information

Date of Exit Survey: _____

A. Owner of facility/property

Name _____

Address _____

Current Occupant (if different from Owner):

Name _____

Address _____

Date Current Occupant Took Possession _____

B. Current use of Facility/Property (describe)

Zoning _____

Vacant/Open _____

Other _____

C. Total Acreage of Property _____

No. of Buildings on Property _____

No. of Employees _____

D. Past Use of Facility/Property Prior to current Occupant (describe). Go as far back as possible; add additional pages as necessary.

Commercial _____

Industrial _____

Residential _____

Vacant/Open _____

Other _____

PART I - SITE INSPECTION

1. Grounds Inspection -

Are there any visible signs of:

- a) Stressed Vegetation _____ Yes _____ No
Describe:

- b) Soil Staining _____ Yes _____ No
Describe:

- c) Excavation or Filling _____ Yes _____ No
Describe:

2. Raw Materials Used or Stored on Site

Are there presently used, or is there knowledge of past use of any of the following:

- a) Solvents (describe types) _____ Yes _____ No
- b) Plating Chemicals _____ Yes _____ No
- c) Paints _____ Yes _____ No
- d) Coolants, Lubricants _____ Yes _____ No
- e) Polychlorinated biphenyls (PCBs) _____ Yes _____ No
- f) Fuels and Hydrocarbon Products _____ Yes _____ No
- g) Other (specify) _____ Yes _____ No
- h) Are there any concerns regarding improper use or storage? _____ Yes _____ No
Describe:

- i) Are floor drains present in storage or use area? _____ Yes _____ No

PART I - (Continued)

3. Drum/Chemical Storage

_____ Yes _____ No

Describe the Storage area (size, location on site, containment structures, capacity, etc.).

- a) Is there a concrete storage pad for chemical containers? _____ Yes _____ No
- b) Does the pad have a concrete containment wall or berm? _____ Yes _____ No
- c) Does the pad have a sump? _____ Yes _____ No
- d) Are there floor drains in the storage area?
If yes, where do they drain? _____ Yes _____ No
- e) Is storage area covered with roof? _____ Yes _____ No
- f) Is there any indication of past releases/spills from the storage area? _____ Yes _____ No
- g) Have all chemicals been removed? _____ Yes _____ No

4. Waste Disposal

- a) Is there any evidence/knowledge of on-site waste disposal? _____ Yes _____ No

If yes, describe:

1. Landfill? _____ Yes _____ No

2. Evidence of Filling? _____ Yes _____ No

3. Lagoon/Surface impoundment? _____ Yes _____ No

4. Ponds/Drainage ditches?

_____ Yes _____ No

PART I - (Continued)

5. Waste piles? _____ Yes _____ No

6. Disposal wells? _____ Yes _____ No

7. Incineration? _____ Yes _____ No

8. Construction debris? _____ Yes _____ No

9. Road Oiling? _____ Yes _____ No

10. Other (describe):

5. Hazardous Waste Generation

Have hazardous wastes been generated on site? _____ Yes _____ No

If Yes, have all wastes been removed from site and properly disposed? _____ Yes _____ No

6. Air Emissions

Have sources of air emissions (paint booths, smoke stacks, vents, sandblasting, cement blending, etc.) been present on site? _____ Yes _____ No

Describe:

If Yes, have all air emissions sources been removed from the site or decommissioned? _____ Yes _____ No

a) Are air emissions permits in place? _____ Yes _____ No

b) If yes, have there been any permit violations? _____ Yes _____ No
If Yes describe:

PART I - (Continued)

7. Wastewater Discharge

- a) On-site Treatment Facility? _____ Yes _____ No
(i.e., zero-discharge system, treatment plant)
- b) On-site Pretreatment Facility? _____ Yes _____ No
(i.e., sump, oil/water separator)
- c) On-site Treatment or Pretreatment Facility?
If yes, describe type of system, configuration of separator, etc.
(i.e., capacity, number of compartments, where fluids enter and exit, etc.).
- d) Wastewater discharge (if yes, describe)?
1. To sewer? _____ Yes _____ No
2. To storm sewer? _____ Yes _____ No
3. To stream, lake, etc.? _____ Yes _____ No
4. To on-site disposal well(s)? _____ Yes _____ No
5. To septic system or leach field? _____ Yes _____ No
6. To percolation pond? _____ Yes _____ No
7. Other? (describe) _____ Yes _____ No
- e) Septic Tank ? _____ Yes _____ No
If yes, describe (age of tank, volume, secretion, etc.):
- f) Stormwater Discharge (specify)
1. To stream, lake, etc.? _____ Yes _____ No
2. To stormwater sewer? _____ Yes _____ No
3. To retention/treatment pond? _____ Yes _____ No
4. Other? _____ Yes _____ No
- g) Have all wastewater facilities (zero discharge, recycle units, sumps, trenches, oil/water separators, septic

tanks, etc.), been cleaned and all wastes removed? _____ Yes _____ No

PART I - (Continued)

8. Underground Tanks (past and present) _____ Yes _____ No

Describe:

- a) Number ____; age ____; volume _____
- b) In Service? _____ Yes _____ No
- c) Material of construction _____
- d) Manufacturer (if known) _____
- e) Leak detection devices (monitoring?) _____
- f) Contents _____
- g) Leak tested? _____; Test results? _____
- h) Registered with Regulatory Agency? _____ Yes _____ No
- i) Any spills? _____ Yes _____ No
- j) Removed? _____ Yes _____ No
If yes, is there a tank removal report available? _____ Yes _____ No

If no, have all tanks been cleaned and tank contents either destined for use or properly disposed? _____ Yes _____ No

9. Above Ground Storage Tanks _____ Yes _____ No

Describe:

- a) If yes, number ____ age ____; volume _____
- b) Material of construction _____
Manufacturer (if known) _____
In service? _____ Yes _____ No
- c) Contents _____
- d) Are/were the tanks properly contained? _____ Yes _____ No
Describe containment:
- e) Are there drains in the containment structure? _____ Yes _____ No
If yes, describe their destinations:
- f) Describe condition of tanks:
- g) Any spills? _____ Yes _____ No
If yes, describe:
- h) Have all tanks been cleaned and tank contents either

destined for use or properly disposed ?
i) Have above ground tanks been removed from site?

_____ Yes _____ No
_____ Yes _____ No

PART I - (Continued)

10. Parts Cleaning/Degreasing Operation

- a) Type _____
- b) Location _____
- c) Volume _____
- d) Previous type _____
- e) Have all part washer/degreasing operations been decommissioned and wastes properly disposed? _____ Yes _____ No
- f) Have all tanks been cleaned and tank contents either destined for use or properly disposed? _____ Yes _____ No

11. Wells observed on site

- Does the facility obtain water from an on-site well? _____ Yes _____ No
- If yes, is it:
 - a) Private? _____ Yes _____ No
 - b) Municipal? _____ Yes _____ No
 - c) Other? Describe: _____ Yes _____ No
- Are there any groundwater monitoring wells on-site? _____ Yes _____ No
- If yes, describe: _____
- Has well closure been considered? _____ Yes _____ No

12. Site drainage

- a) General direction of drainage:
- b) Proximity of drainage to:
 - Creeks:
 - Lakes/Ponds:
- Are there any concerns that site drainage has contributed to pollution of the site or any surrounding area? _____ Yes _____ No
- If yes, describe: _____

13. Paved Areas

- a) Pavement type: _____
- b) Approximate % of site covered: _____

14. Soil/Geologic Conditions

- a) Describe surface soils
- b) Describe shallow subsurface conditions (i.e., clay layers, water level, etc.)

PART I - (Continued)

15. Asbestos

- a) Were the facilities on the property constructed prior to 1979?
 Yes No Unknown N/A
- b) Has a formal, documented asbestos survey of the facilities been conducted?
 Yes No Unknown N/A
- If yes, did the survey report conclude that the buildings are free of asbestos-containing materials?
 Yes No Unknown N/A

- c) Does a walk-through of the property reveal any obvious evidence of insulation, fire proofing, or building materials that may contain asbestos that appear to be friable, flaking, damaged or broken?

See referenced report for the following information:

	Yes	No	Unknown	N/A
Pipe insulation	_____	_____	_____	_____
Duct insulation	_____	_____	_____	_____
Boiler insulation	_____	_____	_____	_____
Floor/Ceiling tiles	_____	_____	_____	_____
Sprayed-on ceiling	_____	_____	_____	_____
Stucco, plaster, fiberboard/ wall finishes	_____	_____	_____	_____
Roofing materials	_____	_____	_____	_____
Comments _____				

16. Radon

- a) Have any radon tests been performed at the property?
 Yes No Unknown N/A
- If yes, describe results:

- b) If elevated radon levels have been discovered at the property, have ventilation systems or similar remedial measures been implemented?
 Yes No Unknown N/A
- Describe:

PART I - (Continued)

17. Indoor Pollution

- a) Does the facility appear to be free of any obvious sources of air emissions that have chemical odors, fumes, or mists?

Yes No Unknown N/A

18. Polychlorinated Biphenyls (PCBs)

- a) Does the facility contain any equipment such as transformers or capacitors?

Yes No Unknown N/A

- b) Has the equipment been checked for PCB content?

Yes No Unknown N/A

If yes, by whom, when? Are there documented results?

- c) If PCB-containing electrical equipment is present at the property, is it marked with PCB identification labels?

Yes No Unknown N/A

- d) If PCB-containing electrical equipment is present at the property, is there evidence of leaks or spills on the ground adjacent to the equipment?

Yes No Unknown N/A

Comments _____

PART II – SURROUNDING AREA

1. Surrounding Land Uses

- a) (North)
- b) (South)
- c) (East)
- d) (West)

2. Potential sources of concern (air emissions, site drainage, groundwater contamination, etc.)

- a) (North)
- b) (South)
- c) (East)
- d) (West)

3. Walk property boundaries looking for signs of possible source of contamination from surrounding property.

- a) Past or present excavations.
- b) Equipment cleaning stations:
- c) Rubble piles:
- d) Inhibited plant growth:
- e) Waste or chemical storage areas:
- f) Underground or above ground storage tanks:

PART II - (Continued)

4. Describe general direction of surface drainage for area. (Sketch)

PART III - REGULATORY REVIEW

1. Are there any notices of violations or similar claims from any regulatory agencies?
2. Are there any pending legal actions related to environmental matters?
3. Are there any outstanding complaints (from citizens groups, residences, etc.)?

PART IV - ADDITIONAL DOCUMENTATION

1. Attach site diagram. Include buildings, chemical storage, waste storage, process and disposal areas, outfalls, signs of contamination, etc.
2. Attach current and past aerial photographs (where available) documenting past uses.
3. Include photographs or video documenting present conditions of facility.

PART V - CONCLUDING REMARKS

(Please include any concluding remarks or additional information here)

**Dowell, a division of Schlumberger Technology Corporation
(Dowell)**

Hobbs, New Mexico

**SPILL PREVENTION, CONTROL AND COUNTERMEASURE
PLAN AND
RCRA CONTINGENCY PLAN**

October 9, 2001

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ATTACHMENTS

Attachment 1	Location Map
Attachment 2	Facility Plot Plan
Attachment 3	Product and Waste Storage and Spill Containment Facilities
Attachment 4	Annual Tank Inspection Report
Attachment 5	Emergency Call List
Attachment 6	Spill Cleanup Contractors
Attachment 7	Schlumberger/NAM HSE Emergency Response System
Attachment 8	Oil Spill/Emergency Response Equipment
Attachment 9	Weekly Environmental Inspection Report
Attachment 10	Regulatory Cross-Reference Matrices

**Dowell, a division of Schlumberger Technology Corporation (Dowell)
Hobbs, New Mexico**

**SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN AND RCRA
CONTINGENCY PLAN**

1.0 INTRODUCTION

The management and personnel of Dowell, a division of Schlumberger Technology Corporation (Dowell), at the Hobbs, New Mexico location realize and acknowledge the importance of preventing hydrocarbons from being spilled into the navigable waters of the United States and preventing harmful releases of hazardous waste into the environment. The following Spill Prevention, Control and Countermeasure (SPCC) / Resource Conservation and Recovery Act (RCRA) Contingency Plan is designed to help protect the environment in two ways.

- First, it provides the procedures which will be used to prevent oil & chemical spills and waste releases.
- Second, should a spill or release occur, it describes the protocols for immediate coordination of necessary activities to minimize any harmful effects, including notification of appropriate government agencies as required under federal regulations.

To handle a spill response effectively, this SPCC/RCRA plan provides descriptions of the duties to be performed by facility personnel; procedures to be followed; available equipment; and available outside resources.

This SPCC/RCRA plan was developed in accordance with the requirements of Title 40 CFR Part 112 and requirements under Title 40 CFR Section 262.34 (a) for generators storing hazardous waste for less than 90 days. This plan conforms to the

recommendations of API Bulletin D16, entitled "Suggested Procedures for Development of Spill Prevention, Control and Countermeasure Plans", revised April 1990.

1.1 **Management Approval**

This SPCC / RCRA Contingency plan will be implemented as described herein,
and is approved by:

Jim Govenlock
Location Manager

Date

Judith A. Carley
NAM Environmental Manager

Date

1.2 Engineering Certification

1. An SPCC plan is required under U.S. Clean Water Act (CWA, 33 U.S.C.A. section 1321(j) (c)), and 40 C.F.R. Part 112, for onshore and offshore facilities that have more than 42,000 gallons of underground oil storage capacity, more than 1,320 gallons of total surface storage capacity, or a single surface container with an oil storage capacity in excess of 660 gallons which, due to their location, could reasonably have expected to have a spill of oil into the waters of the United States or adjoining shorelines. 40 C.F.R. section 112.1 (d).
2. The determination as to need for an SPCC plan cannot include consideration of man-made features such as dikes and sumps. 40 C.F.R. section 112.1 (d) (1) (I).
3. Whenever SPCC plans are required due to the quantities referred to above, the plans and all amendments to the plans must be reviewed and certified by a registered professional engineer. 40 C.F.R. section 112.3(d) and 112.5(c).
4. An SPCC plan must be amended whenever there is a change at the facility which materially changes the potential for an oil spill and a plan must be reviewed and evaluated at least once every three years. 40 C.F.R. section 112.5.

I certify that I have examined the facility, and being familiar with the provisions of 40 C.F.R. Part 112 and 40 C.F.R. Part 265, Subpart D, attest that this SPCC/RCRA Contingency Plan has been prepared in accordance with good engineering practices.

Name
Title
Registered Professional Engineer, State of _____
Registration No. _____

Date

2.0 GENERAL FACILITY INFORMATION

2.1 Brief Facility Description

Dowell in Hobbs, New Mexico is an oilfield cementing, acidizing, fracturing and coil tubing service company for the oil and gas industry. It is an onshore non-transportation related facility, storing bulk cement, and bulk liquids in tanks. Bulk liquids are stored in the following tankage: one (3) 15,000 gallon rubber lined steel tanks for storage of a 36% Hydrochloric Acid solution, two (2) 500 gal. and three (3) 275 gallon steel oil storage tanks, one (1) 300 gallon steel antifreeze storage tank, one (3) 330 gallon steel used oil storage tanks, one (1) 800 gallon steel oil skimmer tank, one (1) 6,500 gallon steel slurry gel storage tank, one (1) 15,000 gallon steel fresh water tank, twelve (12) 330 gallon HPDE tote tanks with chemicals at the acid loading facility, and one (1) 300 gallon HDPE soap tank at the wash bay facility. Solid chemicals are stored in sacks at the facility. This facility is an occasional generator of hazardous waste; however waste is not allowed to accumulate on-site for more than 180 days and is disposed of off-site. The hazardous waste materials are stored in drums and containers meeting applicable Department of Transportation (DOT) specifications, and are labeled in accordance with the requirements of 40 CFR 262.34. Hydrocarbons and chemicals are stored in large tanks constructed either of all steel material with welded seams or high density polyethylene (HDPE). Miscellaneous chemicals are normally stored in warehouses, or in a fenced area. Appropriate warning signs are posted at the entrances to each of the chemical storage areas. There is no discharge of processed effluent from

this facility. Any potential spills or discharges from the facility would flow South. The Hobbs facility is located at 1105 West Bender. A location map (Attachment 1) and a facility plot plan (Attachment 2) are included for reference.

2.2 Designated Contact

Jim Govenlock, Location Manager is the Emergency Coordinator for spill and hazardous release at the Artesia facility. Correspondence should be addressed to:

Dowell Schlumberger
PO Box 640
Hobbs, New Mexico 88240

Dowell will utilize trained personnel from this facility and contractors as well as local police and fire departments to respond to emergency situations. If cleanup is required, then Dowell will rely on RCRA and Occupational Safety and Health Administration (OSHA) trained personnel, either within the Company or contractors or both, to handle this.

2.3 Storage Tanks

A description of product and waste storage tanks, their volume and containment provisions are included in Attachment 3.

2.4 Loading and Unloading Facilities

There are Five (5) loading and unloading areas at this facility.

1. Diesel and gasoline fuel storage area
2. Hydrochloric Acid storage area
3. Slurry Gel Storage Area

4. Oil Storage Area
5. Wash Bay soap area

2.4.1 Loading and Unloading Operations

The typical operation at each of the areas is described below.

1. The fuel storage tanks receives diesel and gasoline delivered by commercial suppliers, which is loaded into the 80 gallon storage tanks. This tank is enclosed by a cement revetment and leaks would be contained within the revetment. The loading and unloading activities are supervised by a Dowell employee.
2. Acid is delivered by transport trucks and off-loaded into the (3) 15,000 gallon rubber lined steel storage tanks. The acid storage tanks are enclosed in a dike and spillage would be contained. The transports are also parked in a sloped truck well with a blind sump, which would contain any spillage occurring during loading and unloading. Loading and unloading activities are supervised by a Dowell employee.
3. Slurry gel is delivered by transports and off-loaded into the 6,500 gallon. Steel tank. The tank is enclosed by a steel revetment and leaks would be contained within the revetment. Loading and unloading activities are supervised by a Dowell employee.
4. Oil and antifreeze is delivered by commercial supplier and unloaded into the 500, 300 and 275 gallon steel tanks. These tanks are enclosed by a steel revetment and leaks would be contained within the revetment. Loading and unloading activities are supervised by a Dowell employee.

5. Soap for the wash bay facility is unloaded by commercial trucker. The 300 gallon HDPE tank is enclosed by a concrete revetment and leaks would be contained within the revetment. Loading and unloading activities are supervised by a Dowell employee.

3.0 OIL SPILL & HAZARDOUS WASTE EMERGENCY PREVENTION MEASURES

The following preventive measures have been implemented at this facility to reduce the possibility of releases of oil, hazardous material or waste and to minimize their impact should a release occur.

3.1 Security

The entire facility is enclosed by a six foot high chain link fence. The gates are open at all times as the business activity requires 24-hour activity on the premises. The main vehicle entrance has a gate. The walk through gate can be locked at any time. Both gates are manned by dispatchers on a 24-hour basis.

3.2 Lighting

The operational areas, including facilities with oil, chemical, and waste storage, of this facility are adequately lit at night to allow detection of any spills or leakage.

3.3 Spill Containment Devices.

This facility has installed revetments, dikes or booms to control and contain accidental oil, chemical, and waste releases should they occur. The containment volume is 133 percent of the volume of the largest storage vessel within the diked area. (See Attachment 3 for details.)

All the revetments which are used to store fuel or other material or wastes have no outlet piping or valves for drainage. Removal of accumulated liquids inside the revetments can be accomplished by using a portable pump or vacuum truck and requires the approval of the facility supervisor. Before approving removal of the water, the supervisor will visually inspect the quality of the liquid to be drained. Only uncontaminated rainwater can be discharged without treatment. Accumulated liquids that are contaminated are transferred to one of the wastewater tanks for subsequent treatment or disposal.

3.4 Special Precautions

No flammable hazardous waste materials will be stored within 50 feet of the property line in accordance with National Fire Protection Association (NFPA) and RCRA standards. Incompatible waste will be stored in segregated areas or within designated sections of the hazardous waste storage area. Adequate aisle space will be provided in and around the area to allow unobstructed movement of personnel and equipment for spill control, emergency response, and fire fighting needs.

Hazardous waste handling operations will be conducted by personnel who have completed OSHA/RCRA training. Drums containing hazardous waste are marked and labeled in accordance with 40 CFR 262.31 and 49 CFR 172; and as necessary, tanks that contain hazardous waste liquids will be marked in accordance with 40 CFR 262.31 and 49 CFR 172.

3.5 Inspections

Each of the facility's storage tanks will be visually inspected annually. This inspection will include the following at a minimum:

- Integrity of joints
- Rusted areas and associated leaks
- Structural abnormalities
- Breathing vent condition
- Hoses and associated connections
- Valving
- Condition of paint
- Overall tank integrity

These inspections will be recorded in the "Annual Tank Inspection Form" provided in Attachment 4. Corrective action for defects will be taken as necessary and will be recorded on inspection forms. These forms will be signed by the inspector and maintained as a part of the SPCC Plan for three years.

The supervisor responsible for spill prevention and waste handling at this facility or his trained designated representative will conduct weekly facility tours to observe any abnormalities or potential problems. Any problems and subsequent corrective actions will be logged on the inspection form provided in Attachment

9. This inspection includes the following:

- Condition of facility drainage
- Condition of oil spill retention system
- External appearance of tanks and piping
- Condition of waste drums in storage area.

- Condition of product drums and totes in storage area.
- Integrity of containment dikes
- Condition of diked areas
- Adequate aisle and work space in storage area

3.6 Personnel Training

All personnel, except office personnel, at the facility will receive training in oil spill prevention, safe handling procedures of products and wastes, waste minimization, and methods for recognizing oil spills and waste release. This training will cover site-specific information, including implementation of this plan. The training will be conducted annually by trained personnel who are familiar with this facility. This training will include:

- A. Applicable Laws and Regulations
 1. Oil Spill Prevention & Response Act
 2. Waste handling requirements
 3. Reporting of releases
- B. Environmental Awareness
- C. Safe Hazardous Waste Planning
 1. Equipment location
 2. Incompatible waste
 3. Access space
 4. Employee precautions
- D. Spill/Release Prevention
 1. Secondary containment devices
 2. Containment device maintenance
 3. Inspection procedures
 4. Operational precautions
- E. Spill/Release Control Emergency Equipment
 1. Proper use and limitations
 2. Inspection procedures

- F. Oil and Waste Release Response
 - 1. Response to minor releases
 - 2. Response to significant releases
- G. Waste Minimization Practices
- H. OSHA Required Training
 - 1. HAZCOM/Personal Protective Equipment (PPE)
 - 2. Decontamination procedures
 - 3. Site safety plan review
 - 4. Confined space entry
 - 5. Emergency response
- I. The Emergency Response Team should be trained in the following courses:
 - 1. HAZWOPER 29CFR1910.120 I/C
 - 2. HAZCOM 29CFR1910.1200
 - 3. HAZWOPER 29CFR1910.120 24"Q"

Dowell personnel training records are maintained in the facility master file which is in the office. In accordance with 40 CFR 112.7(e)(10), Dowell personnel training and employee documentation records are kept in the files at the district office. These records include: job titles, job descriptions for each position, description of type and amount of training, and records documenting training or job experience.

4.0 OIL SPILL CONTINGENCY & HAZARDOUS WASTE EMERGENCY RESPONSE PLAN

4.1 Objectives

There are three primary objectives during a spill event. They are:

- 1. Stop the source of leakage
- 2. Contain the leakage
- 3. Commence remedial action

The order of priority for the above objectives will vary depending on the events and at what stage the leak is detected. For tank spills which have breached the firewall, containment activities should commence first. For spills associated with fires, remedial action should commence first. Consideration should be given to the fact that water used in fire fighting may cause an overflow of the spill containment systems. The general plan for oil spill/hazardous waste emergency response consists of four steps. They are:

1. The spill must be reported to the Emergency Coordinator (refer to the Phone Numbers in Attachment 5).
2. The Emergency Coordinator will determine which outside assistance organizations to contact, if any, to stop the leak, to contain the leak, and what form of remedial action is necessary. He will then initiate the necessary activities.
3. The Emergency Coordinator will determine which governmental agencies are required to be notified and ensure that these notifications are made.
4. The Emergency Coordinator will ensure that all non-Dowell Communications (i.e. news media) follow company policy.

The intent of the SPCC/RCRA plan is to provide the information necessary to respond properly to a spill event.

Generally, this facility could have four types of spill events:

1. Contained Spill - spill inside diked areas and all material is contained.
2. Controlled Small Spill - spill outside diked areas that is small enough not to spread off-site.
3. Uncontrolled Spill - a spill large enough to exceed diked capacity (due to weather or fire fighting water make-up) or the spill is outside of diked area, and the spill has significant potential to go off site.
4. Reportable Spill - the spill enters a ditch, is over 1,000 gallons or exceeds the reportable quantity for the material spilled.

4.2 Equipment Location

A list of available on-site equipment and the location of each item is provided in Attachment 8. The location of this equipment is also shown on the facility plot plan provided in Attachment 2. Other information which may be useful during an emergency event is provided below:

- There are several hand held radios available at the facility, which would be useful for communications.
- Outside contractors are available to provide personnel and equipment. A listing of local contractors is provided in Attachment 6.

4.3 Emergency Coordinator's Response

After receiving a report of a spill, leak or other emergency, the Emergency Coordinator shall:

1. Determine the extent of personal injuries, if any.
2. Identify the exact location of spill, leak or other emergency event.
3. Confirm if the event is still occurring and when it was first observed.
4. Contact appropriate personnel on the NAM HSE/Dowell Emergency Response list (Attachment 7).
5. Confirm the extent of spill, leak or emergency.
6. Determine methods to safely control the event.
7. Verify if spill containment devices are working.
8. Evaluate whether there are apparent on-site or off-site hazards associated with the event.
9. Decide which outside contractors will be utilized.
10. Determine present and predicted weather conditions at the facility.
11. Ensure that the Applicable government agencies are notified.

12. Determine Dowell contact for non-Dowell communications if necessary. Based on the above criteria, the Emergency Coordinator will implement the most appropriate response.

4.4 Other Considerations

4.4.1 Drum/Tote Leaks

Drum: If a leaking drum is detected, the contents remaining in the drum will be transferred to a new drum if this can be done safely. The empty drum will be put in the empty storage area for disposal or reclamation. If the contents cannot be safely transferred to another drum, then the leaking drum will be placed in a DOT-approved overpack drum for off-site disposal. Any spillage and clean up materials will also be placed into the overpack drum for disposal. A label will be placed on the overpack drum, identifying the contents and the original date that it was placed in storage.

Tote: Leaking totes will be handled the same way as leaking drums, except if the contents cannot be safely transferred to another drum or tote, then stop the leak, if possible, then contain the area with absorbent material.

4.4.2 Evacuation of Site

It is not foreseen that any facility release or event would require evacuation. However, if an evacuation were required, it would be announced over the plant public address (PA) system. The evacuation routes and assembly areas are shown on the enclosed diagram and on a map posted on the office bulletin board. (Specific evacuation procedures are applicable in the coastal region of the Gulf of Mexico for hurricanes.)

4.4.3 Arrangements with Local Authorities

A copy of this plan has been provided to the local fire and police departments, hospitals, state and local emergency response teams.

Information concerning materials and waste stored at the site is kept in the Emergency Coordinator's office. This information will be provided to police, firefighters, hospitals and other emergency response personnel as needed.

4.4.4 Decontamination

Equipment which requires decontamination will be decontaminated by using a high pressure wash, or by another appropriate method such as, but not limited to, a detergent wash. All wastes generated during decontamination procedures will be collected and disposed of off-site at an authorized facility. Any equipment which cannot be decontaminated will be disposed of off-site in an authorized facility.

5.0 REPORTING

5.1 Spills

When a discharge of oil, acid or other products leaves the facility's property or enters a drainage ditch, a REPORTABLE spill has occurred. The Dowell Emergency Coordinator will follow the steps outlined in Section 4.3 and then contact the emergency number (Attachment 7) to determine if the spill is a reportable spill. If the spill is a reportable spill, then either the Emergency Coordinator or the personnel on the Emergency Response System will notify the applicable governmental agencies.

5.2 Hazardous Waste Releases

If the facility has a fire, explosion or hazardous waste release which could threaten human health or the environment outside the facility, the incident must be reported according to company procedures to the:

- Local Police and Fire Departments if evacuation is required
- Emergency Number
- National Response Center and the State Emergency Response Commission
- Environmental Protection Agency (EPA)
- Other governmental agencies (state-specific).

5.3 Plan Amendment

In the event that this facility has a reportable spill event, local Dowell Management will review the circumstances causing the event and determine if amendment of this plan is necessary. Every three years the SPCC plan will be reviewed for completeness by Dowell Management. Further, all future modifications and changes in operations at this facility which materially affect this plan will be incorporated into a revised plan within 6 months after such changes occur.

ATTACHMENT 1

LOCATION MAP

ATTACHMENT 2
FACILITY PLOT PLAN

ATTACHMENT 3

**PRODUCT AND WASTE STORAGE
AND SPILL CONTAINMENT FACILITIES**

<u>Source</u>	<u>Potential Type of Failure</u>	<u>Gallons Stored</u>	<u>Secondary Containment</u>
Diesel & Gasoline storage tank	Rupture/Leak	160	Cement revetment
Hydrochloric acid tank	Rupture/Leak	15,000	Painted steel Revetment
Oil & Antifreeze	Rupture/Leak	2,125	Metal revetment
Drum/Tote storage area	Leak	6,000	Concrete Revetment
Used oil storage tank	Rupture/Leak	990	Metal revetment
Soap	Rupture/Leak	300	Metal Revetment
Skim oil tank	Rupture/Leak	800	Concrete Revetment
Slurry Gel Tank	Rupture/Leak	6,500	Steel Revetment

ATTACHMENT 4

ANNUAL TANK INSPECTION REPORT

<u>TANK DESCRIPTION</u>	<u>INSPECTION DATE</u>	<u>INSPECTED BY</u>	<u>REMARKS</u>
80 gal. Diesel & Gasoline Storage Tanks			
15,000 gal. HCL Acid Storage			
Oil & Antifreeze Storage Tanks			
Truck Wash Oil Skimmer Tank			
Soap Tank			
Slurry Gel Storage Tanks			

Note: Inspection must include:

- Integrity of joints¹
- Rusted areas
- Structural abnormalities
- Breathing vents condition
- Valving
- Condition of paint
- Condition of tank interior

¹If problems are causing leakage, the entire tank will be tested for adequate steel thickness, in accordance with Dowell Procedures.

ATTACHMENT 5

EMERGENCY CALL LIST

(In order of priority)

EMERGENCY COORDINATOR

<i>Name</i>	<i>Office Phone</i>	<i>Cellular Phone</i>	<i>Home Phone</i>
Jim Govenlock	505-393 6186	505-910 2460	505-392 2511
Mike Bird	505-393 6186	505-910 2477	505-392 2277
Darwin Thompson	505 748 1392	505 910 2481	505 746 3834
Randall Timms	505 393 6186	505 910 2459	505 392 6902

EMERGENCY ASSISTANCE TELEPHONE NUMBERS

FIRE Department	505-397 9308
POLICE Department	505-397 9265
AMBULANCE	505-397 9308
HOSPITAL Lea Regional Hospital	505-492 5000

**ADDITIONAL TELEPHONE NUMBERS FOR USE
BY THE EMERGENCY SUPERVISOR**

Oilfield Services Emergency Response Number	(281) 595 3518
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ATTACHMENT 6

SPILL CLEANUP CONTRACTORS

Indian Fire and Safety
3317 West County Road
Hobbs, New Mexico
505-393-3093
EPA I.D. NO. – NM D00719716

ATTACHMENT 7

CHEMICAL EMERGENCY RESPONSE SYSTEM

The Chemical Emergency Response System is designed to provide immediate response information to the scene of a transportation, medical or environmental chemical emergency on a worldwide basis. This system operates 24-hours a day, 7 days a week.

24 HOUR EMERGENCY TELEPHONE NUMBER:

1-281-595-3518

- I. **INCIDENT WHEN EMERGENCY PHONE NUMBER MAY BE USED:**
- A. *CHEMICAL OR OTHER HAZARDOUS MATERIAL SPILLS* from transport vehicles, storage facilities, equipment, or containers at the base or on location.
 - B. *MOTOR VEHICLE ACCIDENTS* in which there is a chemical spill or a potential for a spill to occur.
 - C. *PERSONNEL EXPOSURES* to chemicals.
 - D. *SUDDEN RELEASE* of chemical fumes.
- II. **ACTION TO BE TAKEN IMMEDIATELY:**
- A. *FIRST AID* for exposure or injury if required.
 - B. *ISOLATE AREA* by roping off as appropriate.
 - C. *Shut off source of emissions.*
 - D. *Contain spill if possible.*
 - E. *DO NOT discuss liability with anyone.*
 - F. **Telephone 1-281-595-3518.** Provide the following basic information (use estimates rather than waiting to get exact data):
 - 1. *A brief description of the incident.*
 - 2. *Identities of the chemicals (product codes are acceptable)*
 - 3. *Amount spilled (estimates are acceptable)*
 - 4. *Location and time of the incident.*
 - 5. *Name and phone number of local contact person (standby for call back from ER Team member).*

ATTACHMENT 8

**OIL SPILL/EMERGENCY RESPONSE EQUIPMENT
AND DECONTAMINATION EQUIPMENT**

<u>ITEM</u>	<u>QUANTITY</u>	<u>PURPOSE</u>	<u>LOCATION</u>
20# Dry Chemical	50	Fire-fighting	At least 1 at all storage areas
Hand-held Radios	3	Communications	Main Office Building
Intercom Systems	1	Communications & Alarm On-Site	On Site
Shovels & Rakes	4	Spill Cleanup	Emergency Response Kit
Absorbent "Soil"	10 sacks	Spill Cleanup	Emergency Response Kit
Trucks	3	Transport	On-Site
Overpack Drum	4	Spill Control	Drum Storage Pad
Drum Patch Kit	1	Spill Control	Emergency Response Kit
Absorbent booms	2	Spill Control	Emergency Response Kit

ATTACHMENT 9

MONTHLY ENVIRONMENTAL INSPECTION REPORT

Inspector: _____ Date: _____

Location: _____

- | | | | |
|-----|---|-----|----|
| 1. | Yard and parking area free of spills | Yes | No |
| 2. | Waste storage containers in good condition, leak free dated and properly labeled. | Yes | No |
| 3. | Drum Storage area free of spills or leaks and properly sealed. | Yes | No |
| 4. | Slurry gel plant free of spills or leaks. | Yes | No |
| 5. | Acid dock area free of leaks and spills | Yes | No |
| 6. | Cement plant free of spills and dust collector working properly. | Yes | No |
| 7. | Stimulation warehouse free of spills | Yes | No |
| 8. | Fuel island clean and free of spills. | Yes | No |
| 9. | Shop oil storage area free of spills and leaks. | Yes | No |
| 10. | Is Safety Kleen confined to the parts washer. | Yes | No |
| 11. | Paint and thinner properly stored. | Yes | No |
| 12. | Batteries in proper storage area. | Yes | No |
| 13. | Shop area free of spills | Yes | No |
| 14. | Is Emergency Response Equipment in working order and properly stocked? | Yes | No |

ANY "NO" ANSWERS REQUIRE CORRECTIVE ACTION AND COMMENTS BELOW:

ATTACHMENT 10

REGULATORY CROSS-REFERENCE MATRICES		
Spill Prevention, Control and Countermeasure Plan (40 CFR 112)		
40 CFR	Regulation or Requirement	Site Contingency Plan Citation(s)
112.3(a)	Owners or Operators of a New Facility must prepare an SPCC Plan	
112.3(d)	Professional Engineer's certification	1.2
112.3(e)	Owners or operators shall maintain a complete copy of the SPCC plan and make it available to the Regional Administration (RA) for on-site review during normal working hours	1.0
112.5(a)	Owners or operators shall amend the SPCC Plan whenever there is a change in facility design, construction, operation, or maintenance which materially affects the facility's potential to discharge oil into navigable waters.	1.2 5.3
112.5(b)	Provision for three year review	1.2 5.3
112.7(a)	Description of known oil spill events occurring in the one year prior to the effective date of this regulation, January 10, 1973 to January 10, 1974	NA
112.7(b)	Spill predictions: direction, rate of flow, total potential discharge quantity	2.1
112.7(c)	Description of secondary containment: dikes, berms, retaining walls, curbs, culverts, gutters, drainage systems, weirs, booms, spill diversion ponds, retention ponds, or sorbent materials	2.4.1 3.3 Attch 8
112.7 (e)(1)(i)	Plant drainage and treatment system are designed to handle leakage from diked storage areas.	3.3
112.7 (e)(1)(i)	Drainage from diked storage areas should be restrained by valves or other positive means.	3.3
112.7 (e)(1)(ii)	Valves used to drain diked storage areas are of manual open-and-closed design; stormwater should be inspected prior to release to receiving waters.	3.3
112.7 (e)(1)(iii)	Drainage from undiked areas flows into ponds, lagoons, or catchment basins designed to retain a spill or return it to the facility.	3.3 Attch 3
112.7 (e)(1)(iv)	Final discharge of in-plant ditches equipped with a diversion system	4.1 4.3
112.7	All oil storage tanks are constructed with materials that are	2.1

REGULATORY CROSS-REFERENCE MATRICES

Spill Prevention, Control and Countermeasure Plan (40 CFR 112)

40 CFR	Regulation or Requirement	Site Contingency Plan Citation(s)
(e)(2)(i)	compatible with oil storage.	
112.7 (e)(2)(ii)	All tanks should have secondary containment for the largest single tank plus freeboard. Diked areas should be sufficiently impervious to contain spills.	3.3
112.7 (e)(2)(iii)	Drainage of rainwater into ditches discharging off-site is acceptable if: dike drain valves are normally sealed closed, collected rainwater is inspected for visible contamination prior to discharge, the drain valve is opened and resealed following drainage under responsible supervision, and adequate records are kept of drainage events.	3.3
112.7 (e)(2)(iv)	Buried metallic oil storage tanks should be protected from corrosion by coatings, cathodic protection, or other effective methods compatible with local soil conditions.	NA
112.7 (e)(2)(iv)	Buried metallic storage tanks should be pressure tested regularly.	NA
112.7(v)	Partially buried metallic tanks should be avoided.	NA
112.7 (e)(2)(vi)	Above ground tanks should be periodically inspected using hydrostatic testing, visual inspection, or a system of non-destructive shell thickness testing. Tank supports and foundations should be included in these inspections.	3.5 Attch 4
112.7 (e)(2)(vi)	Where appropriate, comparison records are kept for oil storage tanks, tank supports, and foundation integrity testing.	3.5
112.7 (e)(2)(vi)	External visual inspections should be performed frequently for signs of deterioration and leaks.	3.5 Attch 9
112.7 (e)(2)(vii)	The steam return or exhaust lines from internal heating coils in oil storage tanks which discharge into an open water course should be monitored for contamination or passed through a settling tank, skimmer, or other separation or retention system.	NA
112.7 (e)(2) (viii)	Fail safe engineering devices such as high liquid level alarms at constantly manned surveillance points, high liquid level pump cutoff devices, direct audible or code communication between the tank gauger and the pumping station, or fast response systems such as a digital computer, telepulse, or direct vision gauges should be employed to prevent tank overflow.	2.4.1
112.7 (e)(2)(x)	Visible leaks which result in a loss of liquid from tank seams, gaskets, rivets, and bolts sufficiently large to cause the accumulation of liquid in diked areas should be promptly corrected.	3.5 Attch 9
112.7	Mobile or portable oil storage tanks should be positioned or located	2.1

REGULATORY CROSS-REFERENCE MATRICES

Spill Prevention, Control and Countermeasure Plan (40 CFR 112)

40 CFR	Regulation or Requirement	Site Contingency Plan Citation(s)
(e)(2)(xi)	so as to prevent spills from reaching navigable waters.	
112.7 (e)(2)(xi)	A secondary means of containment should be furnished for the largest single mobile oil tank or compartment.	3.3
112.7 (e)(3)(i)	Buried piping installations should have a protective wrapping and coating and should be cathodically protected if soil conditions warrant.	NA
112.7 (e)(3)(i)	Sections of buried line that are exposed for any reason should be carefully examined for deterioration.	NA
112.7 (e)(3)(i)	If corrosion damage is found, additional examination and corrective action should be taken as indicated by the magnitude of the damage.	NA
112.7 (e)(3)(ii)	When a pipeline is not in service or in standby service for an extended time, the terminal connection at the transfer point should be capped or blank-flanged, and marked as to its origin or the on/off switch should be marked as to origin.	3.1
112.7 (e)(3)(iii)	Pipe supports should be properly designed to minimize abrasion and corrosion, to allow for expansion and contraction, and to adequately support thrust loadings at bends.	1.2
112.7 (e)(3)(iv)	All above ground valves and pipelines should be regularly inspected by operating personnel, including flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces.	3.5 Attch 4
112.7 (e)(3)(iv)	Periodic pressure tests may be warranted for piping located in areas where the facility drainage is such that a failure might lead to a spill event if there is reason to suspect the integrity of the piping.	3.5
112.7 (e)(3)(v)	Vehicular traffic granted entry into the facility should be warned verbally or by appropriate signs to ensure that the vehicle, because of its size, will not endanger above ground piping.	2.1
112.7 (e)(4)(i)	Tank car and tank truck oil loading/unloading procedures should meet the <i>minimum standards of the DOT.</i>	3.6
112.7 (e)(4)(ii)	The containment system should be designed to hold at least the maximum capacity of any single compartment of a tank car or tank truck loaded or unloaded in the plant.	2.4 3.3
112.7 (e)(4)(iii)	An interlocked warning light, physical barrier system, or warning signs should be provided in loading/unloading areas to prevent vehicular departure before complete disconnect of flexible or fixed transfer lines.	2.4.1

REGULATORY CROSS-REFERENCE MATRICES

Spill Prevention, Control and Countermeasure Plan (40 CFR 112)

40 CFR	Regulation or Requirement	Site Contingency Plan Citation(s)
112.7 (e)(4)(iv)	Prior to filling and departure of any tank car or tank truck, the lowermost drain and all outlets of such vehicles should be closely examined for leakage and, if necessary, tightened, adjusted, or replaced to prevent liquid leakage while in transit.	2.4.1
112.7 (e)(8)	All required inspections should be in accordance with written procedures developed for the facility by the owner or operator.	3.5
112.7 (e)(8)	These written procedures and records of the inspections should be signed by the appropriate supervisor or inspector, kept as a part of this SPCC Plan, and maintained for three years.	3.5 Attch 4
112.7 (e)(9)(i)	The plant is fully fenced and entrance gates are locked and/or guarded when the plant is not in production or is unattended.	2.1
112.7 (e)(9)(ii)	The master flow and drain valves and any other valves that will permit direct outward flow of the tanks' contents to the surface should be securely locked in the closed position when in non-operating or non-standby status.	3.3
112.7 (e)(9)(iii)	The starter control on all pumps should be locked in the "off" position or located at a site accessible only to authorized personnel when the pumps are in a non-standby or non-operating status.	3.1
112.7 (e)(9)(iv)	The loading/unloading connections of pipelines should be securely capped or blind-flanged when not in service or standby service for an extended time.	2.4.1
112.7 (e)(9)(iv)	Pipelines that are emptied of liquid content either by draining or by inert gas pressure should be securely capped or blind-flanged when not in service or standby service for an extended time.	3.1
112.7 (e)(9)(v)	Facility lighting should be commensurate with the type and location of the facility, with consideration given to discovery of spills during hours of darkness by both operating and non-operating personnel and prevention of spills occurring through acts of vandalism.	3.2

REGULATORY CROSS-REFERENCE MATRICES

Spill Prevention, Control and Countermeasure Plan (40 CFR 112)

40 CFR	Regulation or Requirement	Site Contingency Plan Citation(s)
112.7 (e)(10)(i)	The owners or operators are responsible for properly instructing their personnel in the operation and maintenance of equipment to prevent discharges as well as applicable pollution control laws, rules, and regulations.	3.6
112.7 (e)(10)(ii)	The facility has a designated individual who is accountable for spill prevention and who reports to line management.	1.1
112.7 (e)(10) (iii)	Owners or operators should schedule and conduct spill prevention briefings for their operating personnel at intervals frequent enough to assure adequate understanding of the SPCC Plan for this facility.	3.6
112.7 (e)(10) (iii)	Such briefings should highlight and describe known spill events or failures, malfunctioning components, and recently developed precautionary measures.	3.6

REGULATORY CROSS-REFERENCE MATRICES

Resource Conservation and Recovery Act Plan (40 CFR 265)

40 CFR	Regulation or Requirement	Site Contingency Plan Citation(s)
265.52	Content of contingency plan	
265.52(a)	Emergency response actions	4.0
265.52(b)	Amendments to SPCC	5.3
265.52(c)	Coordination with State and local response parties	4.4.3
265.52(d)	Emergency coordinator(s)	2.2 Attch 5
265.52(e)	Detailed description of emergency equipment on-site	Attch 8
265.52(f)	Evacuation plan if applicable	4.4.2
265.53(a)	Copies of contingency plan maintained at the facility	1.0
265.53(b)	Copies of contingency plan submitted to state and local response parties	4.4.3
265.54	Amendment of contingency plan	5.3
265.55	Emergency coordinator	2.2
265.56	Emergency procedures	
265.56(a)	Notification	5.2 Attch 5
265.56(b)	Emergency identification/characterization	4.3
265.56(c)	Health/environmental assessment	4.3
265.56(d)	Reporting	5.0
265.56(e)	Containment	3.3 Attch 3
265.56(f)	Monitoring	3.5
265.56(g)	Treatment, storage or disposal of waste	2.1
265.56(h)	Cleanup procedures	3.3
	(1) Disposal	4.4.1
	(2) Decontamination	4.4.4
265.56(i)	Followup procedures	4.1, 4.3, 5.3
265.56(j)	Followup report	5.0

Environmental Oversight, Inc.

RECEIVED
APR 13 2001
NEW MEXICO OIL CONSERVATION DIVISION

April 9, 2001

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

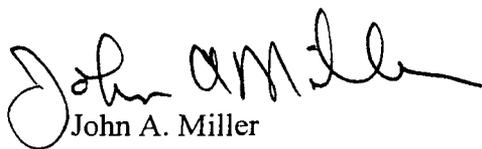
GW-073

RE: 2000 Annual Report for the Schlumberger Oilfield Services (Dowell) Facility in Hobbs,
New Mexico

Dear Mr. Ford:

On behalf of Schlumberger Oilfield Services (Dowell), enclosed are two copies of the 2000 Annual Report for the facility in Hobbs, New Mexico. The results of the fourth quarter ground-water monitoring event for 2000 is included in the annual report. If you have any questions concerning the results please feel free to contact me at (281) 285-8498.

Sincerely,


John A. Miller

JM:

cc: Western Water Consultants, Inc.

14019 S.W. Freeway, Suite 301, PMB187
Sugar Land, Texas 77478
281-285-8498
jamiller@slb.com



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

February 12, 2001

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 0173

Mr. John Miller
Dowell Schlumberger
P.O. Box 2727
Houston, Texas 77252-2727

RE: Discharge Plan Renewal Notice for the Dowell Schlumberger Facility

Dear Mr. Miller:

Dowell Schlumberger has the following discharge plan, which expires during the current calendar year.

GW-073 expires 10/22/2001 – Hobbs Facility

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

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

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

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

Sincerely,



Roger C. Anderson
Oil Conservation Division

RCA/wjf

cc: OCD Hobbs District Office

7099 3220 0000 5051 0173

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only, No Insurance Coverage Provided)	
Article Sent To:	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Name (Please Print Clearly) (To be completed by mailer) J. Miller	
Street, Apt. No.; or PO Box No. DS	
City, State, ZIP+ 4 9W-073	

PS Form 3800, July 1999 See Reverse for Instructions



John A. Miller
Remediation Manager
Oilfield Services

Schlumberger

December 6, 2000

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

GW-073

RE: Third Quarter Monitoring Results - 2000
Schlumberger Oilfield Services Facility – Hobbs, New Mexico

Dear Mr. Ford:

Enclosed are two copies of the third quarter environmental monitoring results for the Schlumberger Oilfield Services (Dowell) facility in Hobbs, New Mexico.

Western Water Consultants, Inc. (WWC) conducted quarterly monitoring activities at the facility on July 25th, 2000. Site maps of the Dowell facility are shown on Figures 1 and 2.

Ground-water Elevation Data

WWC measured static water levels in each of 15 ground-water monitoring wells located on, or adjacent to, the Dowell facility (see Figure 1).

All wells were opened and allowed to equilibrate prior to measuring water levels with an oil-water interface probe. Ground-water elevation data (Table 1) were used to generate a potentiometric surface map of the facility as shown on Figure 3.

Ground-water elevation data are presented on Table 1.

Ground-water Quality Data

Ground-water samples were collected from 9 of the 15 facility wells, in addition to the Shell Station Well (i.e., MW-4). Samples were submitted to Energy Laboratories, Inc. (Energy) in Casper, Wyoming for analysis by EPA Method 8260 (volatile organics by gas chromatography/mass spectrometry, or "GCMS").

Page 2
December 6, 2000

In accordance with recommendations presented in the 1998 Annual Report, Wells 925-3, 925-5, 925-10, 925-11 and 925-12 are only sampled during the fourth quarter monitoring event.

Duplicate samples were collected to verify laboratory quality assurance/quality control (QA/QC). Sample 925-A is a duplicate sample from Well 925-16; sample 925-B is a duplicate sample from Well 925-10.

A summary of ground-water quality analytical data is provided in Table 2. Total halocarbon concentrations in the vicinity of the Dowell facility are depicted graphically on Figure 4.

Proposed Monitoring Schedule

The fourth quarter monitoring activities were conducted October 16. Environmental data from that monitoring event will be submitted in the 2000 Annual Report.

If you have any questions or comments, please call me at 281/285-8498.

Sincerely,


John A. Miller
Remediation Manager

Enclosures

cc: Mr. Wayne Price, NMOCD-Hobbs District Office
WWC - Laramie, Wyoming

John A. Miller
Remediation Manager
Oilfield Services

Schlumberger

December 6, 2000

Mr. Mike Pearson
KW Fuels
717 West Sanger
Hobbs, New Mexico 88240

RE: Third Quarter Monitoring Results - 2000
Shell Station Well (MW-4) – Hobbs, New Mexico

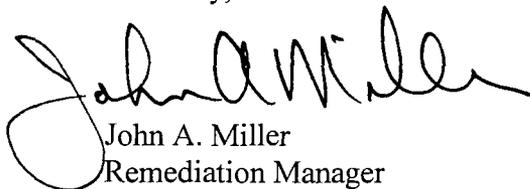
Dear Mr. Pearson:

Enclosed are the laboratory results for the ground-water sample Western Water Consultants, Inc. (WWC) collected from your well (Shell Station Well or MW-4) on July 25, 2000.

The results are submitted to you in accordance with an April 18, 1997 telephone agreement between you and Rick Deuell (WWC).

We appreciate your continued cooperation in this matter. If you have any questions regarding the results of the ground-water monitoring, please call me at 281/285-8498.

Sincerely,



John A. Miller
Remediation Manager

Enclosures

cc: WWC – Laramie, Wyoming

John A. Miller
Remediation Manager
Oilfield Services

June 2, 2000

Schlumberger

JUN - 7 2000

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

RE: April 2000 Monitoring Results for the Schlumberger Oilfield Services Facility in Hobbs, New Mexico.

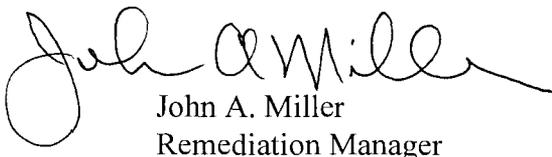
Dear Mr. Ford:

Enclosed are two copies of the second quarter monitoring results for 2000 at the Schlumberger Oilfield Services facility in Hobbs, New Mexico. Included in the report are site, potentiometric surface, and isoconcentration maps (Figures 1, 2, and 3), water quality and static water level data (Tables 1 and 2), and laboratory data reports.

Ground-water samples were collected from all monitoring wells except MW-3, MW-5, MW-10, MW-11, and MW-12, which are sampled only during the fourth quarter monitoring event. As shown by the water quality data on Table 2, halocarbons continue to show a general declining trend. Constituents detected in the monitoring wells remain within historical trends.

The third quarter sampling event is tentatively scheduled for July, 2000. If you have any questions concerning the results, please feel free to contact me at (281) 285-8498.

Sincerely,


John A. Miller
Remediation Manager

JM:
Enclosures
cc Mr. Wayne Price, NMOCD Hobbs District Office
Western Water Consultants, Inc.

John A. Miller
Remediation Manager
Oilfield Services
May 3, 2000

Schlumberger

RECEIVED

MAY 08 2000

Environmental Bureau
Oil Conservation Division

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

RE: First Quarter Monitoring Results for the Schlumberger Oilfield Services Facility in Hobbs, New Mexico.

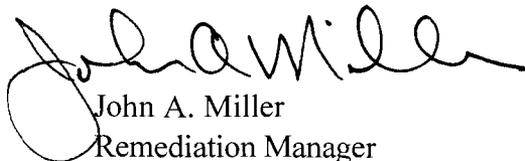
Dear Mr. Ford:

Enclosed are two copies of the first quarter monitoring results for 2000 at the Schlumberger Oilfield Services facility in Hobbs, New Mexico. Included in the report are site, potentiometric surface, and isoconcentration maps (Figures 1, 2, 3, and 4), water quality and static water level data (Tables 1 and 2), and laboratory data reports.

Ground-water samples were collected from all monitoring wells except MW-3, MW-5, MW-10, MW-11, and MW-12, which are sampled only during the fourth quarter monitoring event. As shown by the water quality data on Table 2, halocarbons have declined from a high of 5.9 parts per million (ppm) in 1996 to under 0.4 ppm during the first quarter of 2000. Total halocarbons detected in the ground-water at MW-8 and MW-9 also declined slightly over the past quarter. Constituents detected in the other monitoring wells have remained relatively stable and within historical trends.

If you have any questions concerning the results please feel free to contact me at (281) 285-8498.

Sincerely,



John A. Miller
Remediation Manager

JM:sb
Enclosures
cc: Western Water Consultants, Inc.

John A. Miller
Remediation Manager
Oilfield Services

Schlumberger

February 28, 2000

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

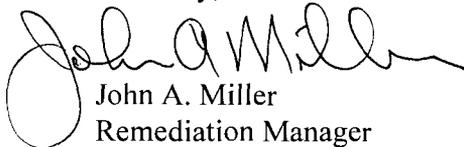
RE: 1999 Annual Report for the Dowell, a division of Schlumberger Technology Corporation
Facility in Hobbs, New Mexico.

Dear Mr. Ford:

Enclosed are two copies of the 1999 Annual Report for the Dowell, a division of
Schlumberger Technology Corporation facility in Hobbs, New Mexico for 1999.

If you have any questions or comments, please call me at (281) 285-8498.

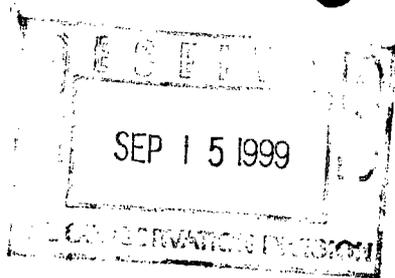
Sincerely,


John A. Miller
Remediation Manager

cc: WWC

John A. Miller
Remediation Manager
Oilfield Services

September 13, 1999



Schlumberger

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

RE: Third Quarter Monitoring Results for the Dowell, a division of Schlumberger Technology Corporation Facility in Hobbs, New Mexico.

Dear Mr. Ford:

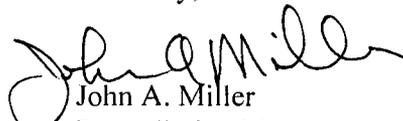
Enclosed are two copies of the third quarter ground-water monitoring results for the Dowell, a division of Schlumberger Technology Corporation facility in Hobbs, New Mexico for 1999. Included in the report are site, potentiometric surface, and isoconcentration maps (Figures 1, 2, 3, and 4), water quality and static water level data (Tables 1 and 2), and laboratory data reports.

Ground-water samples were collected from all monitoring wells except MW-3, MW-5, MW-10, MW-11, and MW-12 which are sampled only during the fourth quarter monitoring event. As shown by the water quality data in Table 2, both BTEX and chlorocarbons in the ground-water at MW-2 have declined significantly since remediation began in the former wastewater pond area. Total halocarbons have decreased by an order of magnitude and BTEX constituents have been at nondetect levels for the past three monitoring events.

Total halocarbons in the ground-water at MW-4 have also decreased an order of magnitude since remediation began in the former UST area. In addition, total halocarbon concentrations have consistently declined in the ground-water at monitoring wells MW-8 and MW-9 over the last four consecutive monitoring events.

The fourth quarter ground-water monitoring event for 1999 is tentatively scheduled for October-November, 1999. If you have any questions concerning the results please feel free to contact me at (281) 285-8498.

Sincerely,


John A. Miller
Remediation Manager

cc: WWC



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

February 9, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-357-870-062

Mr. John Miller
Remediation Manager
Schlumberger Oilfield Services
300 Schlumberger Drive
Sugar Land, TX 77478

**RE: Minor Modification
GW-073, Dowell Schlumberger - Hobbs
Installation of Above Ground Tank**

Dear Mr. Miller:

The New Mexico Oil Conservation Division (OCD) has received **Dowell Schlumberger's** letter on February 8, 1999 requesting modification to the existing discharge plan GW-073 at the Hobbs Service facility. Based upon the information supplied with the **Dowell Schlumberger** request the OCD considers the change as a minor modification to the above referenced discharge plan and public notice will not be issued. **The requested minor modification is hereby approved.**

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

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

Note, that OCD approval does not relieve Dowell Schlumberger of liability should Dowell Schlumberger' operation result in contamination of surface waters, ground waters or the environment. Also, OCD approval does not relieve Dowell Schlumberger from responsibility to comply with other Federal, State, and Local rules/regulations that may apply to this project.

If you have any questions please feel free to call Jack Ford at (505)-827-7156.

Sincerely,

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

Roger C. Anderson
Environmental Bureau Chief

cc: OCD Hobbs Office

Z 357 870 062

US Postal Service

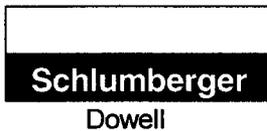
Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to <i>John Miller</i>	
Street & Number <i>DS</i>	
Post Office, State, & ZIP Code <i>Sugarland</i>	
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	<i>GW-073</i>

PS Form 3800, April 1995



RECEIVED
FEB - 8 1999

Mr. Roger Anderson
State of New Mexico
Oil Conservation Division
Environmental Bureau
2040 S. Pacheco
Santa Fe, NM 87505

Re: Discharge Plan GW-73
Hobbs Facility
Lea County, NM

Dear Mr. Anderson

Dowell Schlumberger is requesting an addition to Discharge Plan GW-73. This addition will involve installing an above ground tank for the purpose of storing a petroleum based chemical slurry at the Hobbs Facility.

The tank will be an unlined 6300 gallon upright cylindrical steel tank. It will be placed inside a steel containment area that will hold a minimum of 133% of the tank volume to prevent the release of chemicals in case of a spill or leakage. The loading and unloading of this tank will also be performed inside a contained area. The tank and containment will be located immediately North of the current acid loading and storage facility.

This addition is necessary to facilitate the continued operations of Dowell Schlumberger at this facility. The chemical that will be stored in this tank is already listed and approved on the SARA Tier II report for the Hobbs facility.

The tank will be installed and maintained in accordance with all applicable city, state, and federal regulations. We propose to have this tank installed and operational by June 1999.

Please respond in writing for filing purposes. If you have any questions please call (505) 393 6186. Thank you very much for your consideration in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Darwin Thompson".

Darwin Thompson
Maintenance Supervisor

Dowell
P.O. Box 640
Hobbs, NM 88241
(505) 393-6186

November 24, 1997

DEC - 1 1997

Mr. Patricio W. Sanchez
Environmental Bureau
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Mr. Sanchez

**Re: Renewal Inspection
Correction Measures
Discharge Plan GW-073
Dowell Schlumberger Hobbs Facility**

Following are the actions taken to correct the measures addressed in the letter dated June 30, 1997 from NMOCD.

1. The underground piping systems carrying non-sanitary wastes at the Dowell Hobbs facility have been hydrostatically tested as stated. All lines which did not pass the hydrostatic test were replaced. These piping systems were tested up to the cement lined bell manways.
2. The cement sump at the office building was cleaned and visually inspected before it was hydrostatically tested for integrity. It passed all tests.
3. The Hobbs office of the NMOCD was notified before performing these tests.

Sincerely,



Steven E. Thoen
District Manager Dowell
Hobbs, New Mexico

cc: Mr. Wayne Price- Environmental Engineer, OCD Hobbs District
Mr. John Miller- Schlumberger Oilfield Services



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

June 30, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-625

Mr. Steve Thoen
District Manager
Dowell Schlumberger (DS)
1105 W. Bender
Hobbs, New Mexico 88240

**RE: Renewal Inspection "DS letter dated June 26, 1997"
Discharge Plan GW-073
Dowell Schlumberger Hobbs Facility**

Dear Mr. Thoen:

The New Mexico Oil Conservation Division (OCD) has completed its review of the above mentioned correspondence from DS dated June 26, 1997. This letter was submitted in response to the OCD "Renewal Inspection" report from OCD dated May 15, 1997. **The information as submitted by DS dated June 26, 1997 is hereby approved with the following condition(s):**

1. DS will have conducted points (1) and (2) in the June 26, 1997 letter from DS by December 1, 1997.
2. DS will notify Mr. Wayne Price of the Hobbs OCD District Office 72 hours in advance of implementing condition (1) above at (505)-393-6161, so that OCD may have a witness present.

Be advised that OCD approval does not relieve DS from liability should contamination of groundwater or the environment occur. Further, OCD approval does not relieve DS from responsibility to comply with other federal, state, and local rules and regulations that may apply to this facility.

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

Sincerely,

Patricio W. Sanchez
Petroleum Engineering Specialist
Environmental Bureau - OCD

c: OCD Hobbs District
Mr. John Miller - Schlumberger Oilfield Services (P-326-936-626)

P 326 936 626

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

Sent to DS - Mr. Miller	
Street & Number GW-073 DP. REN. INS.	
Post Office, State, & ZIP Code "Plan of Action"	
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

P 326 936 625

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

Sent to DS - Mr. Thoen	
Street & Number GW-073, DP. REN. INS.	
Post Office, State, & ZIP Code "Plan of Action"	
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

Dowell Schlumberger Incorporated
P.O. Box 640
Hobbs, New Mexico 88241
(505) 393-6186 (office)

RECEIVED

JUN 27 1997

Environmental Bureau
Oil Conservation Division

June 26, 1997

Mr. Patricio W. Sanchez
Environmental Bureau
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Mr. Sanchez:

**Subject: Renewal Inspection
Discharge Plan GW-073
Dowell Schlumberger Hobbs Facility**

Following are the proposals for addressing the concerns listed in the Renewal Inspection for Discharge Plan GW-73 conducted at our facility located at 1105 W. Bender, Hobbs New Mexico on 4/11/97.

1. We propose to hydrostatically pressure test the two underground piping systems at the facility by attaching a vertical stand pipe seven feet in length at each end of the existing sewer pipes. The stand pipes, when filled with water will produce approximately 3 PSI on the piping system. The water column in the standpipes will be left for one hour and visually checked for any loss which would indicate a leak. If a leak is discovered, the piping will then be repaired or replaced as needed and again tested for leaks as outlined above.
2. The integrity of the sump will be verified by completely draining the sump, cleaning it thoroughly, and visually inspecting the condition of the walls and floor for any sign of cracks or leakage. We will then seal all connections into the sump and fill the sump with water and observe the water level for one hour to check for leaks. This process will be documented for future reference.
3. Only wastes which meet the requirements of the City of Hobbs Industrial Waste Code are disposed of in this waste stream. Specifically; no oils, greases, chemicals, or water with a pH of <5.5 or >9.5 are disposed of through this waste stream. This waste stream has been sampled and analyzed. The results of the analysis are attached. There are no hazardous wastes as defined by RCRA included in this waste stream. The wastes are discharged to the City of Hobbs Waste Treatment facility located in Lea County, New Mexico. The volume of waste generated is approximately 700 gallons per month.

June 26, 1997

Sincerely,

A handwritten signature in cursive script, appearing to read "Steve Thoen".

Steven E. Thoen
District Manager Dowell
Hobbs New Mexico

Enclosure - Analytical Results for Lab Sump Waste Stream

Cc: Mr. Wayne Price - Environmental Engineer, OCD Hobbs District
Mr. John Miller - Schlumberger Oilfield Services



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 840
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 05/30/97
 Reporting Date: 06/02/97
 Project Number: NOT GIVEN
 Project Name: OFFICE BLDG
 Project Location: HOBBS, NM
 Sample ID: NOT GIVEN
 Lab Number: H2978-1

Analysis Date: 05/30/97
 Sampling Date: 05/30/97
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: GP
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H2978-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.086	86	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.090	90	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.104	104	0.100
Chloroform	6.0	<0.005	<0.005	0.101	101	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.095	95	0.100
Benzene	0.5	0.048	<0.005	0.102	102	0.100
Carbon Tetrachloride	0.5	0.012	<0.005	0.091	91	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.102	102	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.108	108	0.100
Chlorobenzene	100	<0.005	<0.005	0.103	103	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.118	118	0.100

% RECOVERY

	MI(84)
Dibromofluoromethane	93
Toluene-d8	93
Bromofluorobenzene	95

METHODS: EPA SW 848-8280, 1311

MI=Matrix Interference (foaming during purge); dilution required.

Burgess J.A. Cooke
 Burgess J.A. Cooke, Ph. D.

6/2/97
 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 DOWELL SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 640
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 05/30/97
 Reporting Date: 06/06/97
 Project Number: NOT GIVEN
 Project Name: OFFICE BLDG
 Project Location: HOBBS, NM
 Sample ID: NOT GIVEN
 Lab Number: H2978-1

Analysis Date: 06/05/97
 Sampling Date: 05/30/97
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: GP
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H2978-1	Method Blank	QC	%Recov.	True Value QC
Pyridine	5.00	<0.005	<0.005	0.040	40	0.100
1,4-Dichlorobenzene	7.50	<0.005	<0.005	0.059	59	0.100
o-Cresol	200	<0.005	<0.005	0.058	58	0.100
m, p-Cresol	200	<0.005	<0.005	0.108	54	0.200
Hexachloroethane	3.00	<0.005	<0.005	0.055	55	0.100
Nitrobenzene	2.00	<0.005	<0.005	0.084	84	0.100
Hexachloro-1,3-butadiene	0.500	<0.005	<0.005	0.067	87	0.100
2,4,6-Trichlorophenol	2.00	<0.005	<0.005	0.100	100	0.100
2,4,5-Trichlorophenol	400	<0.005	<0.005	0.099	99	0.100
2,4-Dinitrotoluene	0.130	<0.005	<0.005	0.103	103	0.100
Hexachlorobenzene	0.130	<0.005	<0.005	0.111	111	0.100
Pentachlorophenol	100	<0.005	<0.005	0.111	111	0.100

% RECOVERY

Fluorophenol	14
Phenol-d5	22
Nitrobenzene-d5	83
2-Fluorobiphenyl	74
2,4,6-Tribromophenol	28
Terphenyl-d14	49

METHODS: EPA SW 846-8270, 1311, 3510

Burgess A. Cooke
 Burgess A. Cooke, Ph. D.

6/6/97
 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

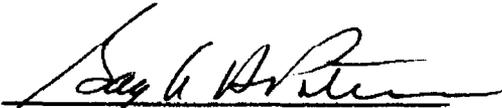
**ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88240
FAX TO:**

**Receiving Date: 05/30/97
Reporting Date: 06/03/97
Project Number: NOT GIVEN
Project Name: OFFICE BLDG
Project Location: HOBBS, NM**

**Sampling Date: 05/30/97
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/AH**

LAB NUMBER SAMPLE ID	REACTIVITY			
	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:	06/02/97	06/02/97	06/02/97	06/03/97
H2978-1	<10	<10	10.10	>140
Quality Control	NR	NR	7.00	NR
True Value QC	NR	NR	7.00	NR
% Accuracy	NR	NR	100	NR
Relative Percent Difference	NR	NR	0	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, 40 CFR 261


Chemist

06/06/97
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. Cardinal shall not be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



**ARDINAL
LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88240
FAX TO:

Receiving Date: 05/30/97
Reporting Date: 06/06/97
Project Number: NOT GIVEN
Project Name: OFFICE BLDG.
Project Location: HOBBS, NM

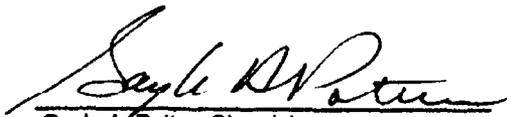
Sampling Date: 05/30/97
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: GP

TCLP METALS

LAB NUMBER SAMPLE ID As Ag Ba Cd Cr Pb Hg Se
 ppm ppm ppm ppm ppm ppm ppm ppm

ANALYSIS DATE:	06/05/97	06/05/97	06/05/97	06/05/97	06/05/97	06/05/97	06/05/97	06/05/97	06/05/97
EPA LIMITS:	5	5	100	1	5	5	0.2	1	
H2978-1	<1	<1	<5	<0.1	<1	<1	<0.2	<0.1	
Quality Control	0.1114	4.01	10.4	1.017	1.000	5.02	0.1020	0.177	
True Value QC	0.1000	4.00	10.0	1.000	1.000	5.00	0.1000	0.100	
% Recovery	111	101	104	101	100	102	102	88.5	
Relative Standard Deviation	21.5	0.9	1.4	1.1	0.6	0.8	1.1	18.5	

METHODS: EPA 1311, 800/4-91/ 206.2 272.1 208.1 213.1 218.1 239.1 245.1 270.2


Gayle A. Potter, Chemist

06/06/97
Date

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NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

May 15, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-378

Mr. Steve Thoen
District Manager
Dowell Schlumberger
1105 W. Bender
Hobbs, New Mexico 88240

RE: Renewal Inspection
Discharge Plan GW-073
Dowell Schlumberger Hobbs Facility

Dear Mr. Thoen:

1996 DWB
6/30/97

The New Mexico Oil Conservation Division (OCD) has completed this inspection report as part of the permit renewal process for discharge plan GW-073. The following OCD staff members were present during the renewal inspection on Friday April 11, 1997 - Mr. Wayne Price and Mr. Patricio Sanchez. The purpose of this report is to provide Dowell Schlumberger with the information that is needed to comply with the terms and conditions of GW-073 as renewed by the OCD on October 15, 1997. However, it will be Dowell Schlumberger's responsibility to comply with the terms and conditions of GW-073.

1. Dowell Schlumberger will submit a plan to pressure test all below grade lines (waste water) to 3 psig above normal working pressure of the line - see OCD "Discharge Plan Guidelines, Revised 12-95" page 9. The testing plan must be approved by the Santa Fe OCD office. Also, all below grade sumps that do not have leak detection and secondary containment must be cleaned and inspected for integrity yearly - with written documentation kept at the facility so that OCD may view the inspection results at any time during a facility inspection. Any below grade sump or tank that is found not to have integrity shall be reported to the Santa Fe OCD office with a proposed corrective action plan to repair the sump or below grade tank and identify possible contamination. (See permit condition number (8) and (9) from the permit renewal dated October 15, 1996 from OCD.)

Note: Any new sumps, below grade tanks, double lined evaporation ponds, or modifications to the discharge plan will be approved by the OCD Santa Fe office before installation or alteration of an approved permit condition or commitment - Please see the enclosed "Discharge Plan Guidelines, Revised 12-95" for other items that require OCD approval.

Mr. Steve Thoen
 Dowell Schlumberger - GW-073
 Discharge Plan Renewal Inspection
 May 15, 1997
 Page 2

- The outdoor "sump" for the collection of lab waste (see photo number 4) is in need of inspection/investigation. Also, please provide the OCD with a characterization of the lab waste as per 40 CFR Part 261 - and provide the regulatory status of the lab waste in terms of RCRA (i.e. Hazardous or Non-Hazardous). Provide the name and location of the disposal facility that accepts the lab waste, along with the volume per month.

Note: Submit a response to (1) and (2) above to the OCD Santa Fe Office and the Hobbs District Office by June 30, 1997.

If Dowell Schlumberger has any questions with regards to this inspection report feel free to contact the me at (505)-827-7156.

Sincerely,



Patricio W. Sanchez
 Petroleum Engineering Specialist
 Environmental Bureau - OCD

(Enclosure - Photographs taken on April 11, 1997 by the OCD of Dowell Schlumberger, permit conditions from the renewal dated October 15, 1996, and Discharge Plan Guidelines, Revised 12-95)

- c: Mr. Wayne Price - Environmental Engineer, OCD Hobbs District
 Mr. John Miller - Schlumberger Oilfield Services (P-410-431-379)w/o enclosure

547E TEH DTH P

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

Street & Number <i>PS - Miller</i>	Postage \$
Post Office, State, & ZIP Code <i>Discharge Plan Renewal Inspection</i>	Certified Fee
Return Receipt Showing to Whom & Date Delivered	Special Delivery Fee
Return Receipt Showing to Whom, Date, & Addressee's Address	Restricted Delivery Fee
TOTAL Postage & Fees \$	Postmark or Date

PS Form 3800, April 1995

PS Form 3800, April 1995

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

Street & Number <i>PS - Mr. Thoen,</i>	Postage \$
Post Office, State, & ZIP Code <i>Discharge Plan Renewal Inspection</i>	Certified Fee
Return Receipt Showing to Whom & Date Delivered	Special Delivery Fee
Return Receipt Showing to Whom, Date, & Addressee's Address	Restricted Delivery Fee
TOTAL Postage & Fees \$	Postmark or Date

P 410 431 378

DOWELL SCHLUMBERGER GW-073
(PHOTOS BY OCD)



PHOTO NO. 1

DATE: 4/11 /97



PHOTO NO. 2

DATE: 4/11/97

DOWELL SCHLUMBERGER GW-073
(PHOTOS BY OCD)



PHOTO NO. 3

DATE: 4/11 /97



PHOTO NO. 4

DATE: 4/11/97

DOWELL SCHLUMBERGER GW-073
(PHOTOS BY OCD)



PHOTO NO. 5

DATE: 4/11 /97



PHOTO NO. 6

DATE: 4/11/97

DOWELL SCHLUMBERGER GW-073
(PHOTOS BY OCD)



PHOTO NO. 7

DATE: 4/11 /97

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 11/4/96
or cash received on _____ in the amount of \$ 690.00
from Stephanie Vela for D/S
for Hobbs SW-073

Submitted by: _____ Date: _____
Submitted to ASD by: R. Chudler Date: 12/11/96
Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility _____ Renewal
Modification _____ Other _____
(specify)

Organization Code 521.07 Applicable FY 97

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment _____

SUNWEST BANKING SUNWEST BANKING SUNWEST BANKING SUNWEST BANKING SUN

STEPHANIE VELA 3-94
DBA PETTY CASH
P. O. BOX 640
HOBBS, NM 88241

11-4 96

95-321/1122

PAY TO THE
ORDER OF

State of NM OCD \$ 690.00
Six hundred ninety + 00/100 DOLLARS

SUNWEST

SUNWEST BANK OF HOBBS, N.A.
HOBBS, NEW MEXICO 88241 (505) 393-6460

Dwight Schlumberger

Stephanie Vela



ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 9/3/96

or cash received on _____ in the amount of \$ 50.00

from Stephanie Vela for D/S

for Hobbs facility GW-073

Submitted by: _____ Date: _____

Submitted to ASD by: R. Anderson Date: 10/18/96

Received in ASD by: R. Anderson Date: 10/17/96

Filing Fee XR New Facility _____ Renewal _____

Modification _____ Other _____

Organization Code 521.07 Applicable FY 97

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

STEPHANIE VELA 3-94
DBA PETTY CASH
P. O. BOX 640
HOBBS, NM 88241

9-3 96 95-321/1122

PAY TO THE ORDER OF NMED \$ 50.00
Fifty & no/100 DOLLARS

SUNWEST

SUNWEST BANK OF HOBBS, N.A.
HOBBS, NEW MEXICO 88241 (505) 397-6450

GW-073-Renewal Stephanie Vela

Hobbs, NM 88241-1980
District II - (505) 748-1233
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Energy Minerals and Natural Resources Department

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

Revised 12/17

Submit Origin
Plus 1 Copy
to Santa
1 Copy to appropriate
District Office

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

62-073

New

Renewal

Modification

Renewal

- Type: Oil + Gas Service Discharge Plan
- Operator: Dowell Schlumberger
Address: 1105 W. Bower / P.O. Box 640 Hobbs N.M. 88241
Contact Person: Randall Timms or Darwin Thompson Phone: 505-393-6186
- Location: NE 1/4 NE 1/4 Section 28 Township 18S Range 30E
Submit large scale topographic map showing exact location.

- Attach the name, telephone number and address of the landowner of the facility site.
- Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
- Attach a description of all materials stored or used at the facility.
- Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
- Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
- Attach a description of proposed modifications to existing collection/treatment/disposal systems.
- Attach a routine inspection and maintenance plan to ensure permit compliance.
- Attach a contingency plan for reporting and clean-up of spills or releases.
- Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
- Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
- CERTIFICATION

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

NAME: BRIAN T. TAYLOR Title: District Manager
Signature: Brian T Taylor Date: 9-3-90

RECEIVED

SEP 04 1996

Environmental Bureau
Oil Conservation Division

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Notice Of Publication

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

September 10, 1996

and ending with the issue of
September 10, 1996

And that the cost of publishing said notice is the sum of \$ 44.00

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

Joyce Clemens
Subscribed and sworn to before me this 19th

day of September, 1996

Jean Serice
Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 1998

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

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

(GW-73)-Dowell Schlumberger, Mr. Randall Timms, (505)-393-6186, 1105 West Bender, Hobbs, NM, 88240, has submitted a Discharge Plan Renewal Application for their Hobbs Service facility located in the NE/4 NE/4, Section 28, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. All wastes be stored in closed top receptacles and will be disposed of at an OCD approved facility. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 68 feet with a total dissolved solids concentration of ranging from 300 to 700 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday 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 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 4th day of September, 1996.

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

SEAL
Published in the Lovington Daily Leader September 10, 1996.

RECEIVED

SEP 27 1996

Environmental Bureau
Oil Conservation Division

The Santa Fe New Mexican

Since 1849 We Read You

NEW MEXICO OIL CONSERVATION
ATTN: SALLY
2040 S. PACHECO ST.
SANTA FE, NM 87505

AD NUMBER: 548788

ACCOUNT: 56689

LEGAL NO: 60378

P.O. #: 96199002997

RECEIVED

SEP 17 1996

Environmental Bureau
Oil Conservation Division

165 LINES once at \$ 66.00
Affidavits: 5.25
Tax: 4.45
Total: \$ 75.70

AFFIDAVIT OF PUBLICATION

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 4th day of September 1996.

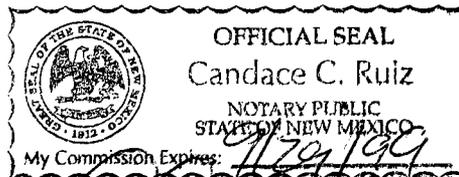
STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION
WILLIAM J. LEMAY,
Director
Legal #60378
Pub. September 12, 1996

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 News paper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 60378 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 12th day of SEPTEMBER 1996 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/s/ Betsy Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
12th day of SEPTEMBER A.D., 1996.



Candace C. Ruiz

202 East Marcy Street • P.O. Box 2016 • Santa Fe, New Mexico, 87501

505-983-3303 • NEWMEX@NEW MEXICO.COM • http://www.interart.net/zia.connection/

6/7/06

Description	FUND	CES	DFA ORG	DFA ACCT	ED ORG	ED ACCT	AMOUNT
1 CY Reimbursement Project Tax	064	01					
5 Gross Receipt Tax	064	01		2329	900000	2329134	
3 Air Quality Title V	092	13	1300	1896	900000	4169134	
4 PRP Prepayments	248	14	1400	9696	900000	4989014	
2 Climax Chemical Co.	248	14	1400	9696	900000	4989016	
6 Circle K Reimbursements	248	14	1400	9696	900000	4989248	
7 Hazardous Waste Permits	339	27	2700	1696	900000	4169027	
8 Hazardous Waste Annual Generator Fees	339	27	2700	1696	900000	4169339	
10 Water Quality - Oil Conservation Division	341	29		2329	900000	2329029	100
11 Water Quality - GW Discharge Permit	341	29	2900	1696	900000	4169029	
12 Air Quality Permits	631	31	2500	1696	900000	4169031	
13 Payments under Protest	651	33		2919	900000	2919033	
14 Xerox Copies	652	34		2349	900000	2349001	
15 Ground Water Penalties	652	34		2349	900000	2349002	
16 Witness Fees	652	34		2349	900000	2349003	
17 Air Quality Penalties	652	34		2349	900000	2349004	
18 OSHA Penalties	652	34		2349	900000	2349005	
19 Prior Year Reimbursement	652	34		2349	900000	2349006	
20 Surface Water Quality Certification	652	34		2349	900000	2349009	
21 Jury Duty	652	34		2349	900000	2349012	
22 CY Reimbursements (i.e. telephone)	652	34		2349	900000	2349014	
23 UST Owner's List	783	24	2500	9696	900000	4989201	
24 Hazardous Waste Notifiers List	783	24	2500	9696	900000	4989202	
26 UST Maps	783	24	2500	9696	900000	4989203	
28 UST Owner's Update	783	24	2500	9696	900000	4989205	
28 Hazardous Waste Regulations	783	24	2500	9696	900000	4989207	
29 Radiologic Tech. Regulations	783	24	2500	9696	900000	4989208	
30 Superfund CERLIS List	783	24	2500	9696	900000	4989208	
31 Solid Waste Permit Fees	783	24	2500	9696	900000	4989211	
32 Smoking School	783	24	2500	9696	900000	4989213	
33 SWQB - NPS Publications	783	24	2500	9696	900000	4989214	
34 Radiation Licensing Regulation	783	24	2500	9696	900000	4989222	
35 Sale of Equipment	783	24	2500	9696	900000	4989228	
36 Sale of Automobile	783	24	2500	9696	900000	4989301	
37 Lust Recoveries	783	24	2500	9696	900000	4989302	
38 Lust Repayments	783	24	2500	9696	900000	4989814	
39 Surface Water Publication	783	24	2500	9696	900000	4989815	
40 Exxon Road Drive Ruidoso - CAF	783	24	2500	9696	900000	4989801	
41 Emerg. Hazardous Waste Penalties NOV	957	32	9600	1696	900000	4989242	
42 Radiologic Tech. Certification	987	05	0500	1696	900000	4164032	
44 Ust Permit Fees	989	20	3100	1696	900000	4169005	
45 UST Tank Installers Fees	989	20	3100	1696	900000	4169020	
46 Food Permit Fees	991	28	2600	1696	900000	4169021	
43 Other							

Gross Receipt Tax Required _____ Site Name & Project Code Required _____ TOTAL _____

Contact Person: Wayne Price Phone: 476-3490 Date: 6/7/06

Received in ASD By: _____ Date: _____ RT #: _____ ST #: _____

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 6/22/06

or cash received on _____ in the amount of \$ 100⁰⁰

from Schlumberger Technology Corp

for GW-073

Submitted by: Lawrence Romero Date: 6/7/06

Submitted to ASD by: Jawana Romero Date: 6/7/06

Received in ASD by: _____ Date: _____

Filing Fee New Facility _____ Renewal

Modification _____ Other _____

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

© DELUXE WALLET OR DUPLICATE

 **DARWIN OR ANNA THOMPSON** 04-82 95-43/1122 No. [redacted]
2009 W. BULLOCK PH. 746-3834 63055112
ARTESIA, NM 88210-2236 *DATE 6-22-06*

Pay to the order of Water Management Quality Mgmt Fund \$ 100.00
one hundred and no/100 **DELUXE**  Security Features
Including
Dishes on Back.

1ST NATIONAL BANK MEMBER FDIC
303 W. MAIN ST. P.O. BOX AA 505-746-8000
ARTESIA, NEW MEXICO 88211-7528
ARTESIA • HOBBS • LAS CRUCES • ROSWELL

Memo GWDP GW-073 Darwin Thompson MP
[redacted]

ANTIQUE

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

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

Revised June 10, 2003

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

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

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

New Renewal Modification

1. Type: _____ Service Company _____
2. Operator: _____ Schlumberger Technology Corporation _____
Address: _____ 1105 West Bender Ave., Hobbs, NM 88240 _____
Contact Person: _____ Darwin Thompson _____ Phone: _____ 505 393 6186 _____
3. Location: _____ NW _____ /4 _____ NE _____ /4 Section _____ 28 _____ Township _____ 18S _____ Range _____ 38E _____
Submit large-scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of wastewater 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: Darwin Thompson

Title: Facility Manager

Signature: Darwin Thompson

Date: 5-30-06

E-mail Address: thompson3@hobbs.oilfield.slb.com

**DISCHARGE PLAN GW-073
SCHLUMBERGER WELL SERVICES
1105 WEST BENDER
HOBBS, NEW MEXICO
RENEWAL APPLICATION
5/30/06**

4. Landowner: Schlumberger Technology Corporation
1105 West Bender
PO Box 640
Hobbs, New Mexico 88240
505 393 6186

5. A map showing the location of the facility and a plot plan showing the above ground facilities is included as Attachment 1

6. A list of all materials stored or used at the facility are included as Attachment 2

7. Copies of the most recent analytical results for wastewater are included as Attachment 3.

The sources of effluent and waste solids from this facility include:

- A. Truck wash bay wastewater average daily volume is 3000 gallons.
- B. Wastewater from cement testing facility average daily volume is 30 gallons.
- C. Used engine oil is collected for recycling in the truck maintenance shop.
- D. Sludge from truck wash bay consists of mud and soil that is removed from trucks and equipment during the washing process.
- E. Cement residue is generated from washing of cups and other equipment used in the testing of cement samples in the cement testing area.
- F. Used floor sweep is generated in the truck maintenance area in the process of covering and cleaning oil spills on the shop floor.
- G. Domestic wastewater from facility restrooms.
- H. Used tires and vehicle batteries from the truck maintenance shop activities.
- I. Off-spec or contaminated chemicals from the chemical loading and blending process.
- J. Reclaimed cement from the cement loading and blending facility.

8. Liquid and solid waste collection and treatment procedures are as follows:

- A. Truck wash bay water is treated by transferring water through two mud-settling pits to remove silt and other solids. The water then passes through an oil separator to remove oil and other hydrocarbons before wastewater is sent to Hobbs municipal sewer treatment facility.
- B. Mud and sludge for truck wash bay is collected in mud settling pits and then transferred to a 20-yard roll-off bin. It is then analyzed and disposed of at an OCD approved waste disposal facility.
- C. Wastewater from cement testing facility passes through a solids settling trap to remove fines from cleaning equipment used in the testing of cement samples. The water then is sent to Hobbs municipal sewer treatment facility.
- D. The cement residue from the settling trap for the cement testing facility is collected in a settling trap and sent to an OCD approved landfill disposal site.

- E. Used engine oil is collected from the truck shop and stored in above ground steel tanks inside a steel secondary containment. The oil is then pumped into transport tanks for delivery to an approved treatment and recycling company.
- F. Used floor sweep is collected in plastic containers in the truck maintenance shop and then transferred to a roll-off bin to be disposed of at an OCD approved landfill disposal facility.
- G. Domestic wastewater is not collected or treated at this facility. It is discharged to the City of Hobbs wastewater treatment plant.
- H. Used tires and batteries from the maintenance shop are collected and returned to the manufacturer for recycling.
- I. Any off spec or contaminated chemicals are collected in steel or plastic drums and tote tanks, stored in a covered chemical storage area with secondary containment, and sent to an EPA approved disposal site to be recycled or disposed of in accordance with EPA regulations.
- J. Reclaimed cement is stored in an above ground steel cement storage tank, and sent to an OCD approved disposal site and recycled as a soil stabilizing material in landfill operations.

9. No additions or modifications are currently being planned for the Hobbs facility relating to any collection/treatment/disposal systems.

10. A routine inspection form is included as Attachment 4.

11. A spill contingency and clean-up plan is included in the local SPCC plan, specifically in section 4.0. This section, including reporting instructions are included as Attachment 5.

12. Geological/hydrological characteristics of the facility are as follows:

The geologic formation present at ground surface is the Tertiary Ogallala Formation, which consists of unconsolidated sands, silts, clays, and gravel, capped by caliche (Barnes 1976). The caliche cap at the site is approximately 25 to 35 feet thick and quite variable in thickness and composition. Beneath the caliche cap is orange-brown or yellow-brown fine-grained sand and sandstone with minor amounts of gravel. The thickness of the Ogallala is approximately 100 feet in the area (Barnes 1976). The Ogallala is underlain by red siltstones and claystones of Mesozoic age, referred to locally as the "red beds" (Richey et al. 1985).

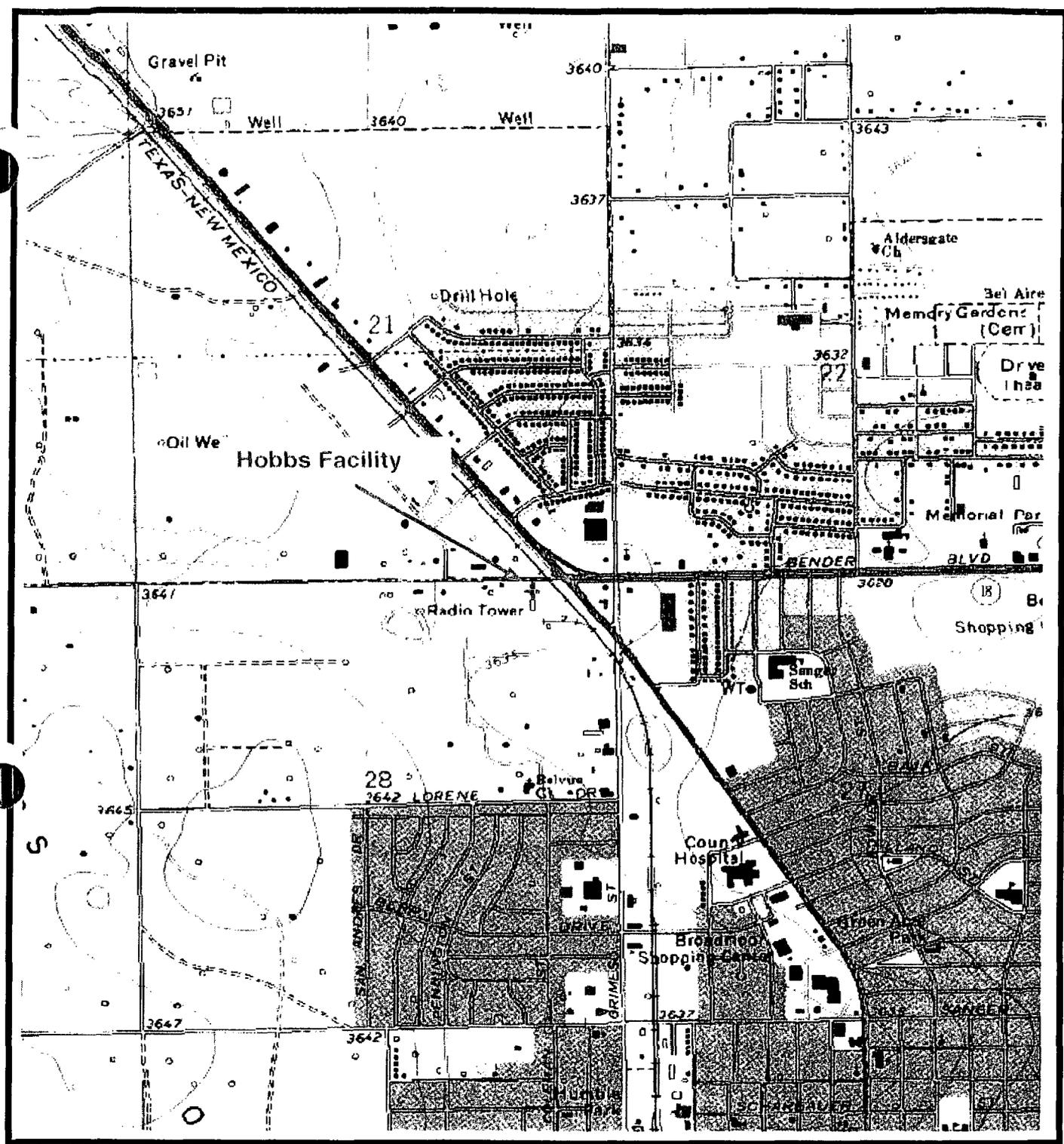
The Ogallala Formation is the major aquifer in the Southern High Plains region and is pumped extensively for municipal, industrial, and agricultural purposes. Recharge to the Ogallala is primarily from infiltration of precipitation. Infiltration rates are locally variable, with highs occurring in areas such as the sand dune fields east of Hobbs and lows occurring where thick, extensive caliche layers are present.

Depth-to-water in the region has gradually increased over the past years because of excessive pumping. The water table at the site is approximately 80 feet below ground surface. The hydraulic gradient in the Ogallala aquifer near the site is approximately 15 feet per mile in a southeasterly direction (Cronin, 1969).

Ground water from the Ogallala is generally suitable for all purposes. Historical records indicate that total dissolved solids typically range from approximately 300 to 700 milligrams per liter (mg/L), chloride from 30 to 170 mg/L, and sulfate from 60 to 160 mg/L (Ash 1963).

13. There are no current plans to close this facility. If it were to be closed it would be closed in accordance with the Environmental Exit Survey Checklist enclosed as Attachment 6.

Attachment 1



North

Figure 1

Topographic Map

Schlumberger

Hobbs, New Mexico

Scale:
1" ~ 1600 feet

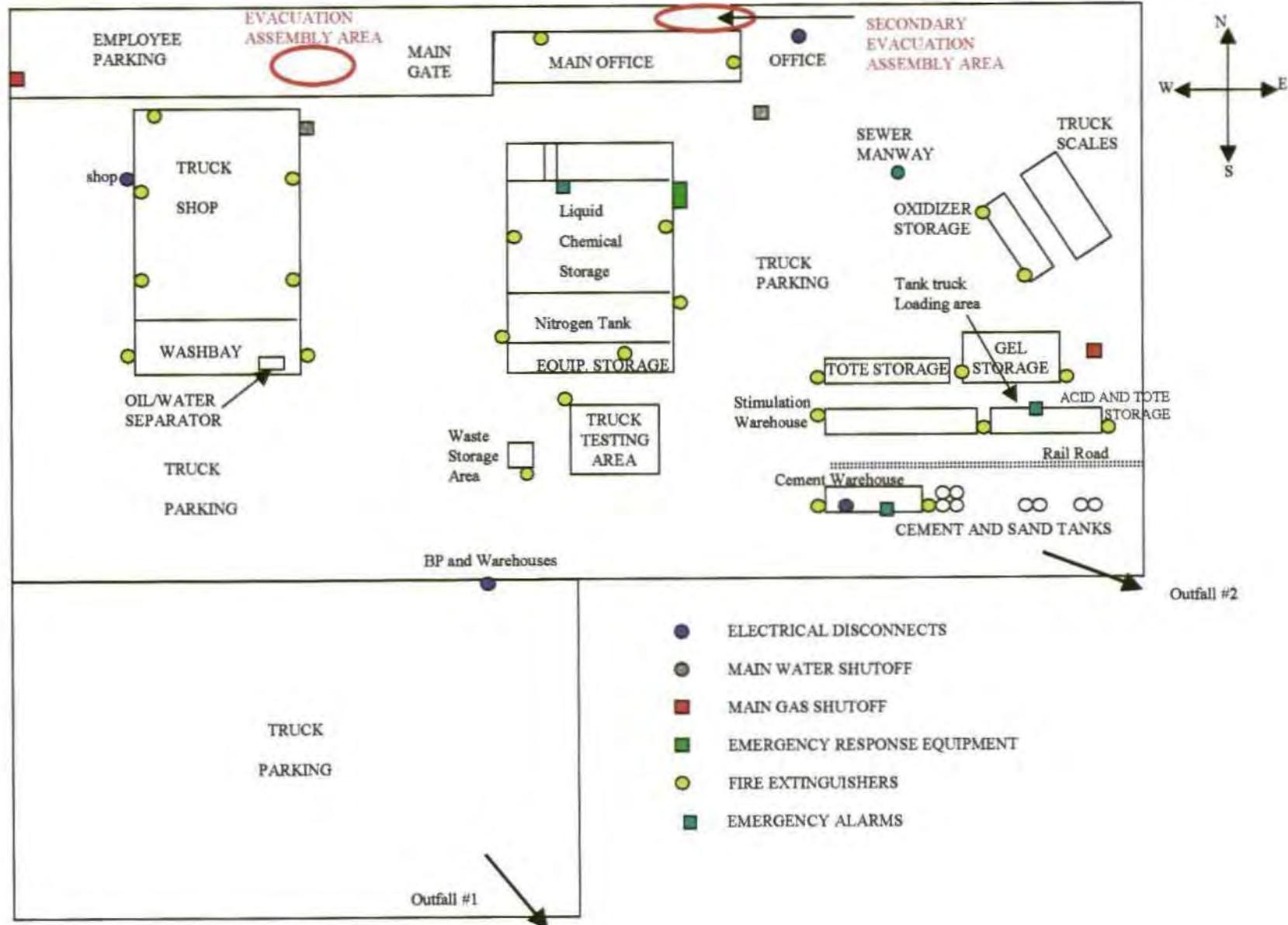
Map Source: **topozone**
Copyright 1993-2003 Maps a la carte, Inc

Project No:
05862-014



Schlumberger Well Services Hobbs, NM

Bender Avenue



Attachment 2

CHEMICAL INVENTORY-ARTESIA SHOP

CHEMICAL	PRODUCT NAME	MANUFACTURER
OIL	15/40 MOTOR OIL	SHELL
OIL	C3	SHELL
OIL	80/90	SHELL
OIL	HYDRAULIC 46	SHELL
OIL	ROCK DRILL	SHELL
PENETRATING OIL	45NC	ZEP
OXYGEN	OXYGEN	AIRGAS
ACETYLENE	ACETYLENE	AIRGAS
PARTS CLEANING SOLVENT	150	SAFETY KLEEN
AIR FRESHNER		BLAIN
DISINFECTANT CLEANER	COMET	BLAIN
FLOOR CLEANER	EMERALD	BLAIN
TOILET BOWL CLEANER	VIM	BLAIN
UPHOLSTERY CLEANER	ARMOR COAT	BLAIN
CLEANER	VINEGAR	BLAIN
GLASS CLEANER	SPRAYWAY	BLAIN
SOAP	DIAL ANTIBACTERIAL SOAP	BLAIN

Plant Inventory Standard Cost Analysis

Company: STCD
 Date: 05/31/2006
 Currency in: USD

Material	Storage Location	Base UOM	Base_QTY	Prior_Period Mov_Av_Price	Base_UOM Mov_Av_Price	Issue UOM	Issue_QTY	Issue_UOM Mov_Av_Price	Value	Material Description	Max Stock Quantity
										Inhibitor B034	0.000
										Antisludge Agent, SMCMM S-3000 B53	0.000
										Breaker, LT B58	0.000
										Solvent, Mutual B60	0.000
										Bicide B69	0.000
										Resin Activator B80	0.000
										Corrosion Inhibitor B094	0.000
										Methanol B111	0.000
										Foaming Agent B124	0.000
										Slurry Gel B142	0.000
										Friction Reducer B145	0.000
										Retarder B155	0.000
										FLK-S B159	0.000
										Low-Temperature Solid Fluid Loss Additiv	0.000
										High Pressure Extender B187	0.000
										High Yield Gear Slurry B221B	0.000
										INDCARB (ts) 150 Bridging Agent C129	0.000
										Retarder D13	0.000
										Bentonite Extender D20	0.000
										Gilsonite Extender D24	0.000
										Cellophane Flakes D29	0.000
										Barite D31	0.000

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Schlumberger

Plant Inventory Standard Cost Analysis

Company: SFCD
 Date: 05/31/2006
 Currency in: USD

Date: 05/31/2006 - 09:32
 Page: 0001

Material Description	Max Stock Quantity
Shoe, Guide Saw Tooth-8rnd 8 5/8	0.000
Shoe, Guide Saw Tooth-8rnd 9 5/8	0.000
Shoe, Guide Saw Tooth-8rnd 13 3/8	0.000
Shoe, Float Sure-Seal 8rd 4 1/2	0.000
Shoe, Float Sure-Seal 8rd 5 1/2	0.000
Shoe, Float Sure-Seal 8rd 8 5/8	0.000
Collar, Float Sure Seal 8rd	0.000
Collar, Float Sure Seal 8rd	0.000
Collar, Float Sure Seal 8rd	0.000
Centraliser, Rigid 8-5/8 In	0.000
Xylene	0.000
Inhibitor, Corrosion A166	0.000
Inhibitor Aid A179	0.000
Inhibitor, Corrosion A186	0.000
Inhibitor Aid A201	0.000
Inhibitor, COMNAM 333, A205	0.000
Scavenger, Hydrogen Sulfide A255	0.000
Corrosion Inhibitor	0.000
Inhibitor, Corrosion A262	0.000
Corrosion Inhibitor A264	0.000
Inhibitor, High Temp Corrosion A270	0.000
Organic Acid Inhibitor A272	0.000
Expanding Cement Additive B28	0.000

SUBMITTED

Company: SFCD
 Date: 05/31/2006
 Currency in: USD

Material	Storage Location	Base UOM	Base_QTY	Prior_Period	Base_UOM	Issue UOM	Issue_QTY	Issue_UOM	Value	Material Description	Max Stock
				Mov_Av_Price	Base_UOM	Issue UOM	Issue_QTY	Issue_UOM			Quantity
										Hardener, Low Temperature D140	0.000
										Antifoam Agent D144	0.000
										Dispersant, Low Temp Liquid D145A	0.000
										MUDFOUR (R) 2F Fresh Water D147	0.000
										MUDFOUR (R) XL Laminar D149	0.000
										Calcium Carbonate D151	0.000
										Antisettling Agent D153	0.000
										Extender, Low Temperature D154	0.000
										Extender, Liquid Low Temp D155	0.000
										Fluid Loss Additive, Low Temp D156	0.000
										Cement, Microfine D163	0.000
										ComPLOS (TM) Stabilizer D164	0.000
										ComSD (tm) Weighting Agent D165	0.000
										ComD* Weighting Agent	0.000
										UniPLAC-S D167	0.000
										SqueezeDRYER Additive D173	0.000
										Expanding Cement Additive D174	0.000
										Antifoam Agent D175	0.000
										ComPLAS Geo D178	0.000
										MUDFOUR* II Spacer D182	0.000
										Synthetic Solid Cement Retarder D198	0.000
										GASBLOC LF, D500	0.000

Date: 05/31/2006 - 09:32
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Plant Inventory Standard Cost Analysis

Company: STCD

Date: 05/31/2006

Currency in: USD

Material	Storage Location	Base UCM	Base_UCM QTY_on_hand	Prior_Period Mov_Av_Price	Base_UCM Mov_Av_Price	Issue UCM	Issue_QTY on_hand	Issue_UCM Mov_Av_Price	Value	Material Description	Max Stock Quantity
										GRSELOK (tm) Additive D600	0.000
										GRSELOK* Gas Migration Control Add D600G	0.000
										SALTDOM (tm) II D604AM	0.000
										Gel Suppressing Agent D606	0.000
										Retarder D800	0.000
										Retarder, MID Temp Liquid D801	0.000
										Cement, Class A D901	0.000
										Cement, Class C D903	0.000
										Cement, Class B D909	0.000
										Isopropyl Alcohol F3	0.000
										Foaming Agent F52	0.000
										Foaming Agent F52.1	0.000
										Surfactant, HSEFLO (tm) F75M	0.000
										Surfactant, HSEFLO (tm) F78	0.000
										Coupling Agent F99	0.000
										Surfactant, HSEFLO (tm) F103	0.000
										Foaming Agent F104	0.000
										Multifunctional Surfactant F105	0.000
										HSEFLO* Surfactant F108	0.000
										Acid, Hydrochloric 36% H36	0.000
										Diverting Agent, FLEAFRAC J66	0.000
										Salt, 100 Mesh J668	0.000
										Fluid Loss Additive, J84	0.000

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Company: STCD
 Date: 05/31/2006
 Currency in: USD

Material	Storage	Base	Base	Base	Prior	Base	Issue	Issue	Value	Material	Max
	Location	UOM	UOM	UOM	Period	UOM	UOM	QTY		Description	Stock
					Price	Price	on				Quantity
					Price	Price	hand				
										Friction Reducing Agent J120	0.000
										Breaker, Enzyme J134	0.000
										Breaker, Enzyme J134L	0.000
										Gelling Agent J164	0.000
										Plugging Agent, Low Temp J170	0.000
										Breaker J218	0.000
										Diverting Agent, FIXAFBAC J227	0.000
										Diverting Agent J237A	0.000
										Friction Reducer, Oil J257	0.000
										Breaker J285	0.000
										Breaker, Low Temp J297	0.000
										Friction Reducing Agent, Water J313	0.000
										Breaker Aid, Liquid J318	0.000
										Gelling Agent, Water J347	0.000
										Crosslinker J352	0.000
										Stabilizer, Hi Temp Gel J353	0.000
										Diverter J423	0.000
										Gelling Agent, Water J424	0.000
										Gelling Agent, Acid J429	0.000
										Fluid Loss Additive, Liquid J451	0.000
										Gelling Agent, Oil J452	0.000
										Gelling Agent, Slurriable HPG J456	0.000

Schlumberger

Company: STCD
 Date: 05/31/2006
 Currency in: USD

Material	Storage Base	Base UOM	Prior_Period	Base_UOM	Issue	Issue_QTY	Issue_UOM	Value	Material	Max Stock
	Location UOM	QTY_on_Hand	Mov_Av_Price	Mov_Av_Price	UOM	on_hand	Mov_Av_Price		Description	Quantity
									Gelling Agent, Slurriable Gear J457	0.000
									Buffering Agent, J464	0.000
									Activator, Slurriable Crosslink J465	0.000
									Breaker Aid J466	0.000
									Iron Control Agent, LCA J471A	0.000
									Fluid Loss Activator, LCA J472	0.000
									Coalbed Methane Additive J473	0.000
									Breaker, HB-CLEAN (tm) J475	0.000
									Fluid Loss Additive, Slurr/Degrad J478	0.000
									Breaker, HB-CLEAN (tm) LF Encap J479	0.000
									Breaker J481	0.000
									Gelling Agent, CMHPG J486	0.000
									Gelling Agent, CMHPG J486M	0.000
									Breaker, HB-CLEAN (tm) BT J490	0.000
									Gelling Agent, Water Control J491	0.000
									Crosslinker J492	0.000
									PROPERT (tm) II Additive J501	0.000
									Crosslinker J506	0.000
									ClearFRACwinterized J508W	0.000
									Stabilizer/Delay Agent J511	0.000
									Crosslinker J513	0.000
									OilSHEKOR J529	0.000
									Borate Crosslinker J532	0.000

Schlumberger

Company: STCD
 Date: 05/31/2006
 Currency in: USD

Material	Storage	Base	Base	Prior	Base	Issue	Issue	Issue	Value	Material	Max
	Location	UCM	QTY on Hand	Per	UCM	UCM	QTY	UCM		Description	Stock
				Price			on hand				Quantity
										ClearFRAC HF J533	0.000
										Breaker J550	0.000
										ClearFRAC LF J551	0.000
										ClearFRAC Encapsulated Breaker J556	0.000
										VDA J557	0.000
										J564 Environmental Oxid Slurry	0.000
										ClearFRAC HF J566	0.000
										ClearFRAC CO2 J575	0.000
										Crosslinker J601	0.000
										PH Control Agent J602L	0.000
										Breaker J603	0.000
										Slurry PBG Polymer Preblended J677-PB	0.000
										Methanol K46	0.000
										Catalyst K187	0.000
										Resin Solution K230B	0.000
										Thread Locking Compound Kit K232	0.000
										Curing Agent K235B	0.000
										SEALOCK V Service ,588L P K800P	0.000
										Iron Stabilizing Agent L1	0.000
										Crosslinker L10	0.000
										Acid, Hydroxyacetic L22L	0.000
										Inhibitor, GYPSAM Scale L47	0.000

Submitted

Plant Inventory Standard Cost Analysis

Company: STCD
 Date: 05/31/2006
 Currency in: USD

Material	Storage	Base	Base_UCM	Prior_Period	Base_UCM	Issue	Issue_QTY	Issue_UCM	Value	Material	Max Stock
	Location	UCM	QTY_on_Hand	Mov_Av_Price	Mov_Av_Price	UCM	on_Hand	Mov_Av_Price		Description	Quantity
										Sand 12-20 Mesh S14	0.000
										Sand 16-30 Mesh S18	0.000
										Sand 16-30 Mesh S18, Out of Area	0.000
										Sand 20-40 Mesh S20	0.000
										Sand 20-40 Mesh S20, Sacked	0.000
										Sand 20-40 Mesh S20, Out of Area	0.000
										Sand 8-16 Mesh S36	0.000
										Liquid Calcium Chloride 38% S53	0.000
										Froppant, 16/30 Resin Curable S74	0.000
										Froppant, 20/40 Resin Curable S74	0.000
										Froppant, OPTIFROP @ 1630 Mesh	0.000
										Froppant, OPTIFROP @ 2040 Mesh	0.000
										Froppant, Curable-Low Resin 12/20 S74L	0.000
										Froppant, Curable-Low Resin 16/30 S74L	0.000
										Froppant, Curable-Low Resin 20/40 S74L	0.000
										Froppant, Super LC @ 1220 Mesh	0.000
										Froppant, Super LC @ 1630 Mesh	0.000
										Froppant, Super LC @ 2040 Mesh	0.000
										Froppant, Super TF @ 1630 Mesh	0.000
										Froppant, CR4000 @ 1220 Mesh	0.000
										Froppant, CR4000 @ 1630 Mesh	0.000
										Froppant, CR4000 @ 2040 Mesh	0.000

Date: 05/31/2006 - 09:32
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Company: STCD
 Date: 05/31/2006
 Currency in: USD

Material	Storage Base	Base UOM	Prior_Period	Base_UOM	Issue	Issue_QTY	Issue_UOM	Value	Material	Max Stock
	Location	UOM	Qty. on Hand	Mov_Av_Price	UOM	on hand	Mov_Av_Price		Description	Quantity
									Inhibitor, GYPRAM Scale L49	0.000
									Clay Stabiliser L55	0.000
									Iron Stabiliser L58	0.000
									Reducing Agent L63	0.000
									Clay Stabiliser L64	0.000
									Scale Inhibitor L065	0.000
									Stabilising Agent L401	0.000
									Soda Ash M3	0.000
									Activator M7	0.000
									Protectosone Additive M24	0.000
									Silicate Control Additive M388	0.000
									Antifoam Agent M45	0.000
									Formation Cleaning Solution M91C	0.000
									Potassium Chloride M117	0.000
									Microbiocide M275	0.000
									Bactericide M290	0.000
									Hydrogen Sulfide Scavenger M295	0.000
									Nitrogen M2	0.000
									Solvent, PARAFIN (R) F121	0.000
									Inhibitor, Liquid Paraffin F124	0.000
									Calcium Chloride 77% S1	0.000
									Calcium Chloride 95% Spike S2	0.000
									Sand 12-20 Mesh S14	0.000

Schmidberger

Plant Inventory Standard Cost Analysis

Company: STCD
 Date: 05/31/2006
 Currency in: USD

Material	Storage Location	Base UOM	Base UOM QTY on Hand	Prior_Period Mov_Av_Price	Base_UOM Mov_Av_Price	Issue UOM	Issue_QTY on_hand	Issue_UOM Mov_Av_Price	Value	Material Description	Max Stock Quantity
										Sand, 30-50 Mesh S79	0.000
										Proppant, Precured Resin 12/20 S93	0.000
										Proppant, Precured Resin 20/40 S93	0.000
										Proppant, Black Plus @ 2040 Mesh	0.000
										Proppant, Black Plus @ 4070 Mesh	0.000
										Proppant, Tempered DC @ 2040 Mesh	0.000
										Proppant, Med Density ISP 20/40 S95	0.000
										Proppant, Med Density ISP 30/60 S95	0.000
										Sand 100 Mesh S100	0.000
										Sand 100 Mesh S100, Sacked	0.000
										Proppant, Low Density ISP 16/20 S105	0.000
										Proppant, Low Density ISP 20/40 S105	0.000
										Proppant, High Strength Resin 16/30 S108	0.000
										Proppant, High Strength Resin 20/40 S108	0.000
										Proppant, Super DC @ 1630 Mesh	0.000
										Proppant, Super DC @ 2040 Mesh	0.000
										Liquid Curing Agent S123	0.000
										Proppant, Precured Low Resin 16/30 S128	0.000
										Proppant, Precured Low Resin 20/40 S128	0.000
										Proppant, PR6000 @ 1630 Mesh	0.000
										Proppant, PR6000 @ 2040 Mesh	0.000
										Proppant, Tempered LC @ 1630 Mesh	0.000
										Proppant, Tempered LC @ 2040 Mesh	0.000

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Plant Inventory Standard Cost Analysis

Company: STCD
 Date: 05/31/2006
 Currency in: USD

Date: 05/31/2006 - 09:32
 Page: 0001

Material	Storage Location	Base UOM	Base_QTY	Prior_Period Mov_Av_Price	Base_UOM Mov_Av_Price	Issue UOM	Issue_QTY	Issue_UOM Mov_Av_Price	Value	Material Description	Max Stock Quantity
										VerseProp® Low Density ISP S129	0.000
										Tempered HSE 20/40 S134	0.000
										Proppant, Ceramic 20/40 S138	0.000
										Proppant, High Strength 20/40 S140	0.000
										Proppant, High Strength 30/50 S140	0.000
										Proppant, Precured Resin-Cont 16/30 S142	0.000
										EconoFlow®	0.000
										Proppant, SB Excel @ 1630 Mesh	0.000
										Proppant, SB Excel @ 2040 Mesh	0.000
										MagmaProp®	0.000
										Cerama® I G	0.000
										Cerama® E	0.000
										Liquid Wax Dressing T130	0.000
										Gelling Agent Activator U28	0.000
										Chelating Agent U42	0.000
										Chelating Agent U44	0.000
										Diesel Oil U51	0.000
										PREVLO HB Miscible Solvent U66	0.000
										Dispersing Agent	0.000
										Emulsifier U78	0.000
										Emulsifying Agent U80	0.000
										Paraffin Dispersant U82	0.000

Submitted 3/27

Company: STCD
Date: 05/31/2006
Currency in: USD

Serial	Storage Location	Base_QTY	Base_Unit	Prior_Period	Base_Unit	Issue_Unit	Issue_QTY	Issue_Unit	Value	Material Description	Max Stock Quantity
										Solvent, Mutual U100	0.000
										Chelating Agent U106	0.000
										Emulsion/Sludge Preventer W35	0.000
										Non-Emulsifying Agent W33	0.000
										Non-Emulsifying Agent W34	0.000
										Surfactant W59	0.000
										Sludge and Emulsion Preventer W60	0.000
										Cement Retarder XB114A	0.000
										Gelling Agent, WC Dev XB67804	0.000
										XB852 Acid Diverting Agent For High Water	0.000
										Dev Gelling Agent XB905	0.000
										Developmental Breaker XB941	0.000
										Dev Gelling Agent XB983	0.000
										Dev Cement Retarder XB987	0.000
										Intensifier Y1	0.000

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Attachment 3



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 300
 ARTESIA, NM 88210
 FAX TO:

Receiving Date: 11/08/05
 Reporting Date: 11/15/05
 Project Number: NOT GIVEN
 Project Name: Q4 WATER ANALYSIS
 Project Location: HOBBS YARD

Sampling Date: 11/08/05
 Sample Type: WASTEWATER
 Sample Condition: COOL AND INTACT
 Sample Received By: NF
 Analyzed By: HM

RCRA METALS

LAB NUMBER SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
----------------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	11/11/05	11/14/05	11/14/05	11/14/05	11/14/05	11/14/05	11/15/05	11/11/05
H10393-1 WASTEWATER	<0.1	<0.1	<1	<0.1	<0.1	0.448	<0.02	<0.1
Quality Control	0.048	2.822	48.49	3.005	2.700	3.788	0.0052	0.051
True Value QC	0.050	3.000	50.00	3.000	3.000	4.000	0.0060	0.050
% Recovery	96	94.1	97.0	100	90.0	94.7	86.5	102
Relative Percent Difference	4.3	0.4	1.1	0.4	0.9	3.6	13.5	2.3

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740

Hope S. Moore
 Chemist

11-16-05
 Date

H10393 4.3.2

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88211
FAX TO:

Receiving Date: 11/08/05
Reporting Date: 11/16/05
Project Number: NOT GIVEN
Project Name: Q4 WATER ANALYSIS
Project Location: HOBBS YARD

Sampling Date: 11/08/05
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: AH/BC

LAB NO.	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		11/14/05	11/14/05	11/11/05	11/16/05
H10393-1	WASTEWATER	Not reactive	Not reactive	7.21	>140
Quality Control		NR	NR	6.98	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	99.7	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261


Chemist


Date



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 SCHLUMBERGER
 ATTN: DARWIN THOMPSON
 P.O. BOX 300
 ARTESIA, NM 88211
 FAX TO:

Receiving Date: 11/08/05
 Reporting Date: 11/16/05
 Project Number: NOT GIVEN
 Project Name: Q4 WATER ANALYSIS
 Project Location: HOBBS YARD

Sampling Date: 11/08/05
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: NF
 Analyzed By: AH

LAB NUMBER SAMPLE ID	COD (mg/L)	FOG (mg/L)	TSS (mg/L)
ANALYSIS DATE	11/14/05	11/11/05	11/11/05
H10393-1 WASTEWATER	317	118	7.00
Quality Control	22.09	99.7	NR
True Value QC	20.00	100	NR
% Recovery	110	99.7	NR
Relative Percent Difference	1.8	1.4	NR
METHODS: EPA 600/4-79-020	410.4	413.1	160.2

Amy Hill
 Chemist

11/16/05
 Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Attachment 4

Schlumberger

WEEKLY ENVIRONMENTAL INSPECTION FORM

	YES	NO	NA
1. Yard and parking area free of spills?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Waste/product storage containers and tanks in good condition, free of deterioration, properly labeled, and dated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Drum storage area free of spills or leaks and properly sealed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Slurry gel plant free of spills or leaks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Acid dock area free of spills and leaks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Cement plant free of spills and dust collector working properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Stimulation warehouse free of spills?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Fuel island clean and free of spills?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Shop oil storage area free of spills and leaks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Is Safety-Kleen confined to the station?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Paint and thinner properly stored?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Batteries in proper storage area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Shop area free of spills?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Are all hazardous waste containers closed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Are all hazardous waste containers in good condition with no signs of deterioration?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Are all hazardous waste containers appropriately labeled, including an indication of the start date for waste accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Are all hazardous waste containers under the generator status storage requirement for storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the hazardous waste containers free of spills and leaks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Is Emergency Response Equipment in working order and properly stocked?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Aboveground valves, piping, and appurtenances in good condition? (check flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Are all areas on site free of soil erosion indicators?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Does the integrity of all small bulk oil storage containers (i.e.: drums and totes) appear to be uncompromised?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Were all of the following small bulk oil storage containers (i.e.: drums and totes) elevated from the ground surface and inspected from all sides?			
Approximately 50 300-gallon totes stored in area A7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approximately 50 300-gallon totes stored in area A8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Liquid level sensing devices operating properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. Facility drainage and effluent discharge points in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26. Treatment system operating properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27. Secondary containment and oil spill retention systems in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28. Adequate aisle space available? (must be at least 3')	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ANY "NO" ANSWERS REQUIRE CORRECTIVE ACTION. DESCRIBE PROPOSED ACTIONS BELOW AND FOLLOW-UP WITH AN INDICATION OF THE DATE WHEN IMPLEMENTED. (attach additional sheets as necessary):

Inspector: _____ Date: _____

Retain completed forms in Attachment 14 of this Plan.

Attachment 5

4.0 EMERGENCY RESPONSE PROCEDURES (COUNTERMEASURES)

4.1 Objectives

There are three primary objectives during a spill event. They are:

- (1) Stop the source of spill;
- (2) Contain the spill; and
- (3) Initiate remedial action.

The order of priority for the above objectives will vary depending on the events and at what stage the leak is detected. For oil tank spills, which have breached the containment system, containment activities should commence first. For spills associated with fires, remedial action should commence first. Consideration should be given to the fact that water used in fire fighting may cause an overflow of the spill containment systems. The general emergency response plan for spills of oil and/or hazardous substances consists of the following four steps:

- (1) The spill must be reported immediately to the On Site Emergency Coordinator (refer to the On Site Emergency Call List in Attachment 5).
- (2) The Emergency Coordinator will determine which outside assistance organizations to contact, if any, and make the necessary arrangements (refer to the Off Site Emergency Notification Phone List in Attachment 7) to stop the leak, to contain the leak, and initiate the form of remedial action necessary.
- (3) The Emergency Coordinator in conjunction with a representative from the Schlumberger Emergency Response System (phone #: 281-595-3518) will determine which governmental agencies are required to be notified and ensure that these notifications are made in a timely manner.
- (4) The Emergency Coordinator will ensure that all non-Schlumberger communications (i.e., news media) follow company policy.

The intent of this Plan is to provide the information necessary to respond properly to a spill event. Generally, this facility could have four types of spill events.

- (1) Contained Spill – spill inside diked areas and all material is contained.
- (2) Controlled Small Spill – spill outside diked areas that is small enough not to spread offsite.
- (3) Uncontrolled Spill – a spill large enough to exceed diked capacity (due to weather or fire fighting water make-up) or the spill is outside of diked area, and the spill has significant potential to go offsite.
- (4) Reportable Spill – the spill enters navigable waters or exceeds the reportable quantity for the material spilled. Refer to section 5.1.4 or the website www.regulations.com.

4.2 Spill Response Equipment

A list of available on site emergency response equipment and the location of each item is provided in Attachment 8. The location of this equipment is also shown on the facility Emergency Evacuation Diagram provided in Attachment 3. Other information that may be useful during an emergency event is provided below.

- There are several hand-held radios available at the facility, which would be useful for communications.
- Outside contractors are available to provide additional response personnel and equipment. A listing of local spill cleanup contractors is provided in Attachment 6.

4.3 Emergency Coordinator's Response

After receiving a report of a spill or other emergency, the Onsite Emergency Coordinator must proceed with the following:

Protect Personnel

- (1) Determine the extent of personal injuries, if any.
- (2) Identify the exact location of spill, leak or other emergency event utilizing appropriate personal protective equipment. If necessary, walk out all process lines, hoses, manifold, piping, and tanks involved in the operation. Identify the leaking appurtenance(s) (e.g., hose, flange, valve, tank, etc.).
- (3) Determine if site evacuation is necessary. If an evacuation is required, it will be announced over the facility's public address (PA) system. The evacuation routes and assembly areas are shown on a map posted on the office bulletin board.
- (4) Shut-off any potential ignition sources.
- (5) Confirm if the event is still occurring and when it was first observed.

Contact Schlumberger/NAM

- (6) Contact the Schlumberger/NAM HSE Emergency Response System and follow the steps presented in Section 5.1 Spill Notification (Attachment 7).

Control the Emergency Event

- (7) Confirm the extent of spill, leak, or emergency and determine the potential for personnel hazard by utilizing product knowledge such as the product information sheet or material safety data sheets (MSDS).
- (8) Determine methods to safely control the event. Minimize the potential discharge by isolating the source of the leak. If necessary, utilize any of the following steps to mitigate the leak:
 - Empty transfer lines;
 - Transfer product from a leaking tank to a sound tank;

Schlumberger

- Isolate transfer lines by valve and/or blind flange;
 - Isolate the ongoing operation in accordance with standard operating procedures to minimize both potential hazards to personnel and damage to equipment;
 - Check for ignition sources (i.e., heaters, open flames, hot work); or
 - Other appropriate actions.
- (9) Verify that spill containment devices are working and/or install new ones as necessary.

Initiate Off-Site Notifications and/or Coordination

- (10) Evaluate whether there are apparent on-site or off-site hazards associated with the event. Contact any off site entities that could be impacted by the spill.
- (11) Contact appropriate outside emergency response contractors if their help is needed (see Attachment 6 for the contact phone numbers).
- (12) Determine present and predicted weather conditions at the facility.
- (13) Ensure that the applicable federal, state, and local emergency response agencies are notified in a timely manner. This will be performed in conjunction with a representative from the Schlumberger/NAM HSE Emergency Response System (see Attachment 7 for the notification phone numbers).
- (14) Determine Schlumberger contact for non-Schlumberger communications, if necessary. Based on the above criteria, the Emergency Coordinator will implement the most appropriate response.

Monitor the Situation

- (15) If facility operations have stopped in response to the emergency situation, monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever appropriate.

Clean-up Spilled Material

- (16) Initiate recovery, removal, decontamination, and reporting procedures, as appropriate.

4.4 Other Considerations

4.4.1 Container Leaks

As stated in Section 3.4.1 of this Plan, leaks and/or equipment malfunctions are promptly reported, repaired, and remediated. In addition, facility personnel must follow the procedures outlined below when a leaking drum or tote are identified:

Drum: If a leaking drum is detected, the contents remaining in the drum will be transferred to a new drum if this can be done safely by properly trained personnel. The empty drum will be put in the empty storage area for disposal or reclamation. If the contents cannot be safely transferred to another drum, then the leaking drum will be placed in a DOT-approved overpack drum for off-site disposal. Any spillage and clean up materials will also be placed into the overpack drum for disposal. A label will be placed on the overpack drum identifying the contents and the original date that it was placed in storage.

Tote: Leaking totes will be handled the same way as leaking drums except if the contents cannot be safely transferred to another drum or tote, then stop the leak, if possible, then contain the area with absorbent material.

4.4.2 Decontamination

Equipment that requires decontamination will be decontaminated by using a high-pressure wash or by another appropriate method such as, but not limited to, a detergent wash. Any wastes generated during decontamination procedures will be collected and disposed of offsite at an authorized facility.

Any equipment that cannot be decontaminated will be disposed of offsite at an authorized facility.

4.4.3 Disposal of Recovered Materials

Materials recovered due to oil and/or hazardous substance discharge cleanup efforts will be managed in an environmentally sound manner. Disposal or recycling of such materials will be conducted in accordance with federal and state requirements as applicable to management of solid waste. Efforts to recycle the recovered material will be made to the extent possible.

4.4.4 Arrangements with Local Authorities

This facility is a CESQG of hazardous waste. As such, this facility is not required to make prior arrangements with local authorities regarding coordination of potential emergency response actions. However, if the facility becomes a SQG or LQG of hazardous waste, the appropriate revisions will be made to this plan to include documentation of the arrangements. Copies of the transmittal letters sent to each of the appropriate local authorities will be included in Attachment 9. Information concerning hazardous substances and waste stored at the site is kept in the Emergency Coordinator's office. This information will be provided to police, firefighters, hospitals and other emergency response personnel as needed.

4.5 Oil Spill Contingency Planning

This section is not applicable to the Hobbs facility.

Attach 5

ON-SITE EMERGENCY CALL LIST

(In order of priority)

SCHLUMBERGER/NAM HSE EMERGENCY RESPONSE SYSTEM: 281-595-3518

(See Attachment 7 for additional off site emergency notification numbers)

Designated Emergency Response Role	Name & Title	Contact Numbers
Primary On Site Emergency Coordinator	Randy Cothren Operations Manager	Work: 505-393-6186 Home: 505-738-8077 Cell: 505-910-2460 Pager: N/A
Secondary On Site Emergency Coordinator	Luis Granados Field Service Manager	Work: 505-393-6186 Home: 505-392-4634 Cell: 505-910-2461 Pager: N/A
1st Alternate On Site Emergency Coordinator	Mike Martin Bulk Plant Supervisor	Work: 505-393-6186 Home: 505-392-2647 Cell: 505-910-2477 Pager: N/A
2nd Alternate Emergency Coordinator	Brad Bounds QHSE Coordinator	Work: 505-393-6186 Home: 505-393-7698 Cell: 505-910-2459 Pager: N/A
Corporate Emergency Coordinator / Media Communications Officer	Kirk Pepper USL QHSE Manager	Work: 281 285 8119 Home: N/A Cell: 504 913 0477 Pager: N/A
Corporate Emergency Coordinator (capable to commit manpower & financial resources)	Kirk Pepper USL QHSE Manager	Work: 281-285-8119 Home: N/A Cell: 504 913 0477 Pager: N/A

Attachment 6

Environmental Exit Survey Checklist

This checklist shall be completed by Schlumberger personnel prior to the disposal, or release of any Schlumberger property (whether leased, owned, or otherwise occupied). It should be completed by persons knowledgeable of environmental aspects and impacts. Once complete, the checklist shall be reviewed by a Schlumberger environmental/legal professional, prior to disposal (sale or release) of the property, prior to contacting external environmental consultants, and prior to initiation of any remediation action.

Will the property be sold, returned to owner, leased to a third-party, or other?

If the property is to be sold, has a buyer been identified? _____

Proposed date of sale/release of property _____

Estimated cost of property or monthly lease payments _____

Has all Schlumberger property (equipment, signs, chemicals, wastes, vehicles, etc.) that is not being sold with the property been removed from the site?

Describe any specific time frames or special needs with regard to the environmental exit survey:

Facility Information

Date of Exit Survey: _____

A. Owner/Occupant of facility/property

Name _____

Address _____

Occupant (if different from Owner):

Name _____

Address _____

Date Current Occupant Took Possession _____

B. Current use of Facility/Property (describe)

Zoning _____

Vacant/Open _____

Other _____

C. Total Acreage of Property _____

No. of Buildings on Property _____

No. of Employees _____

D. Past Use of Facility/Property Prior to current Occupant (describe). Go as far back as possible; add additional pages as necessary.

Commercial _____

Industrial _____

Residential _____

Vacant/Open _____

Other _____

PART I - SITE INSPECTION

1. Grounds Inspection – Describe nature of inspection:

- a) Distressed Vegetation _____ Yes _____ No
Describe:
- b) Soil Staining _____ Yes _____ No
Describe:
- c) Excavation/Filling _____ Yes _____ No
Describe:

2. Raw Materials Used or Stored on Site

- a) Solvents _____ Yes _____ No
- b) Plating Chemicals _____ Yes _____ No
- c) Paints _____ Yes _____ No
- d) Coolants, Lubricants _____ Yes _____ No
- e) Polychlorinated biphenyls _____ Yes _____ No
- f) Fuels and Hydrocarbon Products _____ Yes _____ No
- g) Other (specify) _____ Yes _____ No
- h) Any concerns regarding signs of
improper use or storage _____ Yes _____ No
Describe:
- i) Are floor drains present in storage or use area? _____ Yes _____ No

PART I - (Continued)

3. Drum/Chemical Storage _____ Yes _____ No

Describe the Storage area (size, location on site, containment structures, capacity, etc.).

- a) Is there a concrete storage pad for chemical containers? _____ Yes _____ No
- b) Does the pad have a concrete containment wall or berm? _____ Yes _____ No
- c) Does the pad have a sump? _____ Yes _____ No
- d) Are there floor drains in the storage area?
If yes, where do they drain? _____ Yes _____ No
- e) Is storage area covered with roof? _____ Yes _____ No
- f) Is there any indication of past releases/spills from the storage area? _____ Yes _____ No
- g) Have all chemicals been removed? _____ Yes _____ No

4. Waste Disposal

a) Is there any evidence/knowledge of on-site waste disposal? _____ Yes _____ No

If yes, describe:

- 1. Landfill? _____ Yes _____ No
- 2. Evidence of Filling? _____ Yes _____ No
- 3. Lagoon/Surface impoundment? _____ Yes _____ No
- 4. Ponds/Drainage ditches? _____ Yes _____ No

PART I - (Continued)

5. Waste piles? _____ Yes _____ No
6. Disposal wells? _____ Yes _____ No
7. Incineration? _____ Yes _____ No
8. Construction debris? _____ Yes _____ No
9. Road Oiling? _____ Yes _____ No
10. Other (describe):

5. Hazardous Waste Generation

Have hazardous wastes been generated on site?

_____ Yes _____ No

If Yes, have all wastes been removed from site and properly disposed?

_____ Yes _____ No

6. Air Emissions

Have sources of air emissions been present on site?

_____ Yes _____ No

If Yes, have all air emissions sources been removed from the site or decommissioned?

_____ Yes _____ No

a) No. of process stacks _____

b) Permits? _____ Yes _____ No

c) Permit Violations: _____ Yes _____ No

If Yes describe:

PART I - (Continued)

7. Wastewater Discharge

- a) On-site Treatment Facility? _____ Yes _____ No
(i.e., zero-discharge system, treatment plant)
- b) On-site Pretreatment Facility? _____ Yes _____ No
(i.e., sump, oil/water separator)
- c) On-site Treatment or Pretreatment Facility?
If yes, describe type of system, configuration of separator, etc.
(i.e., capacity, number of compartments, where fluids enter and exit, etc.).
- d) Wastewater discharge (if yes, describe)?
- 1. To sewer? _____ Yes _____ No
 - 2. To storm sewer? _____ Yes _____ No
 - 3. To stream, lake, etc.? _____ Yes _____ No
 - 4. To on-site disposal well(s)? _____ Yes _____ No
 - 5. To septic system or leach field? _____ Yes _____ No
 - 6. To percolation pond? _____ Yes _____ No
 - 7. Other? (describe) _____ Yes _____ No
- e) Septic Tank ? _____ Yes _____ No
If yes, describe (age of tank, volume, septicion, etc.):
- f) Stormwater Discharge (specify)
- 1. To stream, lake, etc.? _____ Yes _____ No
 - 2. To stormwater sewer? _____ Yes _____ No
 - 3. To retention/treatment pond? _____ Yes _____ No
 - 4. Other? _____ Yes _____ No
- g) Have all wastewater facilities (zero discharge, recycle units, sumps, trenches, oil/water separators, septic tanks, etc.), been cleaned and all wastes removed? _____ Yes _____ No

PART I - (Continued)

8. Underground Tanks (past and present) _____ Yes _____ No

Describe:

- a) Number _____; age _____; volume _____
- b) In Service? _____ Yes _____ No
- c) Material of construction _____
- d) Manufacturer (if known) _____
- e) Leak detection devices (monitoring?) _____
- f) Contents _____
- g) Leak tested? _____; Test results? _____

- h) Registered with Regulatory Agency? _____ Yes _____ No
- i) Any spills? _____ Yes _____ No
- j) Removed? _____ Yes _____ No
- If yes, is there a tank removal report available? _____ Yes _____ No

If no, have all tanks been cleaned and tank contents either destined for use or properly disposed? _____ Yes _____ No

9. Above Ground Storage Tanks _____ Yes _____ No

Describe:

- a) If yes, number _____ age _____; volume _____
- b) Material of construction _____
 Manufacturer (if known) _____
 In service? _____ Yes _____ No
- c) Contents _____
- d) Are/were the tanks properly contained? _____ Yes _____ No
 Describe containment: _____
- e) Are there drains in the containment structure? _____ Yes _____ No
 If yes, describe their destinations: _____

- f) Describe condition of tanks: _____
- g) Any spills? _____ Yes _____ No
 If yes, describe: _____

- h) Have all tanks been cleaned and tank contents either destined for use or properly disposed? _____ Yes _____ No
- i) Have above ground tanks been removed from site? _____ Yes _____ No

PART I - (Continued)

10. Parts Cleaning/Degreasing Operation

- a) Type _____
- b) Location _____
- c) Volume _____
- d) Previous type _____
- e) Have all part washer/degreasing operations been decommissioned and wastes properly disposed? _____ Yes _____ No
- f) Have all tanks been cleaned and tank contents either destined for use or properly disposed? _____ Yes _____ No

11. Wells observed on site

Does the facility obtain water from an on-site well? _____ Yes _____ No

If yes, is it:

- a) Private? _____ Yes _____ No
- b) Municipal? _____ Yes _____ No
- c) Other? Describe: _____ Yes _____ No

Are there any groundwater monitoring wells on-site? _____ Yes _ No

If yes, describe: _____

Has well closure been considered? _____ Yes _____ No

12. Site drainage

- a) General direction of drainage:
- b) Proximity of drainage to:
 - Creeks:
 - Lakes/Ponds:

Are there any concerns that site drainage has contributed to pollution of the site or any surrounding area? _____ Yes _____ No

If yes, describe:

13. Paved Areas

- a) Pavement type: _____
- b) Approximate % of site covered: _____

14. Soil/Geologic Conditions

- a) Describe surface soils
- b) Describe shallow subsurface conditions (i.e., clay layers, water level, etc.)

PART I - (Continued)

15. Asbestos

a) Were the facilities on the property constructed prior to 1979?
 Yes No Unknown N/A

b) Has a formal, documented asbestos survey of the facilities been conducted?
 Yes No Unknown N/A

If yes, did the survey report conclude that the buildings are free of asbestos-containing materials?

Yes No Unknown N/A

c) Does a walk-through of the property reveal any obvious evidence of insulation, fire proofing, or building materials that may contain asbestos that appear to be friable, flaking, damaged or broken?

See referenced report for the following information:

	Yes	No	Unknown	N/A
Pipe insulation	_____	_____	_____	_____
Duct insulation	_____	_____	_____	_____
Boiler insulation	_____	_____	_____	_____
Floor/Ceiling tiles	_____	_____	_____	_____
Sprayed-on ceiling	_____	_____	_____	_____
Stucco, plaster, fiberboard/ wall finishes	_____	_____	_____	_____
Roofing materials	_____	_____	_____	_____
Comments _____				

16. Radon

a) Have any radon tests been performed at the property?
 Yes No Unknown N/A

If yes, describe results:

b) If elevated radon levels have been discovered at the property, have ventilation systems or similar remedial measures been implemented?

Yes No Unknown N/A

Describe: _____

PART I - (Continued)

17. Indoor Pollution

- a) Does the facility appear to be free of any obvious sources of air emissions that have chemical odors, fumes, or mists?

Yes No Unknown N/A

18. Polychlorinated Biphenyls (PCBs)

- a) Does the facility contain any equipment such as transformers or capacitors?

Yes No Unknown N/A

- b) Has the equipment been checked for PCB content?

Yes No Unknown N/A

If yes, by whom, when? Are there documented results?

- c) If PCB-containing electrical equipment is present at the property, is it marked with PCB identification labels?

Yes No Unknown N/A

- d) If PCB-containing electrical equipment is present at the property, is there evidence of leaks or spills on the ground adjacent to the equipment?

Yes No Unknown N/A

Comments _____

PART II – SURROUNDING AREA

1. Surrounding Land Uses

- a) (North)
- b) (South)
- c) (East)
- d) (West)

2. Potential sources of concern (air emissions, site drainage, groundwater contamination, etc.)

- a) (North)
- b) (South)
- c) (East)
- d) (West)

3. Walk property boundaries looking for signs of possible source of contamination from surrounding property.

- a) Past or present excavations.
- b) Equipment cleaning stations:
- c) Rubble piles:
- d) Inhibited plant growth:
- e) Waste or chemical storage areas:
- f) Underground or above ground storage tanks:

PART II - (Continued)

4. Describe general direction of surface drainage for area. (Sketch)

PART III - REGULATORY REVIEW

1. Are there any notices of violations or similar claims from any regulatory agencies?
2. Are there any pending legal actions related to environmental matters?
3. Are there any outstanding complaints (from citizens groups, residences, etc.)?

PART IV - ADDITIONAL DOCUMENTATION

1. Attach site diagram. Include buildings, chemical storage, waste storage, process and disposal areas, outfalls, signs of contamination, etc.
2. Attach current and past aerial photographs (where available) documenting past uses.
3. Include photographs or video documenting present conditions of facility.

PART V - CONCLUDING REMARKS

(Please include any concluding remarks or additional information here)

Environmental Oversight, Inc.

March 22, 2002

RECEIVED

MAR 25 2002

Environmental Bureau
Oil Conservation Division

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

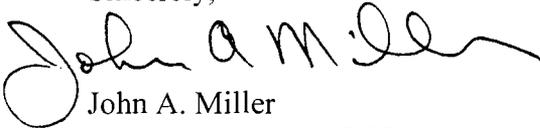
GW-073

RE: 2001 Annual Report for the Schlumberger Oilfield Services (Dowell) Facility in Hobbs,
New Mexico

Dear Mr. Ford:

On behalf of Schlumberger Oilfield Services (Dowell), enclosed are two copies of the 2000 Annual Report for the facility in Hobbs, New Mexico. The results of the fourth quarter ground-water monitoring event for 2001 is included in the annual report. If you have any questions concerning the results please feel free to contact me at (281) 285-8498.

Sincerely,



John A. Miller
C/O Schlumberger Oilfield Services
200 Gillingham Lane, MD-7
Sugar Land, TX 77478

JM:

cc: Western Water Consultants, Inc.

14019 S.W. Freeway, Suite 301, PMB187
Sugar Land, Texas 77478
281-285-8498
jmill11@slb.com

Environmental Oversight, Inc.

March 22, 2002

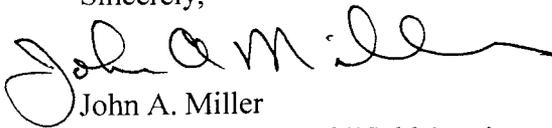
Mr. Jack Ford
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

RE: 2001 Annual Report for the Schlumberger Oilfield Services (Dowell) Facility, Artesia,
New Mexico

Dear Mr. Ford:

Submitted on behalf of Schlumberger Oilfield Services (Dowell) are (2) copies of the 2001 Annual Report for the facility in Artesia, New Mexico. An electronic version will be provided via e-mail. If you have any questions concerning the report please feel free to contact me at (281) 285 - 8498.

Sincerely,



John A. Miller
C/O Schlumberger Oilfield Services
200 Gillingham Lane, MD-7
Sugar Land, TX 77478

JM:

Enclosures

cc: WWC - Laramie

14019 S.W. Freeway, Suite 301, PMB187
Sugar Land, Texas 77478
281-285-8498
jmiller11@slb.com

Environmental Oversight, Inc.

March 22, 2002

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

RECEIVED

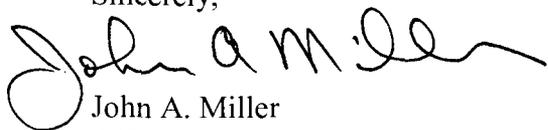
MAR 25 2002
Environmental Bureau
Oil Conservation Division

RE: 2001 Annual Report for the Schlumberger Oilfield Services (Dowell) Facility in Hobbs,
New Mexico

Dear Mr. Ford:

On behalf of Schlumberger Oilfield Services (Dowell), enclosed are two copies of the 2000 Annual Report for the facility in Hobbs, New Mexico. The results of the fourth quarter ground-water monitoring event for 2001 is included in the annual report. If you have any questions concerning the results please feel free to contact me at (281) 285-8498.

Sincerely,



John A. Miller
C/O Schlumberger Oilfield Services
200 Gillingham Lane, MD-7
Sugar Land, TX 77478

JM:

cc: Western Water Consultants, Inc.

14019 S.W. Freeway, Suite 301, PMB187
Sugar Land, Texas 77478
281-285-8498
jmiller11@slb.com

Environmental Oversight, Inc.

April 20, 2001

Mr. Jack Ford
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

710-073

RE: First Quarter Monitoring Results - 2001
Schlumberger Oilfield Services Facility – Hobbs, New Mexico

Dear Mr. Ford:

Enclosed are two copies of the first quarter environmental monitoring results for the Schlumberger Oilfield Services (Dowell) facility in Hobbs, New Mexico.

Western Water Consultants, Inc. (WWC) conducted quarterly monitoring activities at the facility on January 16, 2001. Site maps of the Dowell facility are shown on Figures 1 and 2.

Ground-water Elevation Data

WWC measured static water levels in each of 15 ground-water monitoring wells located on, or adjacent to, the Dowell facility (see Figure 1).

All wells were opened and allowed to equilibrate prior to measuring water levels with an oil-water interface probe. Ground-water elevation data (Table 1) were used to generate a potentiometric surface map of the facility as shown on Figure 3.

Ground-water elevation data are presented on Table 1.

Ground-water Quality Data

Ground-water samples were collected from 9 of the 15 facility wells, in addition to the Shell Station Well (i.e., MW-4). Samples were submitted to Energy Laboratories, Inc. (Energy) in Casper, Wyoming for analysis by EPA Method 8260 (volatile organics by gas chromatography/mass spectrometry, or "GCMS").

Page 2

14019 S.W. Freeway, Suite 301, PMB187
Sugar Land, Texas 77478
281-285-8498
jamiller@slb.com

April 20, 2001

In accordance with recommendations presented in the 1998 Annual Report, Wells 925-3, 925-5, 925-10, 925-11 and 925-12 are only sampled during the fourth quarter monitoring event.

A duplicate sample was collected to verify laboratory quality assurance/quality control (QA/QC). Sample 925-A is a duplicate sample from Well 925-4.

A summary of ground-water quality analytical data is provided in Table 2. Total halocarbon concentrations in the vicinity of the Dowell facility are depicted graphically on Figure 4.

SVE System Operation

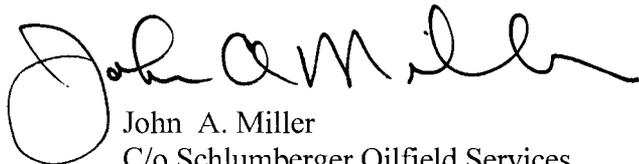
The three SVE systems have run continuously for the first quarter. Air samples were collected from each system and analyzed by EPA Method 8260. The results of the analysis are presented in Table 3.

Proposed Monitoring Schedule

The next sampling event is scheduled for April 2001.

If you have any questions or comments, please call me at 281/285-8498.

Sincerely,



John A. Miller
C/o Schlumberger Oilfield Services
200 Gillingham Lane, MD-7
Sugar Land, TX 77478

Enclosures

cc: Mr. Wayne Price, NMOCD-Hobbs District Office
WWC – Laramie, Wyoming

Ford, Jack

From: Ford, Jack
Sent: Friday, April 27, 2001 3:53 PM
To: 'jamiller@slb.com'
Subject: Monitoring Reports

GW-073

John,

Is it possible to henceforth send monitoring reports to OCD in electronic format rather than hardcopies? If so, please inform me of that and I will look for electronic files in the future. Thanks for all your assistance.

Best Regards

Jack Ford

NMOCD

RECEIVED

SEP 11 1996

Oil Conservation Division

NOTICE OF PUBLICATION

RECEIVED

SEP - 9 1996

9057

USFWS - NMESSO

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

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

(GW-73) -Dowell Schlumberger, Mr. Randall Timms, (505)-393-6186, 1105 West Bender, Hobbs, NM, 88240, has submitted a Discharge Plan Renewal Application for their Hobbs Service facility located in the NE/4 NE/4, Section 28, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. All wastes be stored in closed top receptacles and will be disposed of at an OCD approved facility. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 68 feet with a total dissolved solids concentration of ranging from 300 to 700 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 4th day of September, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

William J. Lemay M.E.S.

WILLIAM J. LEMAY, Director

WJL/pws

NO EFFECT FINDING

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

SEAL

Date September 10, 1996

Consultation # 96GW0CD-1

Approved by

[Signature]
U.S. FISH and WILDLIFE SERVICE

NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE
ALBUQUERQUE, NEW MEXICO

NOTICE OF PUBLICATION

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

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

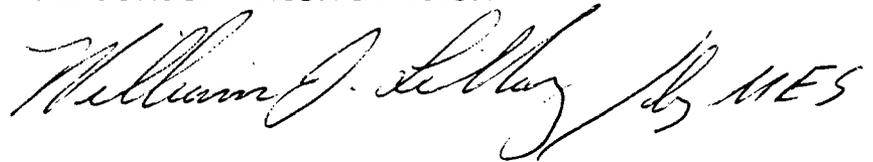
(GW-73) -Dowell Schlumberger, Mr. Randall Timms, (505)-393-6186, 1105 West Bender, Hobbs, NM, 88240, has submitted a Discharge Plan Renewal Application for their Hobbs Service facility located in the NE/4 NE/4, Section 28, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. All wastes be stored in closed top receptacles and will be disposed of at an OCD approved facility. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 68 feet with a total dissolved solids concentration of ranging from 300 to 700 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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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 4th day of September, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read "William J. Lemay" followed by the initials "WJL".

WILLIAM J. LEMAY, Director

S E A L

WJL/pws

**DOWELL SCHLUMBERGER
PO BOX 640
HOBBS NM 88240**

RECEIVED

SEP 04 1996

Environmental Bureau
Oil Conservation Division

SEPTEMBER 03, 1996

**PAT SANCHEZ
STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPT.
OIL CONSERVATION DIVISION
2040 SOUTH PACHECO ST.
SANTA FE NEW MEXICO 87505**

**RE: RENEWAL OF DISCHARGE PLAN GW-73
HOBBS SERVICE FACILITY
LEA CO. NEW MEXICO**

DEAR MR. SANCHEZ:

**IN REGARDS TO OUR TELEPHONE CONVERSATION I AM SUBMITTING
THE APPLICATION FOR THE RENEWAL OF OUR DISCHARGE PLAN
RENEWAL PERMIT WQCC GW-073.**

**ENCLOSED IS THE FOLLOWING REFERENCE MATERIAL THAT IS
REQUESTED ON THE APPLICATION. ALSO ENCLOSED A CHECK FOR
THE APPLICATION FEE.**

**ANY NEW CONSTRUCTION OR MODIFICATION WILL BE SUBMITTED FOR
APPROVAL AT SUCH TIME OF CHANGES.**

**INREGARDS TO ITEM # 13 ON THE APPLICATION THESE FORMS WILL BE
FILLED OUT AT A LATER DATE.**

**THANK YOU FOR YOUR HELP IN THIS MATTER ANY QUESTIONS CAN BE
DIRECTED TO MYSELF OR TO DARWIN THOMPSON AT 505-393-6186**

SINCERELY

**RANDALL TIMMS
HSE COORDINATOR**

P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1900 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 12/1/85
Submit Origin
Plus 1 Copy
to Santa
1 Copy to appropriate
District Office

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

New

Renewal

Modification

1. Type: Oil + Gas Service Discharge Plan
2. Operator: Dowell Schlumberger
Address: 1105 W. Bender / P.O. Box 640 Hobbs N.M. 88240
Contact Person: Randall Timms or Darwin Thompson Phone: 505-393-6186
3. Location: NE 1/4 NE 1/4 Section 28 Township 18S Range 38E
Submit large scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
14. CERTIFICATION

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

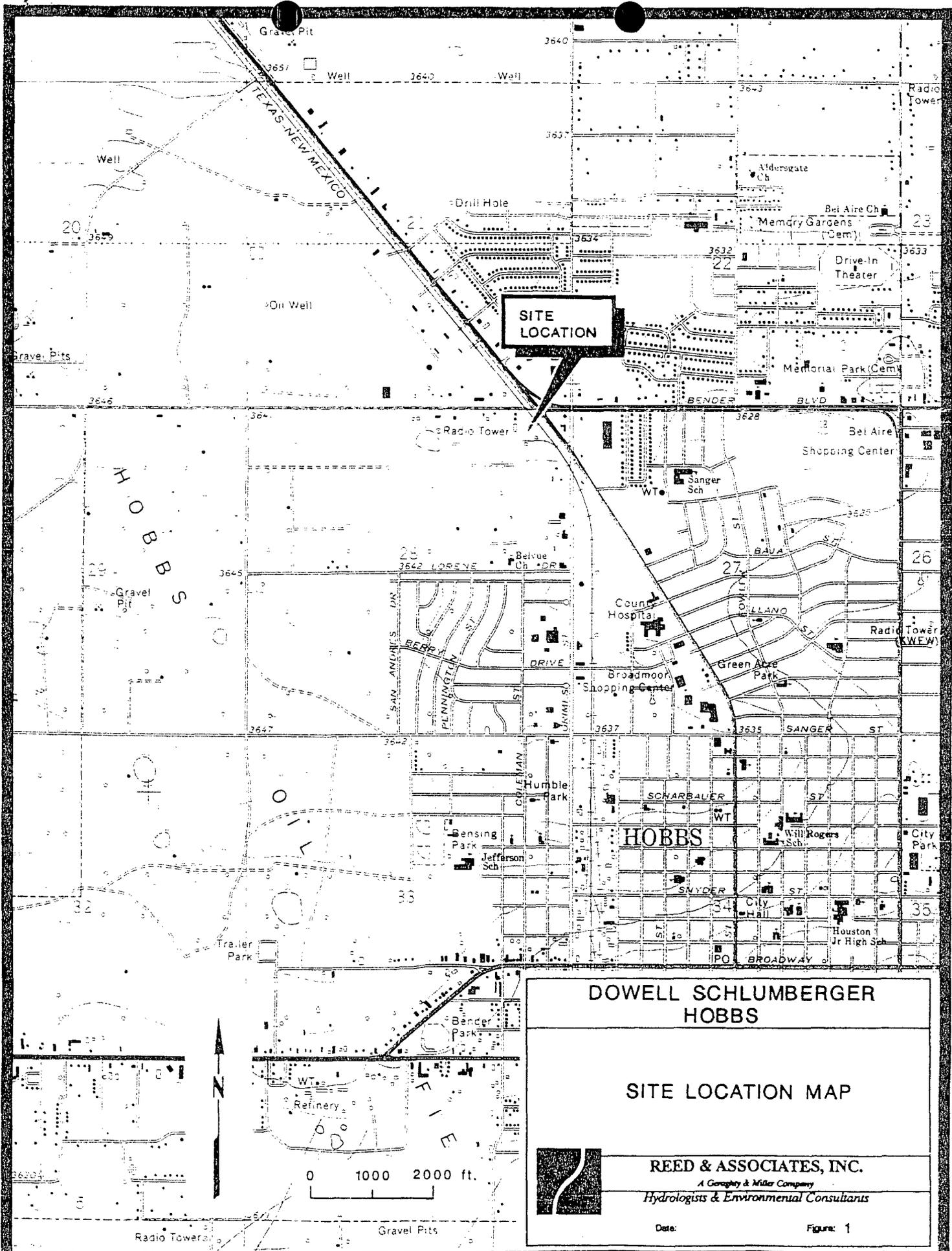
NAME: BRIAN T. TAYLOR Title: District Manager
Signature: Brian T Taylor Date: 9-3-96

RECEIVED

SEP 04 1996

Environmental Bureau
Oil Conservation Division

FWG
9-4-96



SITE LOCATION

**DOWELL SCHLUMBERGER
HOBBS**

SITE LOCATION MAP

REED & ASSOCIATES, INC.
A Corning & Miller Company
 Hydrologists & Environmental Consultants

Date: _____ Figure: 1

HYDROGEOLOGY

The geologic formation present at ground surface is the Tertiary Ogallala which consists of unconsolidated sands, silts, clays, and gravel, capped by caliche (Barnes, 1976). The caliche cap at the site is approximately 25 to 35 feet thick and is quite variable in thickness and composition. Beneath the caliche cap is orange-brown or yellow-brown fine-grained sand and sandstone with minor amounts of gravel. The thickness for the Ogallala is approximately 100 feet in the area (Barnes, 1976). The Ogallala is underlain by red siltstones and claystones of Mesozoic age, referred to locally as the "red beds" (Richey et al., 1985).

The Ogallala Formation is the major aquifer in the Southern High Plains region and is pumped extensively for municipal, industrial, and agricultural purposes. Recharge to the Ogallala is primarily from infiltration of precipitation. Infiltration rates are locally variable, with highs occurring in areas such as the sand dune fields east of Hobbs and lows occurring where thick, extensive caliche layers are present.

Depth-to-water in the region has gradually increased over the past years because of excessive pumping. The water table at the site is approximately 68 to 70 feet below ground surface. The hydraulic gradient in the Ogallala aquifer near the site is approximately 15 feet per mile in a southeasterly direction (Cronin, 1969).

Ground water from the Ogallala is generally suitable for all purposes. Historical records indicate that total dissolved solids typically range from approximately 300 to 700 milligrams per liter (mg/L), chloride from 30 to 170 mg/L, and sulfate from 60 to 160 mg/L (Ash, 1963).

LEGENDS
FACILITY / OFFSITE DISPOSAL

OFFSITE DISPOSAL LEGEND

1. WASTE STREAMS FROM TRANSPORT RINSATE, TRUCK WASHWATER AND MAINTENANCE SHOP WASHWATER, LAB WASTEWATER ARE COMBINED FOR OFF-SITE DISPOSAL AT C.R.I.
2. SOLVENT/DEGREASER IS SUPPLIED AND RECLAIMED ONCE USED BY SAFETY-KLEEN, INC.
3. USED MOTOR OIL AND ANTIFREEZE IS SENT OFF-SITE FOR RECLAMATION TO BE RE-USED AS FUEL.
4. USED OIL FILTERS ARE DRAINED AND DISPOSED AT THE LOCAL CITY LANDFILL VIA STORAGE IN DUMPSTER.
5. DISPOSAL OF CEMENT/SAND: SAND DISPOSAL - WASTE MANAGEMENT CITY LANDFILL; CEMENT DISPOSAL - REUSED FOR FENCE POSTS, SMALL SLAB GIVE AWAY.
6. CITY SEWER EXPLANATION: AT PRESENT NOT DISCHARGING THROUGH CITY SEWER. EXPECT TO BY END OF 1991.
7. USED DRUMS AND 5-GAL CONTAINERS ARE RECONDITIONED BY WEST TEXAS DRUM COMPANY.
8. HAVE NOT DISPOSED OF CONT. SOIL, BUT ARE ARRANGING W/NON-HAY DISP. COMPANY; ANY HAZARDOUS CONT. SOIL IS SCHEDULED FOR DOW INCINERATION, HOWEVER, WE HAVE NOT GENERATED...
9. NOT DISPOSED - USED ON-SITE FOR FILL OFF-SITE

FACILITY LEGEND

- T1 = WASTEWATER TANK
T2 = USED MOTOR OIL TANK
T3 = CEMENT BLOW-DOWN TANK
T4 = BIN FOR SAND STORAGE
- S1 = CONCRETE IL SKIMMER SUMP (WASH BAY)
S2 = CONCRETE ACID DOCK SUMP
S3 = CONCRETE LABORATORY SUMP
- L1 = CONCRETE LINED WASH BAY PIT
L2 = CONCRETE LINED ACID DOCK PIT
- F1 = CONCRETE WASH BAY FLOOR DRAIN
F2 =
- D1 = SAFETY-KLEEN DRUMS
D2 = USED DRUM STORAGE AREA
D3 = SATELLITE USED MOTOR OIL DRUMS
D4 = "SATELLITE" OIL SKIMMER DRUM
D5 = WASTE STORAGE AREA
D6 = "SATELLITE" ANTIFREEZE DRUM

09-jul-1991

MATERIALS CONTROL
DOWELL SCHLUMBERGER CONFIDENTIAL

11:42:22

PRODUCT SUMMARY WITH MSDS EFFECTIVE DATE

<u>CHEM CODE</u>	<u>PRODUCT NAME</u>	<u>MSDS DATE</u>	<u>ITEM CODE</u>	<u>C.C.*</u>	<u>PRODUCT STEWARD</u>
A026	XYLENE A26	14 AUG 90	062018	3	J. M. WILLIAMS
A120	CORROSION INHIBITOR A120	11 FEB 91	081005	2	D. NESBITT
A125	CORBAN (*) 210 WD CORROSION INHIBITOR A125	14 AUG 90	061018	3	S. E. GRANNAN
A133	INHIBITOR A133	02 NOV 88	081008	3	D. NESBITT
A140	GLYCERINE A140	09 FEB 88	047022	3	K. H. NIMERICK
A153	INHIBITOR AID A153	14 AUG 90	011010	3	S. E. GRANNAN
A162	CORBAN (*) 325 CORROSION INHIBITOR A162	28 FEB 91	061028	3	S. E. GRANNAN
A163	CORBAN (*) 326 CORROSION INHIBITOR A163	28 FEB 91	061029	2	S. E. GRANNAN
A163N	CORBAN (*) 326W CORROS. INHIB (WINTER GRADE) A163N	16 AUG 90	101826	2	S. E. GRANNAN
A166	CORROSION INHIBITOR A166	17 AUG 90	011014	3	S. E. GRANNAN
A179	INHIBITOR AID A179	20 AUG 90	011015	3	S. E. GRANNAN
A186	CORROSION INHIBITOR A186	20 AUG 90	011020	3	S. E. GRANNAN
A190	INHIBITOR A190	02 NOV 88	081030	3	D. NESBITT
A191	INHIBITOR A191	11 FEB 91	081031	3	D. NESBITT
A196	CORROSION INHIBITOR A196	11 FEB 91	081032	2	D. NESBITT
A200.2	CORROSION INHIBITOR A200.2	28 FEB 91	011028	2	S. E. GRANNAN
A201	INHIBITOR AID A201	20 AUG 90	011026	3	S. E. GRANNAN
A205	CORBAN (*) 333 CORROSION INHIBITOR A205	14 AUG 90	011029	2	T. E. HUDSON
A224	CORROSION INHIBITOR A224	28 FEB 91	081040	3	S. E. GRANNAN
A231	CORBAN (*) 400 CORROSION INHIBITOR A231	30 OCT 89	101763	3	S. E. GRANNAN
A250	CORROSION INHIBITOR A250	20 AUG 90	014014	2	S. E. GRANNAN
A251	CORROSION INHIBITOR A251	20 AUG 90	101185	2	D. NESBITT
A253	LOW-TOX INHIBITOR A253	02 MAR 88	102268	3	D. NESBITT
A260	CORROSION INHIBITOR A260	28 FEB 91	102548	1	D. G. HILL
A270	HIGH-TEMPERATURE CORROSION INHIBITOR A270	28 FEB 91	102475	1	D. G. HILL
A280	HI CR CORROSION INHIBITOR A280	11 FEB 91	102867	1	D. G. HILL
A281	HI CR CORROSION INHIBITOR AID A281	20 JUN 90	102866	1	D. G. HILL
B001	FLUID-LOSS ADDITIVE B1	08 JUN 89	102524	2	D. J. DEBOLT
B005	CORROSION INHIBITOR B5	08 JUN 89	102590	1	D. J. DEBOLT
B006	ANTI SLUDGE AGENT B6	23 JUN 89	102597	1	D. J. DEBOLT
B007	SURFACTANT B7	09 JUN 89	102591	1	D. J. DEBOLT
B008	ANTI SLUDGE AGENT B8	22 JUN 89	102593	3	D. J. DEBOLT
B009	SURFACTANT B9	29 JUN 89	102600	3	D. J. DEBOLT
B010	IRON CONTROL AGENT B10	08 JUN 89	102594	1	D. J. DEBOLT
B011	ACID RETARDER B11	03 OCT 89	102621	3	J. L. THOMPSON
B012	FLUID-LOSS ADDITIVE B12	20 AUG 90	102626	3	D. J. DEBOLT
B013	FLUID-LOSS ADDITIVE B13	04 FEB 91	102836	3	D. J. DEBOLT
B014	FLAC (*) B14 CUSTOM BLEND	08 NOV 89	102639	3	D. J. DEBOLT
B015	SURFACTANT B15	15 JUN 90	102838	3	D. J. DEBOLT
B017	FLAC (*) B17 FLUID LOSS ADDITIVE	27 JUN 90	102853	3	D. J. DEBOLT
B018	ANTISEDIMENTATION AGENT B18	11 OCT 90	102922	2	D. J. DEBOLT
B800	HILITE CEMENT BLEND B800	14 AUG 90	102850	2	D. J. DEBOLT
D008	RETARDER AND FLUID LOSS AGENT D8	16 JAN 91	045022	3	H. HENDRIKS
D013	RETARDER D13	16 JAN 91	045023	3	R. ROEMER
D018	ILMENITE WEIGHTING AGENT D18	07 NOV 88	045026	3	R. ROEMER

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D020	BENTONITE EXTENDER D20	07 OCT 88	045014	3	R. ROEMER
D024	GILSONITE EXTENDER D24	07 NOV 88	045015	3	R. ROEMER
D028	RETARDER D28	09 APR 90	045025	2	R. ROEMER
D029	CELLOPHANE FLAKE D29	07 NOV 88	044003	3	R. ROEMER
D030	CEMENT SILICA D30	09 JUL 88	045027	3	R. ROEMER
D031	BARITE D31	07 NOV 88	045028	3	R. ROEMER
D035	LITEPOZ (*) 3 EXTENDER D35	26 SEP 88	045008	3	R. ROEMER
D042	KOLITE (*) D42 LOST CIRCULATION ADDITIVE	16 JAN 91	045019	3	R. ROEMER
D044	GRANULATED SALT D44	16 AUG 90	045004	3	R. ROEMER
D045	TIC (*) D45 DISPERSANT	16 JAN 91	047008	3	M. MICHAUX
D046	ANTIPOAM D46	20 SEP 88	047002	3	R. ROEMER
D047	ANTIPOAM AGENT D47	09 APR 90	047003	3	R. ROEMER
D048	LITEPOZ (*) 6 EXTENDER D48	03 NOV 88	045011	3	R. ROEMER
D049	TRINITY LITE WATE CEMENT D49	07 OCT 88	040012	3	E. E. CLUM
D051	CEMENT LUMNITE D51	03 NOV 88	040010	3	E. E. CLUM
D052	CIMENT FONDU D52	03 NOV 88	040009	3	E. E. CLUM
D053	CEMENT AGENT D53	07 NOV 88	045020	3	R. ROEMER
D053.1	CEMENT AGENT D53.1	07 NOV 88	101819	3	K. S. CHAN
D056	EXTENDER D56	02 NOV 88	045018	3	E. E. CLUM
D059	FLAC (*) D59 FLUID LOSS ADDITIVE	16 JAN 91	044006	3	H. HENDRIKS
D060	FLAC (*) D60 FLUID LOSS ADDITIVE	16 JAN 91	044002	3	H. HENDRIKS
D061	LITEPOZ (*) 7 EXTENDER D61	03 NOV 88	045012	3	R. ROEMER
D065	TIC (*) D65 DISPERSANT	20 JUN 90	047007	3	H. HENDRIKS
D065A	SALTBOND (*) II ADDITIVE D065A	20 JUN 90	102130	1	H. HENDRIKS
D066	SILICA FLOUR D66	09 APR 90	045031	3	R. ROEMER
D072	EXTENDER D72	03 NOV 88	045017	3	R. ROEMER
D073.1	FLUID-LOSS ADDITIVE D73.1	05 NOV 88	044009	3	H. HENDRIKS
D074	RETARDER D74	05 NOV 88	045033	3	M. MICHAUX
D075	SILICATE ADDITIVE D75	09 APR 90	045034	3	R. ROEMER
D076	HEMATITE WEIGHTING AGENT D76	09 APR 90	045035	3	R. ROEMER
D077	LIQUID ACCELERATOR D77	16 AUG 90	000426	3	R. ROEMER
D079	CHEMICAL EXTENDER D79	16 AUG 90	045041	3	R. ROEMER
D080	CEMENT LIQUID DISPERSANT D80	16 AUG 90	045042	3	H. HENDRIKS
D080A	SALTBOND (*) II ADDITIVE D80A	09 APR 90	102131	1	H. HENDRIKS
D081	LIQUID RETARDER D81	09 APR 90	045043	3	R. ROEMER
D088	EPOXY RESIN D88	09 FEB 88	045029	3	H. HENDRIKS
D093	RETARDER D93	09 APR 90	045054	3	M. MICHAUX
D104	SPACER 1000 D104	20 SEP 88	000415	2	H. HENDRIKS
D104.1	SPACER 1001 D104.1	20 SEP 88	000408	2	H. HENDRIKS
D104S	SPACER 1000 MIX D104S	20 SEP 88	045083	2	H. HENDRIKS
D109	CEMENT RETARDER D109	05 NOV 88	045045	3	R. ROEMER
D110	CEMENT RETARDER D110	09 APR 90	045040	2	R. ROEMER
D111	RFCA AGENT D111	11 FEB 91	045070	2	R. ROEMER
D112	FLAC (*) D112 FLUID LOSS ADDITIVE	16 JAN 91	044011	3	H. HENDRIKS
D115	SPACER 3000 D115	26 SEP 88	000409	2	H. HENDRIKS

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D115.1	SPACER 3001 D115.1	26 SEP 88	000410	2	H. HENDRIKS
D115R	SPACER 3000 CONCENTRATE D115R	26 SEP 88	102129	2	H. HENDRIKS
D115W	SPACER 3000 CONCENTRATE D115W	09 APR 90	101783	2	D. GUILLOT
D121	TIC (*) III TRIFUNCTIONAL ADDITIVE D121	16 JAN 91	100285	2	R. ROEMER
D122A	CHEMICAL WASH CONCENTRATE D122A	14 AUG 90	101027	2	H. HENDRIKS
D124	LITEFIL (*) D124 EXTENDER	03 NOV 88	100882	3	R. ROEMER
D125	PREMIUM EXTENDER D125	03 NOV 88	101015	3	E. E. CLUM
D127	FLAC (*) D127 FLUID-LOSS ADDITIVE	16 JAN 91	101036	2	H. HENDRIKS
D128	ATTAPULGITE D128	07 NOV 88	040023	3	R. ROEMER
D129	SYNTHETIC CEMENT HARDNER D129	15 JUN 90	101485	2	E. E. CLUM
D130	POLYESTER FLAKE D130	07 NOV 88	101503	3	H. HENDRIKS
D132	CEMENT EXTENDER D132	03 NOV 88	101545	3	R. ROEMER
D134	GASBLOK (*) D134 HIGH-TEMPERATURE ADDITIVE	05 NOV 88	102367	1	R. ROEMER
D135	GASBLOK (*) D135 STABILIZER	07 NOV 88	102098	2	R. ROEMER
D136	FLA (*) 03 FLUID LOSS ACTIVATOR D136	26 SEP 88	101825	3	K. S. CHAN
D137	GASTRESS (*) D137 ADDITIVE	26 SEP 88	101824	1	K. S. CHAN
D138	GASBLOK (*) D138 CLAY STABILIZER	07 NOV 88	102094	1	H. HENDRIKS
D139	FOAMED CEMENT STABILIZER D139	28 FEB 91	102110	2	J. DEROZIERES
D140	LOW-TEMPERATURE HARDENER D140	16 AUG 90	102464	2	R. ROEMER
D141	HIGH-TEMPERATURE HARDENER D141	16 AUG 90	102465	2	R. ROEMER
D142	HIGH-TEMPERATURE EXPANDING CEMENT ADDITIVE D142	19 JUL 88	102432	1	E. E. CLUM
D143	FLAC (*) D143 FLUID-LOSS ADDITIVE	14 DEC 90	102438	2	E. E. CLUM
D144	ANTIFOAM AGENT D144	29 JUN 89	102477	3	R. ROEMER
D145	LOW-TEMPERATURE LIQUID DISPERSANT D145	16 AUG 90	102480	2	H. HENDRIKS
D146	FLAC (*) D146 LOW-TEMP FLUID LOSS ADDITIVE	03 MAY 90	102841	2	R. ROEMER
D147	MUDPUSH (*) XT FRESH WATER TURBULENT SPACER D147	30 APR 90	102774	1	F. CALLET
D148	MUDPUSH (*) XS SALT TURBULENT SPACER D148	09 APR 90	102775	1	H. HENDRIKS
D149	MUDPUSH (*) XL LAMINAR SPACER D149	25 FEB 91	102776	1	H. HENDRIKS
D150	RETARDER D150	01 MAY 90	102833	2	R. ROEMER
D600	GASBLOK (*) D600 ADDITIVE	30 APR 90	101586	1	R. ROEMER
D600W	WELBOND (*) D600W ADDITIVE	05 NOV 88	101692	1	R. ROEMER
D601	CEMENT EXTENDER D601	07 NOV 88	102485	3	H. HENDRIKS
D602	CEMENT EXTENDER D602	09 APR 90	102479	3	H. HENDRIKS
D603	FLAC (*) D603 FLUID-LOSS ADDITIVE	02 NOV 88	101667	2	H. HENDRIKS
D603.2	FLAC (*) D603.2 FLUID-LOSS ADDITIVE	04 JUN 90	102261	2	H. HENDRIKS
D604AM	SALTBOND (*) II ADDITIVE D604AM	29 SEP 88	102440	1	H. HENDRIKS
D604M	DISPERSANT D604M	09 APR 90	102441	1	H. HENDRIKS
D606	GEL SUPPRESSING AGENT D606	07 NOV 88	102428	3	H. HENDRIKS
D607	SURFACTANT D607	16 AUG 90	101564	2	H. HENDRIKS
D800	MID-TEMP RETARDER-S D800	03 NOV 88	101654	2	R. ROEMER
D801	MID-TEMP RETARDER-L D801	09 APR 90	101655	2	R. ROEMER
D804A	REGULATED FILLUP CEMENT D804A	15 APR 88	102146	3	E. E. CLUM
D805	POLYMER PLUG D805	16 FEB 90	000428	2	E. E. CLUM
D808	SELF STRESS II ADDITIVE D808	14 JUN 89	000436	2	E. E. CLUM
D815	ARCTICSET (*) III CEMENT D815	15 APR 88	040019	2	E. E. CLUM

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D816	ARCTICSET (*) I CEMENT D816	15 APR 88	040020	2	E. E. CLUM
D817	ARCTICSET (*) II CEMENT D817	15 APR 88	040021	2	E. E. CLUM
D824	SYNTHETIC CEMENT D824	23 FEB 90	100256	2	R. ROEMER
D826	CHEMICAL WASH CW7 D826	26 SEP 88	100282	2	H. HENDRIKS
D827	CHEMICAL WASH CW100 D827	26 SEP 88	100283	2	H. HENDRIKS
D867	VERCEMIX (*) LT CEMENT D867	07 OCT 88	100954	2	E. E. CLUM
D880	QUICK-SETTING CEMENT D880	15 APR 88	101583	2	E. E. CLUM
D882	CHEMICAL WASH CW8 D882	26 SEP 88	101631	2	H. HENDRIKS
D883	CHEMICAL WASH CW101 D883	26 SEP 88	101632	2	H. HENDRIKS
D884	CHEMICAL WASH CW8-ES D884	26 SEP 88	101633	2	H. HENDRIKS
D885	CHEMICAL WASH CW101-ES D885	26 SEP 88	101634	2	H. HENDRIKS
D886	SPACER 1001-ES D886	09 MAR 90	101635	2	H. HENDRIKS
D887	SPACER 3001-ES D887	09 MAR 90	101636	2	H. HENDRIKS
D889	CO2 RESISTANT CEMENT D889	07 OCT 88	101715	1	R. ROEMER
D895	HIGH-TEMPERATURE FLAC D895	05 JAN 90	101784	2	H. HENDRIKS
D896	SURFACE SET I CEMENT D896	15 APR 88	101812	2	K. S. CHAN
D897	SURFACE SET II CEMENT D897	15 APR 88	101813	2	K. S. CHAN
D898	SURFACE SET III CEMENT D898	15 APR 88	101814	2	K. S. CHAN
D899	ARCTICSET (*) IV CEMENT D899	15 APR 88	101830	2	E. E. CLUM
D901	CEMENT CLASS A D901	15 APR 88	040001	3	E. E. CLUM
D902	CEMENT CLASS B D902	15 APR 88	040002	3	E. E. CLUM
D903	CEMENT CLASS C D903	15 APR 88	040003	3	E. E. CLUM
D907	CEMENT CLASS G D907	09 APR 90	040007	3	E. E. CLUM
D909	CEMENT CLASS H D909	15 APR 88	040015	3	E. E. CLUM
D911	LIGHTWEIGHT I CEMENT D911	15 APR 88	040011	3	E. E. CLUM
D918	NORMAL PORTLAND CEMENT D918	15 APR 88	101810	3	K. S. CHAN
D921	ASTM TYPE V CEMENT D921	15 APR 88	102194	3	E. E. CLUM
D922	LIQUID ACCELERATOR D922	19 FEB 90	102222	3	R. ROEMER
D927	QUICK-SETTING CEMENT II D927	19 FEB 90	102435	2	E. E. CLUM
D928	SURFACE SET LIQUID ADDITIVE D928	11 SEP 90	102881	2	H. HENDRIKS
D951	SULFATE RESISTANT CEMENT D951	07 OCT 88	102195	2	E. E. CLUM
F003	ISOPROPYL ALCOHOL F3	06 OCT 88	013001	3	J. L. THOMPSON
F038	SURFACTANT F38	14 AUG 90	013006	2	J. L. THOMPSON
F040	EZEFLO (*) F40 SURFACTANT	14 DEC 90	063002	2	J. L. THOMPSON
F052.1	FOAMING AGENT F52.1	16 AUG 90	013055	3	J. L. THOMPSON
F056	SURFACTANT F56	10 NOV 88	013057	2	J. L. THOMPSON
F057	SURFACTANT F57	06 SEP 88	083013	2	J. L. THOMPSON
F058	SURFACTANT F58	09 NOV 88	083014	2	D. NESBITT
F075N	EZEFLO (*) F75N SURFACTANT	28 FEB 91	013048	2	J. L. THOMPSON
F078	EZEFLO (*) F78 SURFACTANT	25 FEB 91	013050	2	J. L. THOMPSON
F082	SURFACTANT F82	10 NOV 88	083020	2	D. NESBITT
F085	FOAMING AGENT F85	16 AUG 90	083021	2	D. NESBITT
F097	SURFACTANT F97	16 AUG 90	102235	2	J. L. THOMPSON
F098	ACID RETARDER F98	28 DEC 89	102642	2	C. W. CROWE
F600	FOAMING AGENT F600	06 MAR 91	102526	2	J. M. WILLIAMS

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F800	TRIFUNCTIONAL ADDITIVE 380 F800	09 JAN 91	100744	2	J. L. THOMPSON
F801	FOAMER F801	29 JUN 89	101362	2	J. L. THOMPSON
F802	SURFACTANT F802	29 JUN 89	101363	2	J. L. THOMPSON
F803	TRIFUNCTIONAL ADDITIVE 380 F803	11 NOV 88	102196	2	J. L. THOMPSON
G005	FOAMING STICKS G5	09 NOV 88	063006	3	J. L. THOMPSON
G008	HYDROCARBON FOAMING AGENT G8	14 AUG 90	024135	3	J. L. THOMPSON
H005	HYDROCHLORIC ACID 5% H5	27 FEB 91	010010	3	C. W. CROWE
H010	HYDROCHLORIC ACID 10% H10	25 FEB 91	010012	3	C. W. CROWE
H015	HYDROCHLORIC ACID 15% H15	25 FEB 91	010013	3	C. W. CROWE
H020	HYDROCHLORIC ACID 20% H20	25 FEB 91	010014	3	C. W. CROWE
H028	HYDROCHLORIC ACID 28% H28	13 APR 88	010015	3	C. W. CROWE
H034	HYDROCHLORIC ACID 34% H34	13 APR 88	010016	3	C. W. CROWE
H036	HYDROCHLORIC ACID 36% UNINHIBITED H36	14 AUG 90	101167	3	C. W. CROWE
H038	WELLAID 211 ACID CORROSION INHIBITOR H38	24 FEB 88	102176	3	J. L. THOMPSON
H075	HYDROCHLORIC ACID 7.5% H75	25 FEB 91	010011	3	C. W. CROWE
H135	HCL ACID 13.5% H135	25 FEB 91	102213	3	C. W. CROWE
H152	HCL/HF ACID 25/20 H152	12 JUL 88	010002	3	B. DARGAUD
H200	HYDROFLUORIC ACID 20% H200	10 JUL 88	010006	3	B. DARGAUD
H315	HCL ACID 20 BE H315	13 APR 88	101166	3	C. W. CROWE
H700	HYDROFLUORIC ACID, 70% H700	10 JUL 88	010005	3	B. DARGAUD
H813	CLAY ACID H813	11 FEB 91	000148	2	H. PERTHUIS
H814	CLAY ACID LT H814	11 FEB 91	100309	2	H. PERTHUIS
H844	CLEAN SWEEP II H844	25 APR 89	100339	2	H. PERTHUIS
H912	CLAY ACIDPAC (*) H912 CARRYING FLUID	14 NOV 88	102293	2	H. PERTHUIS
H913	CLAY ACID H913	14 NOV 88	102309	2	H. PERTHUIS
H914	CLAY ACID LT H914	14 NOV 88	102310	2	H. PERTHUIS
H948	DILUTE MUD ACID H948	09 JUN 89	102542	2	B. DARGAUD
H949	REGULAR MUD ACID H949	09 JUN 89	102543	3	B. DARGAUD
H950	SUPER MUD ACID H950	09 JUN 89	102544	2	B. DARGAUD
H951	GAS WELL ACID H951	09 JUN 89	102545	2	P. Y. SERRE
H952	GAS WELL MUD ACID H952	09 JUN 89	102546	2	P. Y. SERRE
H953	SUPER GAS WELL MUD ACID H953	09 JUN 89	102547	2	P. Y. SERRE
J055	OIL-BASED GELLING AGENT J55	09 NOV 88	024146	3	K. H. NIMERICK
J059	FIXAFRAC (*) J59 DIVERTING AGENT	03 MAY 90	064003	3	K. H. NIMERICK
J066	FIXAFRAC (*) J66 DIVERTING AGENT	16 AUG 90	064011	3	K. H. NIMERICK
J066S	FIXAFRAC (*) J66S DIVERTING AGENT	03 MAY 90	064013	3	K. H. NIMERICK
J084	FLUID-LOSS ADDITIVE J84	03 MAY 90	024004	3	S. E. BARANET
J110	FLUID-LOSS ADDITIVE J110	09 NOV 88	024009	3	S. E. BARANET
J120	FRICTION-REDUCING AGENT J120	03 MAY 90	014003	3	K. H. NIMERICK
J126	FLUID-LOSS ADDITIVE J126	09 NOV 88	024008	3	K. H. NIMERICK
J133	FAST-HYDRATING GUAR GUM J133	13 SEP 88	024018	3	K. H. NIMERICK
J134	BREAKER J134	16 JAN 91	005010	3	K. E. CAWIEZEL
J134L	ENZYME BREAKER J134L	13 JUL 90	102852	3	K. E. CAWIEZEL
J164	GELLING AGENT J164	16 JAN 91	024037	3	T. E. HUDSON
J166	SYNTHETIC POLYMER J166	09 JUN 88	024036	3	K. H. NIMERICK

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J168	DIVERTING AGENT J168	03 MAY 90	100938	3	J. M. WILLIAMS
J170	LOW-TEMPERATURE PLUGGING AGENT J170	13 SEP 88	024040	3	K. H. NIMERICK
J171	HIGH-TEMPERATURE PLUGGING AGENT J171	13 SEP 88	024042	3	K. H. NIMERICK
J218	BREAKER J218	16 AUG 90	024069	3	J. GULBIS
J227	FIXAFRAC (*) J227 DIVERTING AGENT	03 MAY 90	064017	3	J. M. WILLIAMS
J237A	MATRIX ACIDIZING DIVERTING AGENT J237A	03 MAY 90	101743	2	J. M. WILLIAMS
J238	DIVERTING AGENT J238	03 MAY 90	014008	3	C. W. CROWE
J242	ADDITIVE J242	14 AUG 90	024080	2	K. H. NIMERICK
J257	OIL FRICTION REDUCING AGENT J257	14 AUG 90	024090	3	K. H. NIMERICK
J274	ZONETROL (*) J274 PROTECTIVE AGENT	09 NOV 88	024097	2	J. M. WILLIAMS
J279	SYNTHETIC POLYMER J279	16 SEP 88	024099	3	K. H. NIMERICK
J285	BREAKER J285	03 MAY 90	025043	3	K. H. NIMERICK
J286	BREAKER J286	14 AUG 90	025057	3	T. E. HUDSON
J291	DEFOAMER J291	03 MAY 90	023010	3	K. H. NIMERICK
J292	OIL GELLING AGENT J292	14 AUG 90	024105	2	K. H. NIMERICK
J295	BREAKER J295	03 MAY 90	024106	2	K. H. NIMERICK
J297	LOW-TEMPERATURE BREAKER J297	07 OCT 88	024107	3	K. H. NIMERICK
J312	WATER GELLING AGENT J312	03 MAY 90	024050	3	B. R. AINLEY
J313	WATER FRICTION REDUCING AGENT J313	03 MAY 90	024112	3	K. H. NIMERICK
J318	LIQUID BREAKER AID J318	14 AUG 90	024121	3	K. H. NIMERICK
J321	FRICTION REDUCING AGENT J321	16 AUG 90	014011	3	K. DOHRER
J330	BRINE SAVER J330	09 NOV 88	064100	3	C. W. CROWE
J347	WATER GELLING AGENT J347	03 MAY 90	024108	2	H. D. BRANNON
J348	SEAWATER GELLING AGENT J348	13 SEP 88	024123	2	H. D. BRANNON
J349	CALCIUM HYPOCHLORITE J349	09 NOV 88	102500	3	J. GULBIS
J352	CROSSLINKER J352	16 AUG 90	024128	2	R. M. HODGE
J353	HIGH-TEMPERATURE GEL STABILIZER J353	26 FEB 88	024129	2	R. M. HODGE
J360	GELLING AGENT J360	10 OCT 88	014012	2	K. H. NIMERICK
J362	COLD WATER GELLING AGENT J362	13 SEP 88	024113	2	H. D. BRANNON
J363	DIVERTING AGENT J363	10 OCT 88	014010	3	J. M. WILLIAMS
J364	BREAKER AID J364	16 OCT 89	024147	3	K. E. CAWIEZEL
J368	BREAKER ACTIVATOR J368	16 OCT 89	024139	3	K. E. CAWIEZEL
J369	HEVIPACK I LIQUID BRINE THICKENER J369	16 AUG 90	100374	2	T. E. HUDSON
J418	FLUID-LOSS ADDITIVE J418	09 JUL 88	100284	3	K. H. NIMERICK
J419	HEVIPACK II LIQUID BRINE THICKENER J419	10 OCT 88	100787	2	T. E. HUDSON
J421	OIL GELLING AGENT J421	25 JAN 89	100854	2	K. H. NIMERICK
J422	HEVIVIS (*) III LIQUID BRINE THICKENER J422	10 OCT 88	101118	1	T. E. HUDSON
J423	DIVERTER J423	09 NOV 88	100972	2	K. H. NIMERICK
J424	WATER GELLING AGENT J424	13 SEP 88	100977	3	H. D. BRANNON
J425	ACID GELLING AGENT J425	09 NOV 88	100973	1	J. L. THOMPSON
J426	FLA (*) 100-OS FLUID-LOSS ADDITIVE J426	10 NOV 88	101432	3	K. H. NIMERICK
J429	ACID GELLING AGENT J429	16 SEP 88	101028	2	C. W. CROWE
J433	WATER CONTROL POLYMER J433	16 SEP 88	101094	2	J. M. WILLIAMS
J443	ACID GELLING AGENT J443	16 SEP 88	101433	3	C. W. CROWE
J444	CROSSLINKER J444	09 NOV 88	101514	1	S. E. BARANET

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J449	CROSSLINKER J449	05 NOV 88	101619	3	S. E. BARANET
J450	STABILIZER J450	07 OCT 88	101620	2	K. H. NIMERICK
J451	LIQUID FLUID-LOSS ADDITIVE J451	14 DEC 90	101599	2	J. GULBIS
J452	OIL GELLING AGENT J452	25 JAN 89	101604	2	K. H. NIMERICK
J453	LIQUID ACTIVATOR J453	20 AUG 90	101605	2	K. H. NIMERICK
J455	LGO BREAKER J455	11 NOV 88	101816	3	K. H. NIMERICK
J456	SLURRIABLE HPG J456	13 SEP 88	102188	2	H. D. BRANNON
J457	SLURRIABLE GUAR J457	13 SEP 88	102284	2	H. D. BRANNON
J459	BREAKER AID J459	10 NOV 88	102242	3	K. H. NIMERICK
J462	PERMPAC (*) J462 GELLING AGENT	30 AUG 90	102404	1	T. E. HUDSON
J463	PERMPAC (*) J463 GELLING ACTIVATOR	03 MAY 90	102405	1	T. E. HUDSON
J464	BUFFERING AGENT J464	03 MAY 90	102493	1	R. M. HODGE
J465	SLURRIABLE CROSSLINK ACTIVATOR J465	19 JAN 89	102520	2	K. E. CAWIEZEL
J466	BREAKER AID J466	19 JAN 89	102521	1	K. E. CAWIEZEL
J467	DGS (*) J467 PLUGGING AGENT	22 FEB 91	102630	2	J. M. WILLIAMS
J468	DGS (*) J468 ORGANIC ACTIVATOR	06 NOV 89	102633	2	J. M. WILLIAMS
J469	DGS (*) J469 LT GEL ACTIVATOR	01 MAR 91	102632	2	J. M. WILLIAMS
J470	DGS (*) J470 HT ORGANIC ACTIVATOR	06 NOV 89	102631	2	J. M. WILLIAMS
J471	LCA IRON CONTROL AGENT J471	14 AUG 90	102577	3	C. W. CROWE
J472	LCA FLUID LOSS ADDITIVE J472	14 AUG 90	102578	3	C. W. CROWE
J473	COALBED METHANE ADDITIVE (CBMA) J473	14 DEC 90	102905	1	K. H. NIMERICK
J474	SLURRIABLE CROSSLINK ACTIVATOR J474	28 FEB 91	102705	2	K. E. CAWIEZEL
J475	EB-CLEAN (*) J475 BREAKER	20 DEC 90	102896	1	J. GULBIS
J601	CROSSLINKER J601	10 NOV 88	101515	2	K. H. NIMERICK
J602	PH CONTROL AGENT J602	27 JUL 89	101516	3	K. H. NIMERICK
J602L	PH CONTROL AGENT J602L	10 NOV 88	101789	3	K. H. NIMERICK
J603	BREAKER J603	09 NOV 88	101517	2	K. H. NIMERICK
J823	FREFLO (*) F PREFLUSH J823	29 JUN 89	100857	2	K. H. NIMERICK
J853	WATERFRAC FLUID J853	15 APR 88	101197	2	K. H. NIMERICK
J861	WIDEFRAC 100 CONVERSION CHARGE J861	14 APR 88	000281	2	K. H. NIMERICK
J862	WIDEFRAC 200 CONVERSION CHARGE J862	14 APR 88	000282	2	K. H. NIMERICK
J866	WIDEFRAC 600 CONVERSION CHARGE J866	15 APR 88	000286	2	K. H. NIMERICK
J868	WIDEFRAC GO III FRAC FLUID J868 - BATCH MIX	11 OCT 89	000288	2	K. H. NIMERICK
J875	WATERFRAC 200 J875	15 APR 88	101827	2	K. H. NIMERICK
J876	HPG POLYMER SLURRY J876	02 NOV 88	102187	2	H. D. BRANNON
J877	PSG POLYMER SLURRY J877	14 AUG 90	102320	2	H. D. BRANNON
J887	ACTIVATOR SOLUTION J887	03 OCT 88	102220	2	K. E. CAWIEZEL
J891	WIDEFRAC 600A CONVERSION CHARGE J891	15 APR 88	102311	2	S. E. BARANET
J892	WIDEFRAC 600B CONVERSION CHARGE J892	15 APR 88	102312	2	S. E. BARANET
J893	WIDEFRAC 600C CONVERSION CHARGE J893	15 APR 88	102313	2	S. E. BARANET
J894	WIDEFRAC 600BC CONVERSION CHARGE J894	15 APR 88	102314	2	S. E. BARANET
J895	WIDEFRAC 600D CONVERSION CHARGE J895	14 APR 88	102319	2	S. E. BARANET
J896	WIDEFRAC GO III FRAC FLUID J896 - CONTINUOUS MIX	13 JUN 89	102321	2	K. H. NIMERICK
J897	PERMPAC (*) J897 GRAVEL PACK FLUID	19 FEB 90	102322	1	T. E. HUDSON
J898	WIDEFRAC GO III ACTIVATOR J898	30 JUN 89	102469	2	K. H. NIMERICK

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J899	CROSSLINK ACTIVATOR SLURRY J899	19 JAN 89	102522	1	K. E. CAWIEZEL
J900	WIDEFAC 100D J900	13 JUN 89	102533	2	K. E. CAWIEZEL
J901	WIDEFAC 200D J901	13 JUN 89	102534	2	K. E. CAWIEZEL
J902	WIDEFAC 300 LPH J902	13 JUN 89	102535	2	R. M. HODGE
J903	WIDEFAC 400 LPH J903	13 JUN 89	102536	2	R. M. HODGE
J904	WIDEFAC 500 HT J904	13 JUN 89	102537	2	K. H. NIMERICK
J905	WIDEFAC 600 LT J905	13 JUN 89	102538	2	K. H. NIMERICK
J906	WIDEFAC 600 HT J906	13 JUN 89	102539	2	K. H. NIMERICK
J909	CROSSLINK ACTIVATOR SLURRY J909	10 AUG 90	102706	1	K. E. CAWIEZEL
K012	SULFURIC ACID 93.19% K12	15 JUL 88	080002	3	D. NESBITT
K046	METHANOL K46	28 FEB 91	086003	3	J. L. THOMPSON
K123	COUPLING AGENT K123	09 NOV 88	036016	3	R. M. HODGE
K187	CATALYST K187	19 JUN 90	036029	2	R. M. HODGE
K200C	SAND CONSOLIDATION RESIN K200C	30 NOV 88	036032	2	R. M. HODGE
K201	CATALYST K201	26 OCT 89	036033	3	K. H. NIMERICK
K230B	RESIN SOLUTION K230B	11 NOV 88	101181	1	R. M. HODGE
K235B	CURING AGENT K235B	11 NOV 88	101180	1	R. M. HODGE
L001	IRON STABILIZING AGENT L1	16 JAN 91	012003	3	C. W. CROWE
L005	PHOSPHORIC ACID L5	28 FEB 91	080003	3	D. NESBITT
L006	FORMIC ACID 90% L6	02 NOV 88	080004	3	D. NESBITT
L010	CROSSLINKER L10	25 OCT 88	012009	3	K. E. CAWIEZEL
L022	HYDROXYACETIC ACID L22	28 FEB 91	080005	3	D. NESBITT
L022L	HYDROXYACETIC ACID L22L	28 FEB 91	102532	3	R. M. HODGE
L023	ORGANIC ACID MIXTURE L23	30 NOV 88	101520	2	D. NESBITT
L035	GYPBAN (*) L35 SCALE INHIBITOR	17 OCT 88	062017	3	D. G. HILL
L036	ORGANIC ACID L36	20 AUG 90	010003	3	J. M. WILLIAMS
L041	CHELATING AGENT L41	14 AUG 90	012006	3	C. W. CROWE
L041L	LIQUID IRON CHELATING AGENT L41L	25 OCT 88	000147	3	C. W. CROWE
L042	CLAY STABILIZER L42	20 AUG 90	012017	3	J. M. WILLIAMS
L047	GYPBAN (*) L47 SCALE INHIBITOR	19 SEP 88	012023	3	D. G. HILL
L049	GYPBAN (*) L49 SCALE INHIBITOR	20 AUG 90	012024	3	D. G. HILL
L051	LIQUID CITRIC ACID, 50% L51	29 JUN 89	087010	3	D. NESBITT
L055	CLAY STABILIZER L55	28 FEB 91	012033	3	C. W. CROWE
L056	SCALE REMOVAL AGENT L56	16 JAN 91	012010	3	D. G. HILL
L058	IRON STABILIZER L58	07 OCT 88	100783	3	C. W. CROWE
L059	GYPBAN (*) L59 SCALE INHIBITOR AID	05 NOV 88	100818	3	D. G. HILL
L061	INHIBITED RED FUMING NITRIC ACID L61	08 AUG 89	102408	1	J. A. FREEMAN
L062	IRON STABILIZER L62	15 SEP 88	102488	3	C. W. CROWE
L237	CLAY STABILIZER L237	29 DEC 89	102643	2	C. W. CROWE
L400	STABILIZING AGENT L400	14 AUG 90	012007	3	J. M. WILLIAMS
L401	STABILIZING AGENT L401	14 NOV 88	012008	3	J. M. WILLIAMS
L802	ACETIC ACID (10%) L802	10 MAY 89	101809	3	C. W. CROWE
M002	CAUSTIC SODA FLAKE M2	14 AUG 90	085001	3	D. NESBITT
M003	SODA ASH M3	11 NOV 88	085002	3	D. NESBITT
M004	POTASSIUM PERMANGANATE M4	14 NOV 88	084003	3	D. NESBITT

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M006	SODIUM DICHROMATE M6	27 FEB 91	085003	3	K. H. NIMERICK
M007	ACTIVATOR M7	03 OCT 88	024021	3	K. H. NIMERICK
M008	TRISODIUM PHOSPHATE M8	16 JAN 90	085016	3	D. NESBITT
M009	SODIUM METASILICATE M9	14 NOV 88	085007	3	D. NESBITT
M011	AQUA AMMONIA M11	28 FEB 91	085014	3	D. NESBITT
M013	CHROMIC ACID M13	14 NOV 88	080010	3	D. NESBITT
M014	PERCHLOROETHYLENE M14	14 AUG 90	086004	3	D. NESBITT
M024	PROTECTOZONE (*) M24 ADDITIVE	28 FEB 91	085205	3	K. H. NIMERICK
M026	AMMONIUM PERSULFATE M26	11 NOV 88	084001	3	D. NESBITT
M027	AMMONIUM CARBONATE M27	14 NOV 88	085012	3	D. NESBITT
M038B	SILICATE CONTROL ADDITIVE M38B	28 FEB 91	102074	2	J. L. THOMPSON
M038W	SILICATE CONTROL ADDITIVE M38W	28 FEB 91	022003	3	J. L. THOMPSON
M043	SODIUM NITRITE M43	14 NOV 88	085008	3	D. NESBITT
M045	ANTIFOAM AGENT M45	11 NOV 88	087003	3	J. L. THOMPSON
M046	SODIUM SULFITE M46	11 NOV 88	087005	3	D. NESBITT
M047	MONOSODIUM PHOSPHATE M47	14 NOV 88	085022	3	D. NESBITT
M048	DISODIUM PHOSPHATE M48	11 NOV 88	085015	3	D. NESBITT
M052	NITRIC ACID M52	27 OCT 89	080006	3	D. NESBITT
M054	MUDBAN (*) M54 MUD DISPERSING AGENT	11 NOV 88	062001	3	J. L. THOMPSON
M062	PASSIVATING AGENT M62	23 JUN 88	085017	3	D. NESBITT
M063	SODIUM BROMATE M63	14 NOV 88	085004	3	D. NESBITT
M069	CLEANING AGENT M69	18 NOV 88	082001	3	D. NESBITT
M071	COPPER COMPLEXER M71	28 FEB 91	084006	3	D. NESBITT
M076	BACTERICIDE M76	28 FEB 91	027006	3	B. R. AINLEY
M080	HYDRAZINE, 35% M80	16 OCT 89	047021	3	D. NESBITT
M082	DIETHYLENE GLYCOL M82	18 NOV 88	087004	3	K. H. NIMERICK
M084	METHYLENE CHLORIDE M84	20 SEP 88	086006	3	D. NESBITT
M087	AMMONIUM BICARBONATE M87	18 NOV 88	085011	3	D. NESBITT
M090	SODIUM NITRATE M90	21 NOV 88	085018	3	D. NESBITT
M091	FORMATION CLEANING SOLUTION M91	10 MAY 89	017009	3	C. W. CROWE
M091C	FORMATION CLEANING SOLUTION CONCENTRATE M91C	10 MAY 89	017025	2	C. W. CROWE
M093	SODIUM GLUCONATE M93	21 NOV 88	085005	3	D. NESBITT
M096	CHLOROTHENE VG SOLVENT M96	27 OCT 89	086008	3	D. NESBITT
M117	POTASSIUM CHLORIDE M117	25 OCT 88	067011	3	K. H. NIMERICK
M129.1	OXYGEN SCAVENGER M129.1	20 AUG 90	067068	3	J. M. WILLIAMS
M130	DIVERTING AGENT M130	20 AUG 90	034003	3	J. M. WILLIAMS
M132	AFTER RINSE CONCENTRATE M132	18 NOV 88	085019	2	D. NESBITT
M182	ANHYDROUS TRISODIUM PHOSPHATE M182	18 NOV 88	087013	3	D. NESBITT
M187	STABILIZED FORMALDEHYDE SOLUTION M187	11 FEB 91	082008	3	D. NESBITT
M188	FERRIC ION CORROSION CONTROL AGENT M188	07 OCT 88	085023	1	D. NESBITT
M238	FERRIC ION CORROSION CONTROL AGENT M238	07 OCT 88	100279	2	D. NESBITT
M240	LIQUID PASSIVATING AGENT M240	02 OCT 89	100267	3	D. NESBITT
M246	ANTIFOAM AGENT M246	14 AUG 90	100776	2	D. NESBITT
M263	PMS REDUCING AGENT M263	30 NOV 88	101657	3	J. M. WILLIAMS
M268	ORGANIC CHELANT M268	18 NOV 88	101113	2	D. NESBITT

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M272	CHANNELBLOCK (*) CROSSLINKER M272	11 NOV 88	101226	3	J. M. WILLIAMS
M273	CHANNELBLOCK (*) CROSSLINKER M273	28 FEB 91	101235	3	J. M. WILLIAMS
M275	MICROBIOCIDIC M275	20 AUG 90	101621	3	B. R. AINLEY
M276	COPPER PASSIVATING AGENT M276	25 OCT 88	101860	2	D. NESBITT
M277	SULFIDE SUPPRESSING AGENT M277	14 APR 89	085026	3	D. NESBITT
M278	TRIETHANOLAMINE LFG M278	10 FEB 89	102560	3	D. NESBITT
M279	POTASSIUM PERSULFATE M279	10 FEB 89	102563	3	D. NESBITT
M280	SODIUM PERSULFATE M280	10 FEB 89	102561	3	D. NESBITT
M801	CHEMICAL SEAL RING 300 M801	15 FEB 89	000501	2	D. NESBITT
M812	SULFIDE SCALE REMOVAL SOLVENT 20% M812	27 JUL 88	101162	2	D. NESBITT
N001	CARBON DIOXIDE N1	23 JUL 88	020005	3	B. R. AINLEY
N002	NITROGEN N2	21 JUL 88	020007	3	B. R. AINLEY
N003	NITROGEN N3 (NON-OIL FIELD SALE)	09 NOV 88	101328	3	B. R. AINLEY
P020	SOLVENT P20	20 AUG 90	062008	3	J. M. WILLIAMS
P121	PARAN (*) P121 SOLVENT	14 AUG 90	062005	3	J. M. WILLIAMS
P124	LIQUID PARAFFIN INHIBITOR P124	11 NOV 88	101568	3	D. G. HILL
P125	SOLID PARAFFIN INHIBITOR P125	11 NOV 88	101569	3	D. G. HILL
P126	LIQUID PARAFFIN INHIBITOR P126	11 NOV 88	101580	3	D. G. HILL
P128	PARAFFIN SOLVENT AND DISPERSANT P128	11 NOV 88	102083	2	J. M. WILLIAMS
S001	77% CALCIUM CHLORIDE S1	20 AUG 90	067005	3	R. ROEMER
S002	95% CALCIUM CHLORIDE SPIKE S2	20 AUG 90	067006	3	T. E. HUDSON
S014	12/20 MESH SAND S14	09 JUL 88	025005	3	R. J. PULSINELLI
S016	10/30 MESH SAND S16	09 JUL 88	025006	3	K. H. NIMERICK
S018	16/30 MESH SAND S18	09 JUL 88	025007	3	R. J. PULSINELLI
S020	20/40 MESH SAND S20	09 JUL 88	025008	3	R. J. PULSINELLI
S022	40/70 MESH SAND S22	09 JUL 88	025009	3	R. J. PULSINELLI
S036	8/16 MESH SAND S36	09 JUL 88	025004	3	R. J. PULSINELLI
S041	WATER CONTROL AGENT S41	18 NOV 88	024027	2	B. R. AINLEY
S053	38% LIQUID CALCIUM CHLORIDE S53	10 NOV 88	067007	3	T. E. HUDSON
S054	WELL PACK FLUID S54	10 NOV 88	067022	3	T. E. HUDSON
S059	SINTERED BAUXITE S59	10 NOV 88	025063	3	B. R. AINLEY
S061	ZINC BROMIDE S61	16 AUG 90	067024	3	T. E. HUDSON
S062	CALCIUM BROMIDE CONC S62	10 NOV 88	067025	3	T. E. HUDSON
S063	HEVIWATER (*) IC WELL PACKER BRINE S63	18 NOV 88	000614	3	T. E. HUDSON
S064	HEVIWATER (*) IIC WELL PACKER BRINE S64	14 DEC 90	000617	2	T. E. HUDSON
S065	HEVIWATER (*) IIIC WELL PACKER BRINE S65	18 NOV 88	000618	2	T. E. HUDSON
S071	HEVIWATER (*) IVC WELL PACKER BRINE S71	18 NOV 88	000619	2	T. E. HUDSON
S074	CURABLE S74	09 JUL 88	025065	3	K. H. NIMERICK
S074L	CURABLE LOW-RESIN S74L	09 JUL 88	101722	3	K. H. NIMERICK
S079	30/50 MESH SAND S79	09 JUL 88	025037	3	B. R. AINLEY
S085	40/60 MESH RESIEVED GRAVEL S85	09 JUL 88	025024	3	T. E. HUDSON
S086	20/40 MESH RESIVED GRAVEL S86	09 JUL 88	025023	3	T. E. HUDSON
S087	HEVIWATER (*) 12 BRINE S87	18 NOV 88	100151	3	T. E. HUDSON
S088	SODIUM BROMIDE GRANULAR S88	18 NOV 88	100154	3	T. E. HUDSON
S089	POTASSIUM BROMIDE S89	18 NOV 88	100157	3	T. E. HUDSON

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S090	ISP S90	21 NOV 88	100359	3	B. R. AINLEY
S093	PRECURED S93	09 JUL 88	100798	3	B. R. AINLEY
S095	MEDIUM DENSITY ISP S95	21 NOV 88	101074	3	B. R. AINLEY
S100	70/140 MESH SAND S100	09 JUL 88	025032	3	B. R. AINLEY
S101	ZIRCONATE PROPPANT S101	28 FEB 91	101409	3	B. R. AINLEY
S103	12/20 RESIEVED SAND S103	09 JUL 88	101430	3	T. E. HUDSON
S104	16/20 RESIEVED SAND S104	09 JUL 88	101431	3	T. E. HUDSON
S105	LOW DENSITY ISP S105	10 NOV 88	101463	3	B. R. AINLEY
S108	HIGH STRENGTH S108	09 JUL 88	101723	3	B. R. AINLEY
S112	CALCINED BAUXITE S112	30 NOV 88	101772	3	B. R. AINLEY
S114	PEA SIZE GRAVEL S114	09 JUL 88	025017	3	T. E. HUDSON
S115	16/30 MESH RESIEVED GRAVEL S115	09 JUL 88	101785	3	T. E. HUDSON
S116	50/70 MESH RESIEVED GRAVEL S116	09 JUL 88	101880	3	T. E. HUDSON
S123	LIQUID CURING AGENT S123	31 OCT 88	102173	3	K. H. NIMERICK
S126	40-50 MESH RESIEVED GRAVEL S126	09 JUL 88	102216	3	T. E. HUDSON
S127	PUDDLE-PACK (*) S127 RESIEVED GRAVEL	09 JUL 88	102280	3	T. E. HUDSON
S128	PRECURED LOW RESIN S128	09 JUL 88	102288	3	K. H. NIMERICK
S129	20/40 MESH CURABLE RESIN COATED HSP S129	30 NOV 88	102315	3	K. H. NIMERICK
S130	20/40 MESH CURABLE RESIN COATED ISP S130	30 NOV 88	102339	3	K. H. NIMERICK
S131	FLA (*) 100 RC FLUID-LOSS ADDITIVE S131	09 JUL 88	102442	3	K. H. NIMERICK
S132	10/20 MESH SAND S132	30 NOV 88	102486	3	B. R. AINLEY
S133	ISOPAC (*) S133 LOW-DENSITY PARTICLES	15 MAR 89	102519	1	T. E. HUDSON
T129	TRUCK WASH CONCENTRATE T129	28 SEP 88	101107	3	V. M. LAWSON
T130	LIQUID WAX DRESSING T130	10 JUL 89	005006	3	V. M. LAWSON
T133	CEMENT EQUIPMENT CLEANER T133	23 NOV 88	005007	3	V. M. LAWSON
T134	TRUCK DEGREASER T134	23 NOV 88	005008	3	V. M. LAWSON
U028	GELLING AGENT U28	03 OCT 88	024022	3	K. H. NIMERICK
U042	CHELATING AGENT U42	14 AUG 90	062016	3	C. W. CROWE
U043	SULFAMIC ACID U43	16 OCT 89	080008	3	D. NESBITT
U051	DIESEL OIL U51	14 AUG 90	020002	3	J. GULBIS
U052	KEROSENE U52	01 NOV 89	020003	3	J. GULBIS
U066	MUTUAL SOLVENT U66	06 MAR 91	062004	3	J. L. THOMPSON
U074	DISPERSING AGENT U74	16 AUG 90	013044	2	J. L. THOMPSON
U078	EMULSIFIER U78	21 NOV 88	017019	3	J. L. THOMPSON
U079	MISCIBLE SOLVENT U79	09 JAN 90	017021	3	J. L. THOMPSON
U080	EMULSIFYING AGENT U80	20 AUG 90	017022	2	J. L. THOMPSON
U082	PARAFFIN DISPERSANT U82	20 AUG 90	062007	2	J. L. THOMPSON
U097	MISCIBLE SOLVENT U97	10 NOV 88	101454	3	J. L. THOMPSON
U098	MISCIBLE SOLVENT U98	24 AUG 89	101453	3	J. L. THOMPSON
U099	MISCIBLE SOLVENT U99	14 AUG 90	101451	3	J. L. THOMPSON
U100	MUTUAL SOLVENT U100	20 AUG 90	102236	2	J. L. THOMPSON
U101	ASPHALTENE INHIBITOR U101	30 NOV 88	102363	2	J. L. THOMPSON
U801	NARS 200 NON-ACID REA U801	18 NOV 88	100310	2	C. W. CROWE
U802	NARS 201 NON-ACD REA U802	18 NOV 88	100311	2	C. W. CROWE
U815	MUD REMOVAL SYSTEM U815	14 AUG 90	102237	2	B. R. AINLEY

* 1=DS Controlled, 2=DS Confidential, 3=Non-Restricted (See PRODUCT QUALITY ASSURANCE STANDARD No.1 for additional information)

09-jul-1991

MATERIALS CONTROL
DOWELL SCHLUMBERGER CONFIDENTIAL

11:42:22

PRODUCT SUMMARY WITH MSDS EFFECTIVE DATE

<u>CHEM CODE</u>	<u>PRODUCT NAME</u>	<u>MSDS DATE</u>	<u>ITEM CODE</u>	<u>C.C.*</u>	<u>PRODUCT STEWARD</u>
V600	VERTAN (*) 600 CHELANT V600	25 OCT 88	082004	3	D. NESBITT
V610	VERTAN (*) 610 CHELANT V610	31 OCT 88	062020	3	D. NESBITT
V650	VERTAN (*) 650 CHELANT V650	31 OCT 88	082005	2	D. NESBITT
V661	VERTAN (*) 661 CHELANT V661	10 OCT 88	000805	2	D. NESBITT
V662	VERTAN (*) 662 CHELANT V662	10 OCT 88	000806	2	D. NESBITT
V665	VERTAN (*) 665 CHELANT V665	14 AUG 90	100931	3	D. NESBITT
V675	VERTAN (*) 675 CHELANT V675	14 AUG 90	082006	3	D. NESBITT
V680	VERTAN (*) 680 CHELANT V680	28 NOV 88	000812	2	D. NESBITT
V700	VERTAN (*) 700 CHELANT V700	10 OCT 88	100168	2	D. NESBITT
V710	VERTAN (*) 710 CHELANT V710	10 OCT 88	000811	2	D. NESBITT
W022	NON-EMULSIFYING AGENT W22	23 NOV 88	013017	3	J. L. THOMPSON
W027	NON-EMULSIFYING AGENT W27	21 NOV 88	013022	3	J. L. THOMPSON
W035	EMULSION AND SLUDGE PREVENTER W35	28 FEB 91	013025	2	J. L. THOMPSON
W039	NON-EMULSIFYING AGENT W39	20 AUG 90	013027	3	J. L. THOMPSON
W050	ANTISLUDGING AGENT W50	30 AUG 90	013034	3	J. L. THOMPSON
W053	NON-EMULSIFYING AGENT W53	14 AUG 90	013054	3	J. L. THOMPSON
W054	NON-EMULSIFYING AGENT W54	14 AUG 90	101815	2	J. L. THOMPSON
W055	GENERAL PURPOSE CLEANING AGENT W55	28 SEP 88	087887	3	D. NESBITT
W056	LOW-PH CLEANER W56	03 JAN 89	083025	3	D. NESBITT
W057	HIGH-PH CLEANER W57	03 JAN 89	083026	3	D. NESBITT
W201	FLOCCULANT W201	11 NOV 88	101799	3	D. NESBITT
W202	FLOCCULANT W202	14 NOV 88	101800	3	D. NESBITT
W203	HYDRATED LIME W203	30 NOV 88	083030	3	D. NESBITT
XE67696	XE67696 DEVELOPMENTAL PLUGGING AGENT	22 NOV 88	101795	1	J. M. WILLIAMS
XE67709	XE67709 DEV. GELLING AGENT FOR SPACER	16 JAN 91	102101	1	H. HENDRIKS
XE67727	XE67727 DEV. GRAVEL SUBSTITUTE, 20/40 MESH	25 OCT 88	102430	1	T. E. HUDSON
XE67729	XE67729 DEV. GRAVEL SUBSTITUTE, 40/60 MESH	25 OCT 88	102431	1	T. E. HUDSON
XE67735	XE67735 DEV. HIGH-DENSITY LAMINAR SPACER	16 JAN 91	102556	1	H. HENDRIKS
XE67737	XE67737 DEV. OIL SOLUBLE DIVERTING AGENT	16 MAY 89	102584	1	J. M. WILLIAMS
XE67738	XE67738 DEV. FLUID-LOSS ADDITIVE	14 AUG 89	102588	1	B. BOUSSOURA
XE67742	XE67742 DEVELOPMENTAL CHELANT	03 OCT 89	102622	1	T. D. WILLIAMSON
XE67747	XE67747 DEV. ACID GELLING AGENT	25 JAN 91	102915	1	C. W. CROWE
XE67749	XE67749 DEV. LOW-TEMPERATURE FLUID-LOSS ADDITIVE	15 DEC 91	102919	1	H. HENDRIKS
XE67750	XE67750 DEV. ANTISETTLING AGENT	16 JAN 91	102918	1	F. CALLET
Y001	INTENSIFIER Y1	14 AUG 90	012001	3	J. M. WILLIAMS
Y003	INTENSIFIER Y3	07 JUN 88	012002	3	D. NESBITT
Y006	INTENSIFIER Y6	25 OCT 88	012028	3	J. M. WILLIAMS

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DISCHARGE PLAN APPLICATION

Oilfield Service Facilities

Part VIII. Form (Optional)

Summary Description of Existing Liquid and Solids Waste collection and Disposal. For each waste type listed in Part VII, provide summary information about onsite collection and disposal systems. Information on basic construction features, specific descriptions, and wastewater schematics should be provided as required in the Guidelines. The use of this form is optional, but the summary information requested must be provided.

Waste Type	Tank (T) Drum (D)	Floor Drain (F)/ Sump (S)	Pits- Lined (L) or Unlined (U)	Onsite Injection well	Leach Field	Offsite Disposal
1. Truck Wastes	T1	S1	L1, L2	-	-	1
2. Truck, Tanks and Drum Washing	T2	F1, S1	L1	-	-	1
3. Stream cleaning of parts, equipment, tanks	T1	F1, S1	L1	-	-	1
4. Solvent/Degreaser use	D1	-	-	-	-	2
5. Spent Acids, Caustics, or completion fluids	T1	S1	L1, L2	-	-	1
6. Waste Slop Oil	T2, D4	S1	-	-	-	3
7. Waste Lubrication and Motor Oils	T2, D3	-	-	-	-	3
8. Oil filters	Dumpster	-	-	-	-	4
9. Solids and Sludges from tanks						
Cement	T3	-	-	-	-	5
Sand	T4	-	-	-	-	9
Pit Sludge	D5	-	-	-	-	5
10. Painting Wastes Not applicable						
11. Sewage	-	-	-	-	-	6

Waste Type	Tank (T) Drum (D)	Floor Drain (F)/ Sump (S)	Pits- Lined (L) or Unlined (U)	Onsite Injection well	Leach Field	Offsite Disposal
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12. Other Waste Liquids:

Maintenance Shop
Wastewater

Laboratory
Wastewater

T1

S3,S1,S2

-

-

-

1

Anti-freeze

D6

-

-

-

-

3 or 2

13. Other Waste Solids:

Used Drums

D2

-

-

-

-

7

Used 5-gal
containers

D2

-

-

-

-

7

Contaminated Soil

D5

-

-

-

-

8

DISCHARGE PLAN APPLICATION

Oilfield Service Facilities

Part VII. form (Optional)

Sources and Quantities of Effluent and Waste Solids Generated at the Facility - For each source include types of effluents (e.g. salt water, hydrocarbons, sewage, etc.) estimated quantities in barrels or gallons per month, and types and volumes of major additives (e.g. acids, biocides, detergents, degreasers, etc.). Use of this form is optional, but the information requested must be provided.

Waste Type	General Composition and Source (Solvents from small parts cleaning, oil filters from trucks, etc.)	Volume Per Month (bbl or gal)	Major Additives(e.g. degreaser fluids from truck washing, soap in steam cleaners)
1. Truck Wastes (Describe types of original contents trucked (e.g. brine, produced water, drilling fluids, oil wastes, etc)	Brine Water, Acid, gel from washing inside transports, trucks		soap, acid and gel additives - see attached list
2. Truck Washing (brine water, acid, gel, oil sand, dirt)	Waste materials from truck washing (outer)	1518 BBL	Soap
3. Steam Cleaning of Parts, Equipment, Tanks	Wastewater from steam cleaning		Soap
4. Solvent/Degreaser Use	Safety-Kleen (Naph mineral spirits) from parts cleaning	90 Gal.	None
5. Spent Acids, Caustics or Completion Fluids (Describe)	See 1. above	N/A	N/A
6. Waste Slop Oil	Oil recovered from oil skimmer	40 Gal.	None
7. Waste Lubrication and Motor Oils	Pump packing oil, motor oil, compressor oil	900 Gal.	None
8. Oil filters, Fuel Filters, Air Filters	Oil, fuel and air filters from trucks	Oil - 34 ea. Fuel- 49 ea. Air - 12 ea.	None
9. Solids and Sludges from Tanks (Describe types of materials [e.g. - crude oil tank bottoms, sand, etc.] - sand, resin-coated sand, cement pit sludge	Sand from air slide or sand dumps, excess cement from mud and oil sludge from il separator and acid dock pits	None See attached list	
10. Painting Wastes	None	Not applicable (off site)	None

Waste Type	General Composition and Source (Solvents from small parts cleaning, oil filters from trucks, etc.)	Volume Per Month (bbl or gal)	Major Additives(e.g. degreaser fluids from truck washing, soap in steam cleaners)
11. Sewage (Indicate if other wastes mixed with sewage; if no commingling, domestic sewage under jurisdiction of the NMEID)	Domestic sewage only; No commingling	Not applicable	None
12. Other Waste Liquids (Describe in detail - anti-freeze, maintenance shop washwater, laboratory wastewater)	Spent anti-freeze from trucks, washwater from shop cleaning, wastewater from lab testing	None 1800 Gal.	None
13. Other Waste Solids (Cement, construction materials, used drums - slurry gel, used chemical drums, contaminated soil, oil sorbent)	Excess gel from pumping operations, "empty" drums from chemical storage, soil from clean-up of accidental spills, absorbent material used to clean floors.	Cmt-500 sks drums-190 ea slurry gel-1 bbl Contaminated soil- oil sorbent	None

SECTION 4

SPILL PREVENTION AND CONTROL

A. GUIDELINES FOR DS SPILL CONTAINMENT AND BEST MANAGEMENT PRACTICES PROGRAM

The objectives of these guidelines is to contain and control unexpected discharges of substances which could damage public or private property or adversely affect the environment, air, ground, and surface or subsurface waters, including public-owned treatment works.

1. Diking will be provided for secondary containment of hazardous substances. All diking and other containment devices shall be consistent with sound engineering practices, loss prevention principles and environmental regulations.
2. New facility construction and major facility upgrading shall be designed so that unexpected discharges of hazardous products will be contained on DS property and measures will be taken to prevent it from entering or adversely affecting the environment. Existing facilities will be evaluated and controls devised to contain unexpected discharges.
3. With continued emphasis by government agencies to regulate the management of all phases of hazardous substances and wastes, it is imperative that DS secure proper permits prior to beginning construction of new facilities or making changes to existing facilities. Location facilities with existing environmental permits, or those that have not been required to have permits in the past, may be required to obtain permits prior to changes or modifications.
4. Strong emphasis should be put on drainage, water tables, future growth, sewer availability and capability, and low-profile locations for future siting of DS locations.
5. Written procedures will be developed to document a Spill Prevention Control and Countermeasures (SPCC) and Best Management Practices Program. Records of preventive maintenance, housekeeping and training practices must be kept current at all times.

B. SPILL CONTROL - STORAGE AND DRAINAGE RECOMMENDATION

1. Bulk Liquid Chemical Storage and Mixing Areas (HCl, HF, P121, ZnBr₂), diesel fuel, methanol and all other liquid bulk stored chemicals or additives).

- (a) All bulk liquid chemical storage and hazardous waste tanks shall have a containment system to prevent losses from entering groundwater, soil, navigable waters and sewer systems, or otherwise creating an environmental or a personnel hazard.
- (b) Various types of containment systems have been used in DS. A satisfactory tank-farm containment system will meet the following design criteria.
 - (1) Volume of containment must be 110% of the largest container in the containment not including the volume displaced by tanks and other equipment in the containment.
 - (2) Dike and interior floor must be liquid tight and designed to withstand a full hydrostatic head of the fluid being contained. Materials of construction will have a permeability of 1×10^{-7} centimeters/second or less, which is about 1/10 of an inch per year.
 - (3) Drainage of all fluids from containments must be routed in such a manner to allow for proper testing and treatment prior to any discharge. There will be no openings in the containment system. Annual hydrostatic testing of the containment system will be conducted and documented.
- (c) Bulk chemical tanks requiring fume scrubbers such as HF, HCl or VERTAN* 675 may generate hazardous wastes as a result of the scrubber action. These wastes may be subject to hazardous waste regulations (see No. 7 below).

2. Drummed Product Storage

- (a) Drummed chemicals shall be stored in an area designed to contain a spill that may result from the rupture of a container.
- (b) Sloped and/or curbed concrete slabs provide the best type of containment for storage of these containers. A slope of a minimum of 1% should be incorporated in the design of these slabs.
- (c) Consideration must be given to safe and efficient handling of the containers, collection and removal of spills, and control of rainwater or snow melt runoff.

* Trademark or Service Mark of Dowell Schlumberger

(d) Spills or stormwater runoff shall never be allowed to drain directly into sewer systems or lagoons.

3. Tank Truck/Car Loading and Unloading Facilities

(a) These areas will be designed with a spill containment area for treatment or disposal.

(b) Consideration must be given to containment size (minimum 110% of largest truck). Design will minimize the amount of stormwater entering the containment.

(c) Diversionary systems will be provided if needed to prevent spills from entering sewer system lines.

4. Dry Bulk Product Storage and Handling

(a) Driveways and truck traffic ways must be paved to prevent "fugitive" dust.

(b) Properly designed and operating dust collector is required on any dry product storage or handling system that is loaded or unloaded pneumatically. If excessive dust is generated by mechanical handling equipment, dust collectors on the system will also be necessary. Minimum air flow rate to bag surface area is a 3:1 ratio cu ft/sq ft.

(c) All dry products bagged or in bulk will be handled so that "fugitive" dust does not leave DS property.

5. General Facility Drainage

(a) The yard drainage of a new or modified location facility will be designed to prevent stormwater or chemical spills from directly entering a sewer system or from affecting permanent structures on the facility.

(b) The exit point or points of runoff will be noted on plot plans so that the operator of the facility can develop emergency spill containment plans.

6. Used Motor Oils and Solvents

a) Used oil and used chlorinated solvents must be provided with and stored in separate containers.

(b) Used oils will be recycled where feasible by selling or transferring ownership to a government-approved oil reclaimer.

(c) Used chlorinated solvents.

- (1) Consider local or regional system to reclaim solvent if practical.
- (2) Consider location reclamation system if applicable.
- (3) Transfer ownership to government-approved solvent reclaimer.

7. Wastewater Handling and Disposal

- (a) Acid fume scrubber water and acid transport rinse water.
 - (1) Must never be reused for acid dilution; such reuse is a violation of the DS Quality Assurance Policy.
 - (2) If excess is generated, it may be completely neutralized and disposed of as a nonhazardous waste.
- (b) Truck wash wastewater.
 - (1) Recycle waters only for reuse in truck wash to remove oil and solids.
 - (2) This water (even after treatment) cannot be used for acid dilution; such reuse is a violation of DS Quality Assurance Policy.
 - (3) If excess is generated, after proper treatment, it may be sent to a sanitary sewer system (if allowed by local regulations) or saltwater disposal well.

8. Stormwater

- (a) Minimize uncontaminated stormwater entrance into sewer or lagoon.
- (b) Preference will be given to use public sewer systems for disposal of process area stormwater.
- (c) Cover (roof) all areas having drains connected to sewer system or lagoon or use rain stop valves.
- (d) Design entire facility to direct nonprocess area stormwater away from sewer drains, separator tanks and lagoons.
- (e) Stormwater collected inside diked areas and other chemical process areas will be tested prior to discharge. If contaminated, it will be disposed of in accordance with government permits or as a waste.

(f) Stormwater must be handled in accordance with all government regulations. Permits may be required for discharge to sewer or surface. Contaminated stormwater cannot be discharged to a ditch except as allowed in applicable government permits.

9. General

- (a) Avoid the necessity for surface discharge permits for wastewater by using the public sewer system (if allowed by local regulations) or other waste disposal method.
- (b) Emphasize recycle/reuse of wastewaters and other potential wastes; however, these must never be used in products or services.
- (c) Avoid use of lagoons or ponds for wastewater storage. These may require permits.
- (d) Review adequacy of pretreatment system, neutralization beds, oil and mud separators, etc. These must be inspected weekly for proper functioning; the inspection must be documented.
- (e) Plan a designated empty drum storage area out of sight. Used drums must have bungs in place, and stored in a manner that residual chemicals cannot contaminate the ground or stormwater runoff.

SECTION 13

REPORTING SPILLS

Call the DS EMERGENCY RESPONSE SYSTEM (TELEPHONE NO. (918) 582-0104) immediately if any of the following events occur.

- Any chemical spill, regardless of amount, from transport vehicles, storage facilities or damaged containers.
- Any motor vehicle accident in which there is a chemical spill of any amount or the vehicle is carrying a radioactive source.
- Personnel exposure to chemicals.

AN ER TEAM MEMBER WILL ASSIST IN MAKING THE REQUIRED IMMEDIATE REPORTS TO GOVERNMENT AGENCIES AND THE REQUIRED FOLLOW-UP WRITTEN REPORTS TO THE AGENCIES.

Regulations for reporting spills are constantly changing. Most spills, regardless of quantity, must be reported to some government agency. In many cases, "immediate reporting" and follow-up written reports are required. If spills are not promptly and properly reported, expensive fines and other penalties can result. Individuals are personally liable if spills are not correctly and immediately reported.

1/91

9.5

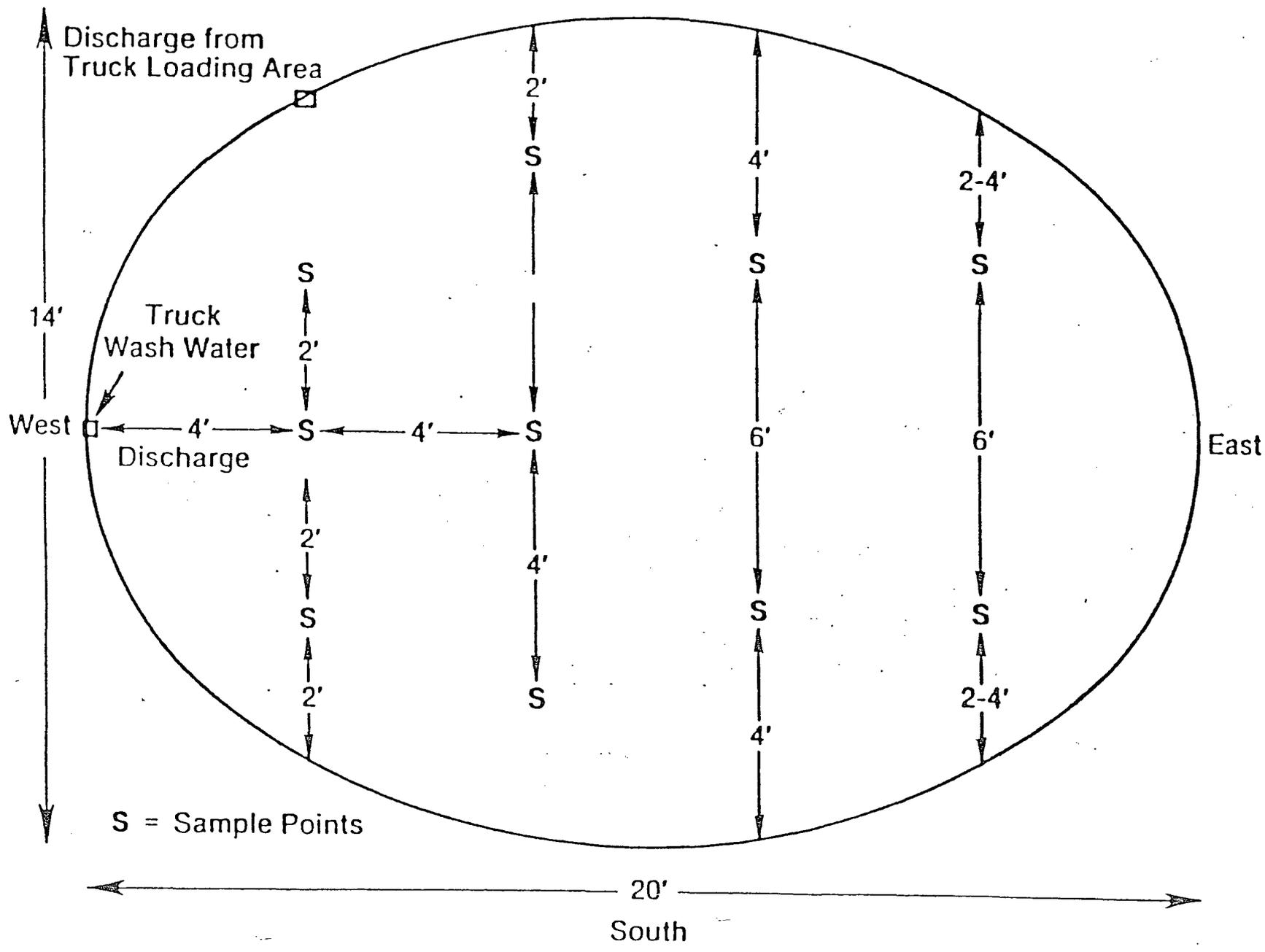
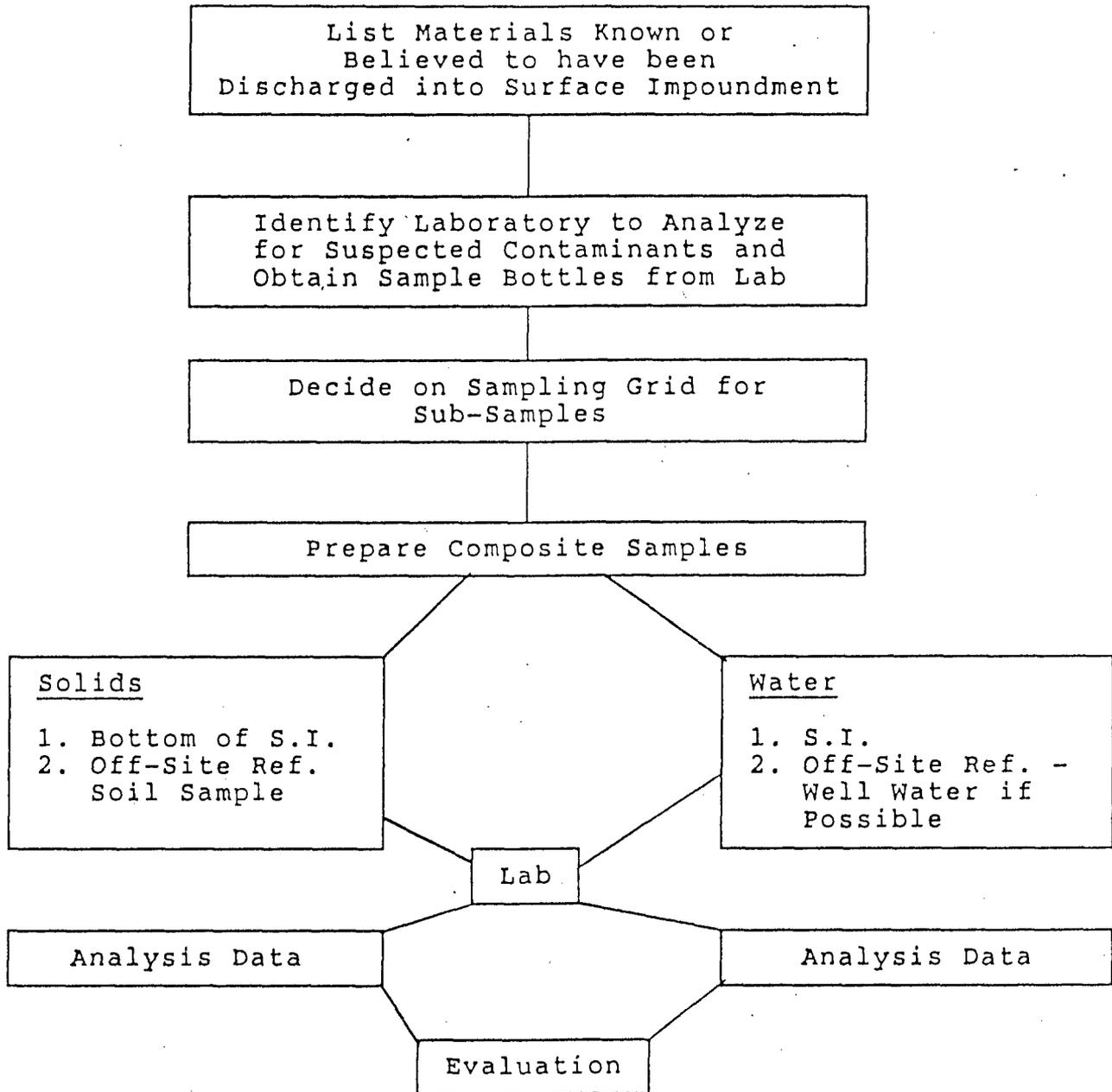


FIGURE 1. EXAMPLE OF SAMPLING GRID

FIGURE 2

FLOW CHART FOR SURFACE IMPOUNDMENT EVALUATION



X & XI

X. INSPECTION, MAINTENANCE & REPORTING

A. See Inspection Report

1. Frequency - weekly
2. Records kept on file at facility for three (3) years.
3. Notification of "OCD" within 24 hrs. of a found leak.

B. Sampling and Analytical Data

1. Frequency - annual
2. Reporting - annual

C. Containment - Offsite Discharge

1. Absorbents placed at known areas of run off from site.
(See A. above)

XI. SPILL/LEAK PREVENTION AND REPORTING PROCEDURES

(see attached)



DOWELL SCHLUMBERGER
INCORPORATED

P.O. BOX 640

HOBBS, NEW MEXICO 88241

DATE: _____
INSPECTOR: _____

FACILITY INSPECTION REPORT

PARKING AREA

- 1. Is area maintained free of recent spills or discharges? YES ___ NO ___
- 2. Are booms properly in place? YES ___ NO ___
- 3. Is the condition of the booms satisfactory? YES ___ NO ___
- 4. Is the security fence in good condition? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

WASTE STORAGE

- 1. Are containers stored closed? YES ___ NO ___
- 2. Are containers maintained in good condition, free of rust dents, bulged, leaks? YES ___ NO ___
- 3. Is accumulation date marked on each container? YES ___ NO ___
- 4. Are containers properly labeled? YES ___ NO ___
- 5. Are contents marked on container? YES ___ NO ___
- 6. Is storage time for hazardous waste within the exemption (< 90 days)? YES ___ NO ___
- 7. Is there adequate aisle space present between drums to allow unobstructed movement for emergency response? YES ___ NO ___
- 8. Are over packs available? YES ___ NO ___
- 9. Is the area maintained free of spills, discharges and stormwater? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

CHEMICAL DRUM STORAGE

- 1. Are drums segregated? YES ___ NO ___
- 2. Are drums placed on pallets? YES ___ NO ___
- 3. Are all drums labeled? YES ___ NO ___
- 4. Are drums maintained in good condition, free of sever rust, bulges, dents, leaks? YES ___ NO ___
- 5. Is there adequate aisle space present between drums to allow unobstructed movement for emergency response? YES ___ NO ___
- 6. Are empty containers sealed? YES ___ NO ___
- 7. Is revetment in satisfactory condition? YES ___ NO ___
- 8. Is area maintained free of spills, discharges and stormwater? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

SLURRY PLANT

- 1. Are all tanks labeled as to contents and hazard? YES ___ NO ___
- 2. Is visible condition of tanks satisfactory? YES ___ NO ___
- 3. Are piping, valves and pumps maintained in good condition free of rust, dents, leaks? YES ___ NO ___
- 4. Is revetment in satisfactory condition? YES ___ NO ___
- 5. Is truck loading area free from spills? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION

COMMENTS:

WAREHOUSE AND HEAD DOCK

1. Is area maintained free of spills, leaks and discharges?

YES ___ NO ___

2. Is there adequate aisle space between pallets to allow unobstructed movement for emergency response?

YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

OIL STORAGE/OIL SEPARATOR

- 1. Is area maintained free of spills or discharges? YES ___ NO ___
- 2. Is oil skimmer maintained in good condition? YES ___ NO ___
- 3. Are used oil and fuel filters properly stored? YES ___ NO ___
- 4. Is revetment in satisfactory condition? YES ___ NO ___
- 5. Are tanks labeled as to contents and hazard? YES ___ NO ___
- 6. Is visible condition of tanks satisfactory? YES ___ NO ___
- 7. Are full waste containers removed from accumulation area? YES ___ NO ___
- 8. Are waste containers stored closed and properly labeled? YES ___ NO ___
- 9. Are valves and pumps maintained free of rust, dents, leaks? YES ___ NO ___
- 10. Is sump pump working? YES ___ NO ___
- 11. Is 180 bbl tank currently adequate? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

SHOP/PAINT STORAGE

- 1. Is area maintained free of spills or discharges? YES ___ NO ___
- 2. Is the capacity of the sump system currently adequate? YES ___ NO ___
- 3. Is Safety Kleen confined to the cleaning station? YES ___ NO ___
- 4. Is paint thinner stored properly? YES ___ NO ___
- 5. Are used batteries being stored properly, i.e. closed, covered and on pallets? YES ___ NO ___
- 6. Are all containers properly labeled? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

FUEL ISLAND

- 1. Are tanks labeled as to contents and hazard? YES ___ NO ___
- 2. Is visible condition of tanks satisfactory? YES ___ NO ___
- 3. Is revetment in satisfactory condition and maintained free of spills and stormwater? YES ___ NO ___
- 4. Is fueling area maintained free of spills? YES ___ NO ___
- 5. Is yard area around fueling facility maintained in good condition and free of evidence of spills or discharges? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

EMERGENCY RESPONSE EQUIPMENT

Are the following items in working order?

- 1. Absorbent booms YES ___ NO ___
- 2. Absorbent pads YES ___ NO ___
- 3. Full face respirators YES ___ NO ___
- 4. S C B A' s YES ___ NO ___
- 5. First aid kit YES ___ NO ___
- 6. 3 gallon sprayer YES ___ NO ___
- 7. Rubber Gloves YES ___ NO ___
- 8. Disposable gloves YES ___ NO ___
- 9. Chemical suits YES ___ NO ___
- 10. Disposable suits YES ___ NO ___
- 11. Disposable boots YES ___ NO ___
- 12. Flash lights YES ___ NO ___
- 13. Shovels YES ___ NO ___
- 14. Rakes YES ___ NO ___
- 15. Communication equipment YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

CONVEYANCE OF ONE-HALF INTEREST IN REAL PROPERTIES
TO SCHLUMBERGER TECHNOLOGY CORPORATION

STATE OF NEW MEXICO :
 :
COUNTY OF LEA :

WHEREAS, pursuant to an Assets Agreement dated as of April 13, 1984, between SCHLUMBERGER TECHNOLOGY CORPORATION ("STC"), a Texas corporation, whose principal place of business is located at 5000 Gulf Freeway, Houston, Texas 77023, and THE DOW CHEMICAL COMPANY ("Dow"), a Delaware corporation, whose principal place of business is located at 2030 Willard H. Dow Center, Midland, Michigan 48640, STC acquired from Dow an undivided one-half (1/2) interest in the "Dowell Business" as described in such Assets Agreement;

WHEREAS, the purpose of this Conveyance is for Dow to convey to STC an undivided one-half (1/2) interest in that part of the assets of the Dowell Business consisting of the real properties situated in the above-named county and described in Exhibit "A" attached hereto;

NOW, THEREFORE, in consideration of the premises and of ONE HUNDRED DOLLARS (\$100.00) cash and other good and valuable consideration, the receipt of which is hereby acknowledged, Dow does hereby GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER and DELIVER unto STC, its successors and assigns, an undivided one-half (1/2) interest in all rights, titles and interests of Dow in and to the properties which are described in Exhibit A, attached hereto and made a part hereof for all

purposes, together with the same one-half interests in all improvements situated thereon; subject, however, to any restrictions, exceptions, reservations, conditions, limitations, contracts, agreements and other matters applicable to such properties. Dow further gives and grants unto STC, its successors and assigns, an undivided one-half (1/2) interest and right in and to all covenants and warranties by others heretofore given or made in respect of such properties, together with the power and right of substitution and subrogation in and to such covenants and warranties.

FOR STC, its successors and assigns, to have and to hold an undivided one-half (1/2) interest in the above-described properties in accordance with the terms hereof.

EXECUTED ON THE DATES OF THE RESPECTIVE ACKNOWLEDGMENTS HEREOF BUT EFFECTIVE as of April 13, 1984.

THE DOW CHEMICAL COMPANY

Attest:

R. W. Barker
Assistant Secretary

e H By W. M. Hancock
Vice President

SCHLUMBERGER TECHNOLOGY CORPORATION

Attest:

Robert F. Briggs
Assistant Secretary

By X [Signature]
Vice President
Legal Department

STATE OF MICHIGAN :
:
COUNTY OF MIDLAND :

The foregoing instrument was acknowledged before me this 17th day of September, 1987, by W. M. Hancock, Vice President of THE DOW CHEMICAL COMPANY, a Delaware corporation, on behalf of the corporation.



Cheryl A. Johnson
Notary Public, Midland County,
State of Michigan.

Name of Notary: CHERYL A. JOHNSON
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
My Commission Expires: MY COMMISSION EXPIRES APRIL 22, 1991

STATE OF TEXAS :
:
COUNTY OF HARRIS :

The foregoing instrument was acknowledged before me this 8th day of October, 1987, by T. Guajalva, Vice President of SCHLUMBERGER TECHNOLOGY CORPORATION, a Texas corporation, on behalf of the corporation.



Ann Reik
Notary Public, Harris County,
State of Texas.

Name of Notary: ANN REIK
NOTARY PUBLIC, STATE OF TEXAS
My Commission Expires: MAY 4, 1991

This instrument prepared by:

Carl Hendrix
Post Office Box 3387
Houston, Texas 77253-3387

LOCATION: Hobbs (Lea County), New Mexico

GRANTOR: Theodore R. Johnson and Irene W. Johnson

GRANTEE: Dowell Incorporated

DOCUMENT NAME: Warranty Deed

DATE: 11-15-55

WHERE RECORDED: Book 191 Page 268

DESCRIPTION: 8.455 Acres

A tract of land situated in the Northeast Quarter of the Northeast Quarter (NE1/4 of the NE1/4) of Section 28 in Township 18 South of Range 38 East of the N. M. P. M., and more particularly described as follows, to wit:

Beginning at a point which lies South 89°59' West 834.8 feet and South 0°2' East 40.0 feet from the Northeast corner of said Section 28 thence South 89°59' West 418.7 feet to a point, thence South 0°2' East 565.8 feet to a point, thence North 89°59' East 883.3 feet to a point, thence North 39°25' West 732.0 feet to the point of beginning, excepting, however, all oil, gas and other minerals located therein and thereunder, containing 8.455 acres,

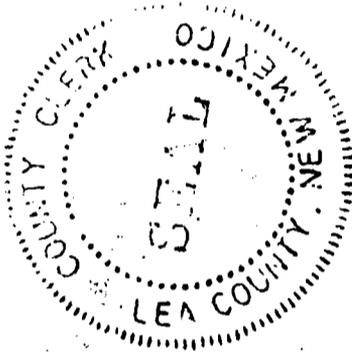
Excepting water rights as vested in College of The Southwest

Subject easements and rights-of-way for the benefits of New Mexico Electric Service Company dated December 28, 1967, and for the benefit of Vernah Scott Moyston dated March 26, 1956.

STATE OF NEW MEXICO
COUNTY OF LEA
FILED

JAN 29 1988

at 12:19 o'clock P M
and recorded in Book _____
Page _____
Shirley Hopper, Lea County Clerk
By *ad* Deputy



21384

c #

Exhibit "A"
Page 1 of 1

MEMORANDUM OF MEETING OR CONVERSATION

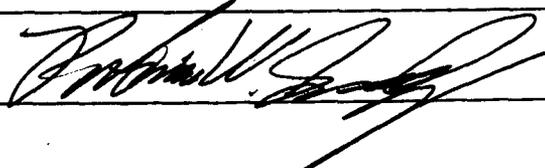
<input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Personal	Time 8:00 AM	Date 9-3-96
---	--------------	-------------

<u>Originating Party</u>	<u>Other Parties</u>
Pat Sanchez - OGD	Mr. John Miller - DS 713-275-8498
<u>Subject</u> DS - Hobbs Facility, Discharge Plan GW-073	

Discussion (1) Made Mr. Miller aware that the DS permit expires on 10-22-96.
(2) Asked about the 1-11-96 letter from Chris E. to D.S. Requesting further work regarding Horiz/Vent. delineation w/ 3/1/96 deadline.

Note: I stressed that they needed to get their Renewal application in this week. (Include application form and 50 \$ filing fee made payable to NMEB - Water Quality Management.)

Conclusions or Agreements (1) Mr. Miller will follow-up on No. (1) above first and get information (i.e. renewal application) in two weeks.
(2) Will follow-up on No. (2) and submit the requested information.

Distribution File, XC-Wayne price. Signed 



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

June 6, 1996

CERTIFIED MAIL

RETURN RECEIPT NO. P-269-269-397

Mr. Darwin Thompson
Dowell Schlumberger Inc.
P.O. Box 640
Hobbs, New Mexico 88240

**RE: MODIFICATION PROPOSAL
(GW-73) DOWELL SCHLUMBERGER HOBBS SERVICE FACILITY
LEA COUNTY, NEW MEXICO**

Dear Mr. Thompson:

The New Mexico Oil Conservation Division has received Dowell Schlumberger, Inc.'s (Dowell) March 11, 1996 request to modify the existing discharge plan for the above referenced facility. The modification request is for replacing the existing cement revetment at the acid loading facility and filling the two sumps, on the north side of the facility, with concrete. Based upon the information provided the modification request is hereby approved.

This modification is considered minor because there will not be any additional discharge or leachate. Therefore, public notice was not issued and there will be no fees.

Please be advised that this approval does not relieve Dowell of liability should their operation result in pollution of surface water, ground water or the environment actionable under other laws and/or regulations. In addition, this approval does not relieve Dowell of responsibility for compliance with other federal, state or local laws and/or regulations.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

RCA/cee
xc: OCD Artesia Office

Dowell Schlumberger Incorporated
P.O. Box 640
Hobbs, New Mexico 88241
(505) 393-6186 (office)

OIL CONSERVATION DIVISION
RECEIVED

1996 MAR 15 AM 8 52

Dowell Schlumberger
PO Box 640
Hobbs, New Mexico 88240

*Verbal Granted
4-24-96
@ 10:50 AM
to Darwin
CS*

March 11, 1996

Chris Eustice
Oil Conservation Division
Environmental Bureau
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: Proposed change to existing discharge plan

Dear Chris,

We are proposing a change in the SPCC discharge plan for the facility located at 1105 West Bender in Hobbs, NM. The changes will involve replacing the existing cement revetment at the Acid Loading facility with new revetments. These revetments will be constructed of .250 inch thick steel painted with polyurethane paint. They will be 29 feet long, 14 feet wide, and 2 feet tall and will be installed above ground on a cement slab. There will be four of these revetments all interconnected together. The combined volume of these four revetments will be 24, 292 gallons, this exceeds 133% of the 15,000 gallon tank which is to be installed inside these revetments. The tanks to be installed in the revetments will contain hydrochloric acid.

We are also proposing to close the two underground sumps located immediately North of the current loading facility. We would propose to fill the sumps with cement.

We will then install an above ground loading ramp made of reinforced .250 inch thick steel in place of the underground sumps. This ramp will have a 12 inch by 12 inch by 4 inch deep sump to collect any drips from the loading process or rain runoff.

We will also be replacing some of the chemical tanks and piping and upgrading the fume collection system to collect the fumes generated during the truck loading process.

If there are any questions regarding this proposal please contact the following:

Darwin Thompson at (505) 393 6186.

Sincerely,

Darwin Thompson
Maintenance Supervisor

D/S Hotbs Summary

origin

date

why

D/S

7-15-91

DP applic

OCD

9-26-91

request for supplemental info
also requested closure of pit or concrete sump
oil stained soils must be cleaned

D/S

10-9-91

response to above correspondence

OCD

10-22-91

approval

D/S

9-10-93

submit closure plan for sumps

OCD

11-3-93

approval for closure; requested
investigation report

D/S

12-17-93

early investigation report (informal)

D/S

2-10-94

Closure Report and request to move
excavated materials to Utah

OCD

3-1-94

OCD approves disposal & asks D/S
to submit work plan and schedule to remediate

OCD

3-21-94

Wayne inspects D/S

D/S

6-3-94

Submits work plan for Soil vapor extrac

OCD

9-28-94

Approves WP, must delineate extent, ^{Approves} SVE pilot test

D/S

2-3-95

Submits closure report

OCD

4-18-95

Approves WP for delineation and SVE installation

D/S

5-10-95

Submits detailed work schedule

D/S

6-2-95

Submits revised work schedule

D/S

12-5-95

submits delineation report

OCD

1-11-96

Ask for further delineation

Dowell Schlumberger Incorporated
P.O. Box 640
Hobbs, New Mexico 88241
(505) 393-6186 (office)

APRIL 6, 1994

Mr. Roger Anderson
Environmental Bureau Chief
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87504

Re: Discharge Plan (GW-73) Violation
Dowell Schlumberger Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Anderson:

In response to a letter dated March 29, 1994; Dowell Schlumberger, Inc. - Hobbs, New Mexico agrees not to use a Class II injection well for nonexempt wastewater disposal.

Currently we are only generating truck washwater requiring offsite disposal. This is being discharged into the Hobbs City Sewer System in accordance with City Ordinance Number 613.

Presently the discharge plan is being revised to reflect current operations at the site. This will be forwarded to you as soon as it is complete.

Sincerely,



Lynn Northcutt

CC: Elani Gray
John Miller
Wayne Price



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

March 29, 1994

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-308

Mr. John A. Miller
Environmental Remediation Manager
Dowell Schlumberger Inc.
P.O. Box 4378
Houston, Texas 77210-4378

**RE: DISCHARGE PLAN (GW-73) VIOLATION
DOWELL SCHLUMBERGER HOBBS SERVICE FACILITY
LEA COUNTY, NEW MEXICO**

Dear Mr. Miller:

On October 22, 1991, the ground water discharge plan, GW-73 for the Dowell Schlumberger (D/S) Incorporated Hobbs Service Facility was approved by the Director of the Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved under the specific terms and conditions as stated in the plan. Section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan".

The discharge plan GW-73 specifies that wastewater generated at your Hobbs Service Facility will be disposed of offsite at Control Recovery Inc. (CRI), an OCD permitted disposal facility. During a recent inspection the OCD Hobbs Office discovered that D/S has been disposing of their non-exempt wastewater at a Class II injection well. In addition to being a violation of your discharge plan, this disposal activity is in violation of statutes under the New Mexico Oil and Gas Act and federal regulations under Part C of the Safe Drinking Water Act.

The OCD requires D/S to cease disposal of wastewater generated at your Hobbs Service Facility at any Class II injection well immediately upon receipt of this letter and to resume disposal as

Mr. John A. Miller
March 29, 1994
Page 2

specified in your approved discharge plan. Please submit documentation by April 8, 1994 to the OCD confirming that the required actions have been performed.

If you have any questions concerning authorized disposal options, please contact Kathy M. Brown at (505) 827-5884.

Sincerely,

A handwritten signature in cursive script that reads "Roger C. Anderson". The signature is written in dark ink and is positioned above the typed name and title.

Roger C. Anderson
Environmental Bureau Chief

RCA/kmb

xc: Wayne Price, OCD Hobbs Office



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

BRUCE KING
GOVERNOR

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

NMOCD Inter-Correspondence

To: Roger Anderson-Environmental Bureau Chief
From: Wayne Price-Environmental Engineer District I *Wayne Price*
Date: March 21, 1994

Reference: Schlumberger-Dowell Hobbs Yard GW-73

Subject: 1. **Site inspection-follow up on acid neutralization system closure plan:**
2. **Discharge Plan Violation of Permit Conditions:**

Comments:

1. After reviewing the closure report and making an on-site inspection, I have the following recommendations.
 - A. Due to the presence of the old unlined pit I think the delineation of the contamination should be verified by more soil borings or a monitor well. I recommend that an audit be preformed to reconcile which chemicals we should be looking for. My reasoning for this is that field sampling and testing revealed negative test on soil-water extraction using the PID, but the water has an olfactory smell of chemical contaminate possible from some water base chemical or water soluble chemical used previously in their process.
 - B. This site is up-gradient of several water wells owned by the city of Hobbs; however the closest is about one mile, this one being up-gradient,



the others are approximately two miles.

I feel the close proximity to the city and to ground water should be a major concern. There is known ground water contamination due west about one mile, this is the old Oil Windmill Co. area and approximately one block to the southeast there is a known UST site (Shell gas station) that was leaking.

2. During my inspection it was discovered that Dowell-Schlumberger was disposing of their non-exempt waste from their operations at the Goodwin Treating Plant Disposal Well #31 operated by Petro-Thermo Corporation, which also provided the transportation for disposal.

After confirming with Dowell personnel that this waste is indeed non-exempt, I obtained copies of their disposal tickets and a copy of their discharge plan.

It appears that the discharge plan indicated that this waste is to be disposed of at CRI. After discussions with Bill Olson, I discovered that both Petro-Therm and Dowell had been warned verbally by your office to stop this activity. Therefore this district has issued a letter to Petro-therm to stop hauling and/or accepting this type of waste to the Goodwin disposal well. This letter is attached for your review.

I recommend that a letter be sent by your office or the Districts's under your direction to put Dowell on notice for such activity.

Please note, Dowell personnel have been extremely cooperative and have plans to correct the situation in the immediate future.

cc: Jerry Sexton-District I Supervisor

Attachments-1



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

BRUCE KING
GOVERNOR

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

Petro-Thermo Corporation
P.O. Box 2069
Hobbs, New Mexico 88241-2069
Attention: Mr. Robert W. Abbott

Reference: Goodwin Treating Plant and Agua, Inc. Salt Water
Disposal Well #31 unit 1tr E; SEC 31-T18S-R37E;

Dear Mr. Abbott,

Please be advised that certain disposal practices has been brought to the attention of the New Mexico Oil Conservation Division, that certain non-exempt waste waters are being delivered to your Goodwin Treating Plant and Salt Water Disposal (SWD) Well located as indicated in the above referenced note.

Therefore please be advised that you could be in violation of the New Mexico Oil and Gas Act NMSA 1978 Chapter 70 and the "Underground Injection Control" Program herein referred to as UIC Program promulgated under Part C of the "Safe Drinking Water Act" a Federal Law listed in part under the Federal Regulations 40 CFR Ch.1 (7-1-88 edition) Parts 144 thur 147.

You are hereby ordered to cease and desist in any and all activities that violate the above regulations.

Please find enclosed the following articles to aid you in your future operations:

1. Fed. Reg. vol 58 # 53 Monday March 22, 1993 Rules and Regulations - Clarification of the Regulatory Determination for Waste From the Exploration, Development and Production of Crude Oil, Natural Gas and Geothermal Energy-EPA;



2. Delegation of Authority Oilfield E & P Operations;
3. Pages 616,617,618,619,620,621,726, and 727 of the 40 CFR Parts 100-149 July 1, 1988. These articles are for your reference, please specifically note on page 617 144.6 (b) class II wells are defined:
- (b) CLASS II. Wells which inject fluids:
- (1) Which are brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production and may be commingled with waste waters from gas plants which are an integral part of production operations, unless those waters are classified as a hazardous waste at the time of injection.
 - (2) For enhanced recovery of oil or natural gas; and
 - (3) For storage of hydrocarbons which are liquid at standard temperature and pressure.

If you have any question please don't hesitate to call or write this agency at the address or telephone number listed above.

Sincerely,



Jerry Sexton-New Mexico Oil Conservation Division
District I Supervisor

cc:LWP/JS Wayne Price-Environmental Engineer District I

Attachments-3



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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

December 1, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-078

Mr. John A. Miller
Environmental Coordinator
Dowell Schlumberger Inc.
P.O. Box 4378
Houston, Texas 77210-4378

**RE: APPROVAL TO REPLACE SUMP
HOBBS SERVICE FACILITY (GW-73)
LEA COUNTY, NEW MEXICO**

Dear Mr. Miller:

The New Mexico Oil Conservation Division (OCD) has received your November 29, 1993, amended request to replace the sump at your Dowell Schlumberger Inc. (Dowell) Facility in Hobbs, New Mexico. The original request dated November 9, 1993, and prepared by Western Water Consultants, Inc. on behalf of Dowell, proposed the installation of a concrete sump with secondary containment. The amended request is for the installation of two high density polyethylene tanks with one tank being placed inside the other for double containment and leak detection. The above document includes the plan and specification for the revised replacement sump.

Based on the information supplied in the request, the OCD hereby approves the installation of the sump under the following conditions:

1. Leak Detection Schedule: The leak detection system will be checked at a minimum of weekly. The date of inspection, results, and inspectors initials will be recorded, kept at the facility and available for OCD inspection.

Mr. John Miller
December 1, 1993
Page 2

2. Leak Notification: Any leaks or overflows will be reported to the OCD within 24 hours of discovery.

Please be advised OCD 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 contact me at (505) 827-5884.

Sincerely,



Kathy M. Brown
Geologist

xc: Jerry Sexton, OCD Hobbs Office

Dowell Schlumberger Incorporated
P.O. Box 4378
Houston, Texas 77210-4378
(713) 275-8400

RECEIVED
OIL CONSERVATION DIVISION
DECEMBER
1993 DE 1 4 AM 9 03

November 29, 1993

Mr. Roger Anderson
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504

RE: Amended Request for approval to replace a sump at the Dowell Schlumberger Incorporated facility in Hobbs, NM

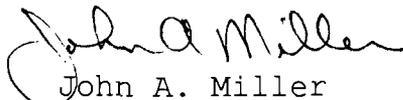
Dear Mr. Anderson:

This letter is an amended request for the installation of a collection sump at the above referenced facility. In November 9, 1993 letter to you from Western Water Consultants, Inc. (WWC), a request was made for approval and authorization for the installation of a concrete replacement sump. This letter contains the plans and specification of a revised replacement sump and a request for your approval and authorization to proceed.

Changes in the site operations at the Dowell Hobbs facility will not require a collection sump with the previous specifications. All acid heels will now be handled directly from Dowell trucks to tankage using a double diaphragm pump rather than the sump transfer system. This new system design will require only a rainwater collection sump which is specified in the attached specifications and plans. The new sump will consist of a two high density polyethylene tanks, with one tank being placed inside the other for double containment and leak detection.

Work is scheduled to begin at this site on December 6, 1993. Sump replacement will occur later that same week. Therefore, your earliest review and comment would be greatly appreciated. If you have any questions or comments please contact me at (713) 275-8498.

Sincerely,



John A. Miller
Environmental Coordinator

cc: Kathy Brown, NMOCD, Santa Fe
Jerry Sexton, NMOCD, Hobbs
WWC, Laramie

ATTACHMENT A

Serving Our Clients Since 1980

WESTERN WATER CONSULTANTS, INC.

Engineering • Hydrology • Hydrogeology • Waste Management • Construction Administration

611 SKYLINE ROAD, P.O. BOX 4128 • LARAMIE, WYOMING 82071 • (307) 742-0031 • FAX (307) 721-2913

November 9, 1993

RECEIVED

NOV 15 1993

OIL CONSERVATION DIV.
SANTA FE

Mr. Roger Anderson
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504

RE: Request for approval to replace an acid heels sump at the Dowell Schlumberger Incorporated facility in Hobbs, NM
WWC JN 3007

Dear Mr. Anderson:

This letter, submitted on behalf of Dowell Schlumberger Incorporated (Dowell), is in response to Condition 4. of the November 3, 1993 letter from Ms. Kathy Brown of your office providing authorization to proceed with an acid neutralization system closure at the referenced facility. The concrete sump referenced in the approved closure plan is an operational unit and will have to be replaced immediately after closure operations. Pursuant to Condition 4., plans and specifications for the sump replacement are attached for your review and approval. The sump design meets or exceeds all requirements of the NMOCD "Guidelines for the Selection and Installation of Below-grade Produced Water Tanks", revised 10/91.

Closure operations are scheduled to begin at this site on December 6, 1993. Sump replacement is anticipated to begin later that same week. Therefore, your earliest review and comment would be greatly appreciated. Please do not hesitate to contact me or Mr. John Miller with Dowell if you have any questions or comments.

Sincerely,



Susan Fields, P.E.
Environmental Manager

SF/jb

Enclosure

cc: Kathy Brown, NMOCD, Santa Fe
Jerry Sexton, NMOCD, Hobbs
John Miller, Dowell

File: 3007-A

OTHER LOCATIONS

1949 SUGARLAND DRIVE, SUITE 134
SHERIDAN, WYOMING 82801
(307) 672-0761
FAX (307) 674-4265

701 ANTLER DRIVE, SUITE 233
CASPER, WY 82601
(307) 473-2707
FAX (307) 237-0828

SECTION 03301 - REINFORCED CONCRETE

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Work necessary for furnishing and placing reinforced concrete, complete.

1.2 SUBMITTALS

- A. Product Data: Furnish the following:
 - 1. Curing compound data and manufacturer's application instructions.
- B. Quality Control Submittals: Furnish the following:
 - 1. Complete data on the concrete mix in accordance with ASTM C94, Alternate 2.
 - 2. Ready Mix delivery tickets for each truck with the following information:
 - a. Name of concrete firm.
 - b. Serial number of ticket.
 - c. Date.
 - d. Truck number.
 - e. Specific class of concrete.
 - f. Amount of concrete.
 - g. Time loaded.
 - h. Water added.
 - i. Time unloaded.

PART 2 - PRODUCTS

2.1 CONCRETE

- A. Ready-mixed meeting ASTM C94, Alternate 2, and these Specifications.
- B. Portland Cement: Type II with a cement to pozzolan ratio of 5:1
- C. Mix Design:
 - 1. Minimum Allowable 28-Day compressive Field Strength: 4,000 psi when cured and tested in accordance with ASTM C31 and C39.
 - 2. Coarse Aggregate Size: 3/4-inch nominal maximum size. Other aggregate gradations must be submitted for review and approved in writing before use on the project.
 - 3. Slump Range: 3 to 5 inches.

4. Air Entrainment: Between 4.0 percent and 8.0 percent by volume.
5. Water-cement ratio shall not exceed 0.45.

D. Mixing: Minimum 70 and maximum 270 revolutions of mixing drum. Nonagitating equipment is not allowed.

2.2 REINFORCING STEEL

- A. ASTM A615, Grade 60, deformed bars of sizes shown.
- B. Provide concrete blocks of same strength as concrete mix to support reinforcing bars. Do not use broken concrete, brick, or stone.

2.3 EXPANSION JOINT FILLER

- A. ASTM D994, 1/2-inch thick, or as shown.

2.4 NONSHRINK GROUT

- A. Manufacturer:
 1. UPCO Co., Upcon High Flow.
 2. Master Builder Co., Master Flow 713.
 3. L & M Construction Chemicals, Inc., Crystex.
 4. Or equal.

2.5 FORMS

- A. Use new plywood for exposed areas, and new shiplap or plywood for unexposed areas. Materials shall produce tight forms and an acceptable finish.

2.6 FORM TIES

- A. On exposed surfaces locate in uniform pattern or as shown.
- B. Form Tie Design:
 1. Construct so tie remains embedded in the wall, except for a removable portion at each end.
 2. Provide fixed conical or spherical type inserts that remain in contact with forming material.

3. Construct so no metal is within 1 inch of concrete surface when forms, inserts, and tie ends are removed.
4. Ties shall withstand all pressures and limit deflection of forms to acceptable limits.
5. Flat bar ties for panel forms shall have plastic or rubber inserts with a minimum depth of 1 inch and sufficient dimensions to permit proper patching of the tie hole.

PART 3 - EXECUTION

3.1 FORMS

A. Construction:

1. Accurate to dimensions and elevations required and strong and unyielding.
2. Make joints tight to prevent escape of mortar and to avoid formation of fins.
3. Brace as required to prevent distortion during concrete placement.

B. Form Removal

1. Remove after concrete has obtained 50% of the specified 28-day strength or approval is obtained in writing from Engineer.
2. Remove forms with care to prevent scarring and damaging the surface.

3.2 PLACING REINFORCING STEEL

A. Place reinforcing steel as shown and in accordance with CRSI Recommended Practice for Placing Reinforcing Bars, except as modified herein.

B. Splices and Laps:

1. Top Bars: Defined as any horizontal bar placed such that 12 inches of fresh concrete is cast below in any single pour.
2. Horizontal wall bars are considered top bars.
3. Lap top bars 42 diameters or minimum 24 inches.
4. Lap all other bars 30 diameters or minimum 18 inches.
5. Tie splices with 18-gauge annealed wire as specified in CRSI Standard.

3.3 PLACING CONCRETE

A. Meet ACI 301, except as modified herein.

B. Prior to placing concrete, remove water from excavation and debris and foreign material from forms. Check reinforcing steel for proper placement and correct any discrepancies.

- C. Before depositing new concrete on old concrete, clean surface using sandblast or bushhammer or other mechanical means to obtain a 1/4-inch rough profile, and pour a cement-sand grout to minimum depth of 1 inch over the surface. Proportion cement and sand as in the concrete mix.
- D. Place concrete as soon as possible after leaving mixer, without segregation or loss of ingredients, without splashing forms or steel above, and in layers not over 2 feet deep. Place within 1 - 1/2 hours after adding cement to mix.
- E. Maximum Vertical Drop to Final Placement: 8 feet.

3.4 PLACING CONCRETE IN HOT WEATHER

- A. Prepare ingredients, mix, place, cure, and protect in accordance with ACI 305 and as specified herein.
- B. Admixtures: Use in such quantities as recommended by the manufacture to ensure concrete is workable, and lift lines will not be visible in architectural concrete finishes.
- C. Concrete Temperature:
 - 1. Maintain below 80 degrees F at time of placement of prove by trial mixes on jobsite that placement using superplasticizers will work up to a temperature of 90 degrees F.
 - 2. Ingredients may be cooled before mixing or a superplasticizer as specified added to allow placement with concrete temperature up to 90 degrees F when proven on the jobsite to produce effective and acceptable results.
 - 3. Concrete thermometers will be used as the basis for acceptance or rejection of concrete.
 - 4. Make provisions for windbreaks, shading, fog spraying, sprinkling, or wet cover, when necessary.
 - 5. Evaporation Retardant: Apply per manufacturer's requirements.

3.5 PLACING CONCRETE IN COLD WEATHER

- A. General:
 - 1. Do not place concrete when ambient temperature is below 40 degrees F or approaching 40 degrees F and falling, without special protection as specified or as approved by the Engineer.
 - 2. Do not place concrete against frozen earth or ice, or against forms and reinforcement with frost or ice present.
- B. Curing and Protection:
 - 1. Maintain temperature of concrete above 50 degrees for a minimum of 7 days.
 - 2. Meet requirements and recommendations of ACI 306 and ACI 301, and these Specifications.

3. Strength requirements may require additional protection and curing during cold weather due to delayed field strength gain.

3.6 COMPACTION

A. Vibrate concrete as follows:

1. Apply approved vibrator at points spaced not farther apart than vibrator's effective radius.
2. Apply close enough to forms to vibrate surface effectively but not damage form surfaces.
3. Vibrate until concrete becomes uniformly plastic.
4. Vibrator must penetrate fresh placed concrete and into previous layer of fresh concrete below.

3.7 CONSTRUCTION JOINTS

A. Locate as shown or as approved.

B. Maximum Spacing Between Construction Joints: 40 feet.

3.8 FINISHING

A. Floor Slabs and Tops of Walls:

1. Screed surfaces to true level planes.
2. After initial water has been absorbed, float with wood float and trowel with steel trowel to smooth finish free from trowel marks.
3. Do not absorb wet spots with neat cement.

B. Unexposed Slab Surfaces: Screed to true surface, bull float with wood float, and wood trowel to seal surface.

C. Tolerances: Floors shall not vary from level or true plane more than 1/4 inch in 10 feet when measured with a straightedge.

D. Exterior Slabs and Sidewalks:

1. Bull float with wood float, wood trowel, and lightly trowel with steel trowel.
2. Finish with broom to obtain nonskid surface.
3. Finish exposed edges with steel edging tool.

3.9 FINISHING AND PATCHING FORMED SURFACES

A. Areas Not Subject to Water:

1. Cut out honeycombed and defective areas.
2. Cut edges perpendicular to surface at least 1-inch deep. Do not feather edges.
3. Patch using bonding agent; fill holes flush with cement mortar composed of 1 part cement and 2 parts sand.
4. Rub surface with wood float and burlap.
5. Keep patches damp for minimum 7 days or spray with curing compound to minimize shrinking.
6. Fill form tie holes in same manner.

B. Areas Subject to Water:

1. Remove forms, knock off fins or projections from surface of exposed areas, and rub surfaces with wood float or burlap sack to provide uniform surface texture.
2. Cut out honeycombed and defective areas.
3. Cut edges, perpendicular to surface at least 1-inch deep. Do not feather edges.
4. Soak area to be patched for 24 hours, then allow surface to drain free of standing water.
5. Patch with specified color matched nonshrink grout.
6. Cure grout as recommended by grout manufacturer.

3.10 PROTECTION AND CURING

- A. Protect fresh concrete from direct rays of sunlight, drying winds, and wash by rain.
- B. Keep concrete slabs continuously wet for a 7-day period. Intermittent wetting is not acceptable.
- C. Cure formed surfaces with an approved curing compound applied in accordance with manufacturer's directions as soon as forms are removed and finishing completed.

3.11 FIELD TESTS

A. Evaluation of Concrete Field Strength:

1. Owner may have test cylinders taken and tested by an approved testing laboratory to verify concrete strength.
2. Acceptance and Evaluations of Concrete Strengths: In accordance with ACI 301.

END OF SECTION

SECTION 06610 - FIBERGLASS REINFORCED PLASTIC (FRP) FABRICATION

PART 1 - GENERAL

1.1 WORK INCLUDED

Furnish and install FRP fabrication work as shown on the Drawings and as specified.

1.2 REFERENCES

Materials and operations to comply with latest edition of codes and standard listed in:

ASTM D-625, E-84.

1.3 SUBMITTALS

- A. Design calculations showing selection of structural shapes, load deflections, and anchorage.
- B. Submit shop drawings for fabrication and erection of assemblies. Include plans and elevations at minimum 1-inch to 12-inch scale, and include details for sections and connections at minimum 3-inch to 12-inch scale. Show anchorage and accessory items.

PART 2- PRODUCTS

2.1 STRUCTURAL SHAPES

- A. Structural shapes shall be Extren Series 625 as manufactured by Fibergate Corporation, Dallas, Texas, or Creative Pultrusions, Inc., Alumbank, PA, or acceptable equivalent.
- B. All structural shapes shall meet the following requirements:
 - 1. UL listed (yellow card) having a UL94VO rating with a 'UV' inhibitor added to resin.
 - 2. A polyester surfacing veil shall be used on all external surface to enhance corrosion resistance and weathering.

2.2 GRATING

- A. Fiberglass grating shall be Fibergate Safe-T-Span, pultruded grating 1½" high K Series 400 as manufactured by AFC, Chatfield, Minnesota, or acceptable equivalent.

- B. The resin matrix shall be vinyl ester resin with a polyester surfacing veil wrap over the continuous strand mat meeting Class I flame spread rating of ASTM E-84 and self-extinguishing requirements of ASTM D-625.
- C. Color shall be gray. Product is to be used outdoors with a UV coating applied.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. All cut edges and holes shall be sealed with a resin compatible with the resin matrix used in the structural shape and grating.
- B. The fabricator and contractor shall exercise precautions necessary to protect the fiberglass pultruded structural shapes and grating from abuse to prevent breakage, nicks, and gouges, during fabrication, handling, and installation.
- C. Structural shapes and grating shall be fabricated and assembled in accordance with the manufacturer instructions.

END OF SECTION

SECTION 07114 - HIGH DENSITY POLYETHYLENE (HDPE)

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. This section covers the work necessary to furnish and install the flexible membrane liner in the collection sump along with field-fabricated boots. The intent of this Specification is to provide a watertight liner at the completion of the work.
- B. The work includes furnishing all labor, supervision, tools, construction equipment, and materials necessary to install the flexible membrane liner described by these Specifications and Drawings.

1.2 WARRANTY

- A. The membrane manufacturer and installer shall warrant the material, installation, and seams for a period of 20 years against defects or failure due to exposure to weather. This warranty shall be submitted with the Proposal for approval, and shall state all conditions and exclusions.

1.3 SUBMITTALS TO THE ENGINEER AFTER CONTRACT AWARD

- A. General:
 - 1. The Contractor shall submit complete material specifications, descriptive drawings, and literature.
 - 2. The Contractor shall submit factory test results of materials certified by the membrane manufacturer as being similar and showing conformance with the requirements of these Specifications. In addition, the Contractor shall submit the manufacturer's certification stating that the material proposed is similar and of the same formulation as that for which test results are submitted and which by actual usage has been demonstrated to be satisfactory for the intended applications.
- B. Before commencing the work specified under this section, and prior to ordering the membrane material, the Contractor shall submit to the Engineer for approval all installation Drawings, procedures, and a schedule for carrying out the work.

1.4 MANUFACTURER'S SERVICES

- A. The membrane manufacturer's representative shall inspect the surface of the sump on which the liner is to be placed for acceptability. The representative shall also provide onsite technical supervision and assistance at all times during the installation of the membrane. The manufacturer's representative shall furnish the Engineer with certification that the membrane was installed in

substantial accordance with these Specifications, Drawings, and submittals approved by the Engineer.

PART 2 - PRODUCTS

2.1 FLEXIBLE MEMBRANE

- A. The flexible membrane shall consist of new, first-quality products designed and manufactured specifically for the purpose of this work, which shall have been satisfactorily demonstrated by prior use to be suitable and durable for such purposes. The flexible membrane shall be an unmodified high density polyethylene (HDPE) containing no plasticizers, fillers, chemical additives, reclaimed polymers, or extenders. Approximately 2 percent carbon black shall be added to the resin for ultraviolet resistance. The flexible membrane shall be supplied as a single-ply continuous sheet with no factory seams. The liner system shall be as manufactured, furnished, and installed by Schlegel Lining Technology, Inc., Gundle Lining Systems, Inc., or approved equal. Typical physical properties of the HDPE cover are described below.

<u>Property</u>	<u>Test Method</u>	<u>Value</u>
Thickness, inches (minimum)	ASTM D374, Para 6.2.4	0.080
Density g/c.c (minimum)	ASTM D1505	0.94
Smooth Sheet		
Tensile Stress @ Yield, lbs/sq. in. width	ASTM D638	190
Elongation @ Yield, %	ASTM D638	15,±3
Tensile Stress @ Break, lbs/sq. in. width	ASTM D638	320
Elongation @ Break, %	ASTM D638	Greater than 700
Puncture Resistance, lbs	FTMS 101B Method 2031	350
Tear Resistance, lbs	ASTM D1004 Die C	60
Coefficient of Linear Thermal Expansion inches/degree C	ASTM D696	1.2 x 10 ⁻⁴

Dowell Schlumberger Incorporated
November/1993

High Density Polyethylene (HDPE)
07114-2

Bonded Seam Strength
Tensile and Peel, min.

ASTM D882
and ASTM F88
strength

90% of parent
material

Brittleness Temperature
(Proc. B)

ASTM D746

-70 degrees F,
no cracks

Water Absorption,
Max % Weight Change/Adap.

ASTM D570

0.085 max.

2.2 BOOTS

- A. Structures penetrating the membrane liner shall be sealed to the membrane with field-fabricated boots. The field-fabricated boots shall be made to seal around the penetration without folds. The flange portion of the boot shall match the sump wall, be sealed to the membrane, and fit smoothly without excess folds or stretching of the material. The field-fabricated boots shall be made of the same material and workmanship as the membrane.

2.3 CONTINUOUS WELD SEAM

- A. A HDPE continuous weld seam shall be embedded into the wall of the sump to provide a continuous heat fusion weld to the sump liner. The HDPE continuous weld seam shall be "Gundlock" weld strip as manufactured by Gundle Lining System, Inc., or approved equal.

PART 3 EXECUTION

3.1 MEMBRANE INSTALLATION

- A. The membrane liner shall be installed as shown in the sump on the Drawings. The Contractor shall make necessary field measurements prior to start of fabrication to assure proper fit of the membrane liner. No membrane material shall be placed when air temperature is less than 35 degrees F and decreasing, or more than 90 degrees F, when relative humidity is more than 80 percent, when it is raining, or when there is frost on the ground.
- B. The edges of the liner shall be anchored using embedded continuous weld strip as shown on the Drawings, or as otherwise approved in writing by the Engineer. The membrane sheeting shall be protected and kept clean and free of all debris during placement. The liner shall also be protected to prevent uplift by wind or other damage to the membrane prior to seaming.

3.2 FIELD SEAMS

- A. Lap joints shall be used to seal factory-fabricated membrane sheets together in the field. All field joints shall be made on a supporting smooth surface. The lap joints shall be formed by lapping the edges of sheets a minimum of 4 inches. The contact surfaces of the sheets shall be wiped clean to remove all dirt, dust, moisture, or other foreign materials. The lap joints shall extend to the end of the sheets through the boots.
- B. Lap joints between the high density polyethylene membranes shall be made using the fusion-extrusion welding system, equipment, and techniques. An alternate joint welding system shall use a single or double hot wedge fusion welding unit as designed by Resicon, Inc., or approved equal. The welding unit shall seal the edge of the top sheet or have a cutter integral to the upper pressure wheel assembly. The cutter shall score the unbonded top flap at the edge of the weld to allow removal by hand. The flap shall be removed without affecting the integrity of the weld or sheet.

3.3 FIELD TESTING

- A. General:
 - 1. Test seams shall be made to verify that adequate conditions exist for field seaming to proceed. Each seamer shall produce a test seam at the beginning of each shift. The Engineer may require a sample field seam be made at any time during seaming production to verify equipment/operator performance and seam integrity. In addition, if a seaming operation has been suspended for more than 1/2 hour or if a breakdown of the seaming equipment occurs, a test seam shall be produced prior to resumption of seaming operations.
 - 2. After field joints have been made, test samples will be removed from the joints by the Contractor at locations selected by the Engineer. Samples shall have a width of 30 inches and a length of 10 inches plus the seam width, and shall be tested by the Subcontractor at the direction of the Engineer to determine the peel and tensile strength of the field joint. All factory and field seams (joints) shall have a seam strength equal to 90 percent of that of parent material. The parent material shall be tested in accordance with ASTM D638. The cost of testing shall be borne by the Contractor.
- B. Leak Testing: All field seams and joints shall be tested for weakness and leaks using the vacuum box and soap solution. A sudsy solution consisting of soap and water shall be dispensed on the seam immediately ahead of the vacuum box to enhance the detection of leaks.

3.4 REPAIRS TO LINER

- A. Any necessary repair to the membrane shall be made with a piece of the membrane material. The patch size shall be 4 inches larger in all directions than the areas to be repaired. All corners of the patch shall be rounded with a minimum radius of 1 inch. The contact surfaces shall be

prepared and the patch seamed and the edges extrusion welded in accordance with Article FIELD SEAMS.

3.5 QUALITY OF WORKMANSHIP

- A. All joints, on completion of work, shall be tightly bonded and watertight. The work "watertight" shall be defined as impermeable to the passage of water in a liquid state.

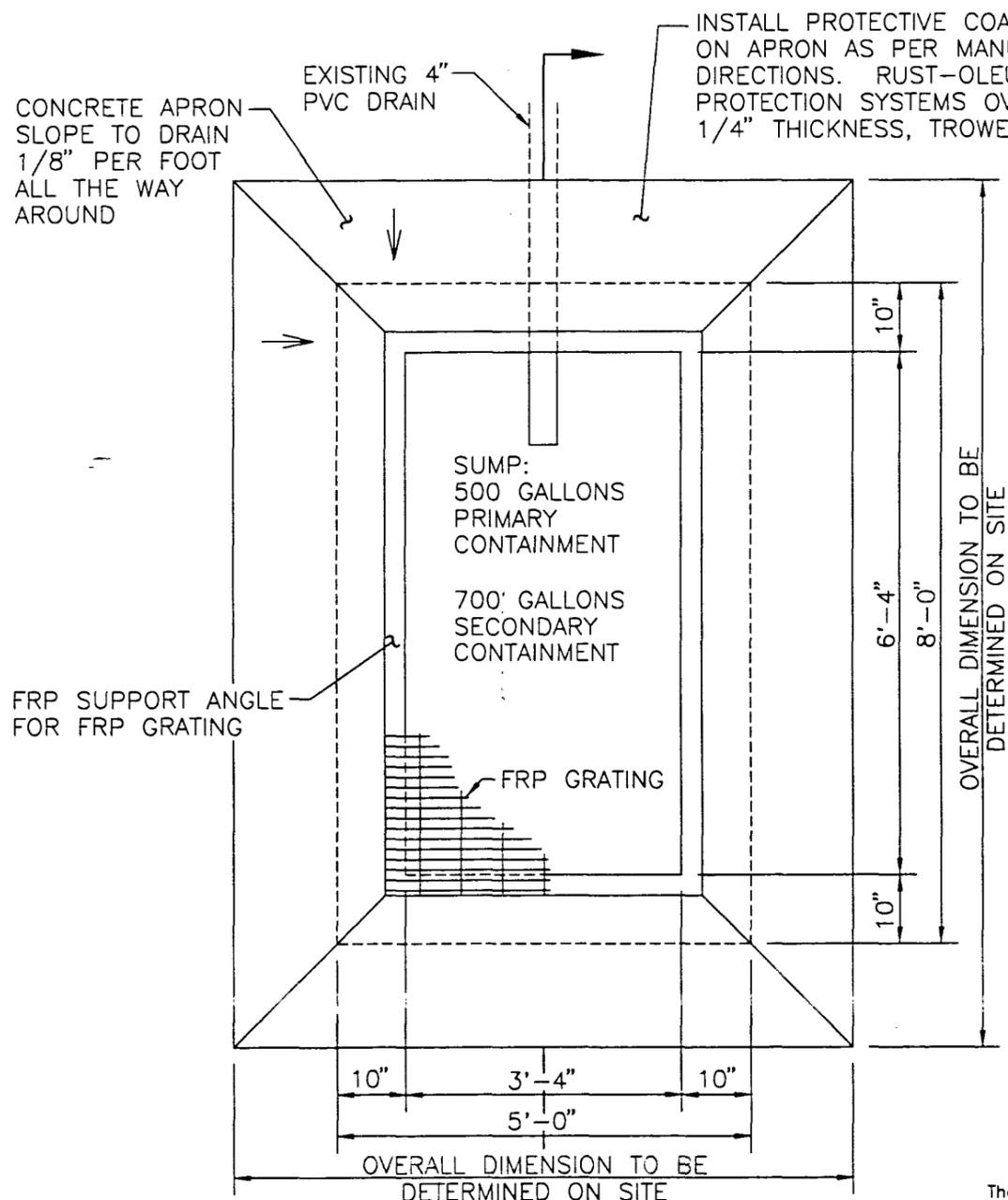
3.6 BOOTS

- A. The membrane boots shall be attached to respective penetrating structures as required and recommended by the manufacturer and approved by the Engineer.

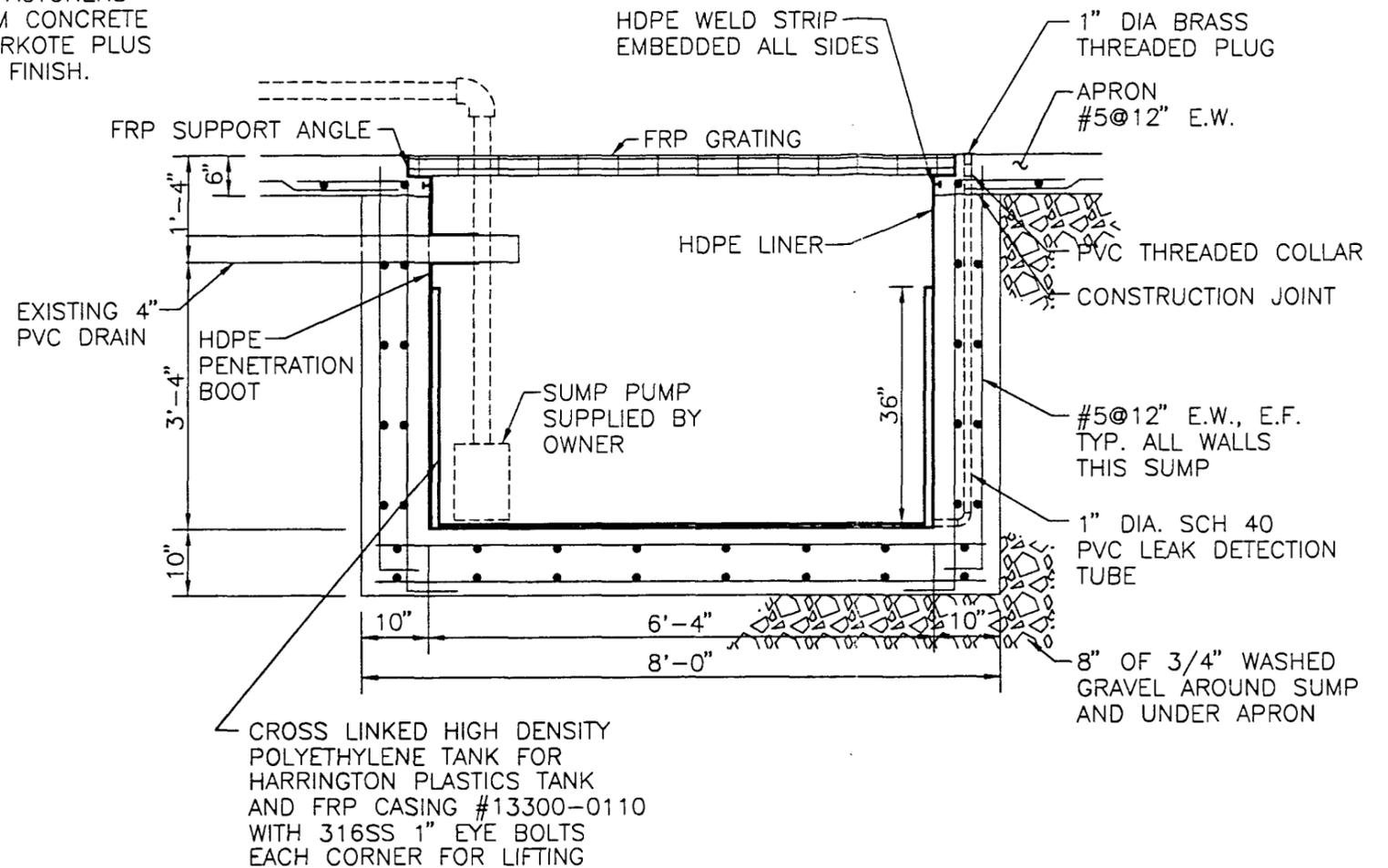
3.7 QUALITY CONTROL RECORD DOCUMENT

- A. The Subcontractor shall provide copies of all material and seam test results and document any changes approved by the Engineer.

END OF SECTION



PLAN VIEW



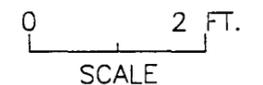
SECTION A-A

CONTINGENCY PLAN

The acid sump is designed to collect acid wastes for transfer to the neutralization facility. The primary sump is a 500 gallon rectangular HDPE tank with a FRP casing. Secondary containment is provided by a 10" thick concrete sump lined with 80 mil HDPE. Leakage of the primary containment can be detected in the secondary containment by visual observation of the open space between the tank and lined concrete. Leakage of the secondary containment is monitored by a leak detection tube which is hydraulically connected to the space between the concrete and HDPE liner.

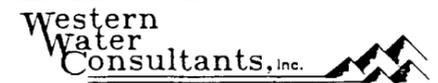
In the event of a leak of the primary containment, the sump will be emptied immediately. The tank removed and inspected. If possible, repairs will be made, otherwise the tank will be replaced. Prior to reinstallation of the tank, the HDPE liner on the concrete sump will be inspected for any damage or leakage.

If leakage of the secondary containment is detected, again the system will be emptied immediately. The primary tank will be handled as discussed above. Repair of the secondary containment will require removal of the HDPE liner. Once the liner is removed the concrete will be inspected for corrosion. If corrosion is minimal the concrete will be repaired with non-shrink grout and relined with a new 80 mil HDPE liner. Severe corrosion of the concrete will require complete replacement of the sump. Any soil that may be contaminated will be neutralized.



ACID SUMP AND APRON

DOWELL SCHLUMBERGER INCORPORATED
HOBBS, NEW MEXICO





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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

March 1, 1994

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-057

Mr. John A. Miller
Environmental Remediation Manager
Dowell Schlumberger Inc.
P.O. Box 4378
Houston, Texas 77210-4378

**RE: CLOSURE REPORT FOR ACID COLLECTION SYSTEM
DOWELL SCHLUMBERGER HOBBS SERVICE FACILITY (GW-73)
LEA COUNTY, NEW MEXICO**

Dear Mr. Miller:

The New Mexico Oil Conservation Division (OCD) has received your February 10, 1994 "Closure Report for an Acid Collection System" at the Dowell Schlumberger (D/S) Incorporated Facility in Hobbs, New Mexico prepared by Western Water Consultants, Inc. on behalf of D/S. The above document details the closure of the acid collection system located in the south central portion of the facility.

D/S removed two 1,000 gallon tanks and one concrete sump and excavated the soils surrounding these structures. Testing of the excavated soils and debris removed from the tanks/sump indicate these materials are non-hazardous. D/S has proposed to dispose of the excavated soils at the East Carbon Development Corporation disposal facility in East Carbon City, Utah and to dispose of the fiberglass tanks and concrete at the Lea County municipal landfill as routine construction debris. In addition, D/S has requested approval to install a replacement sump and resurface the area.

Based on the information supplied in the closure report the OCD hereby approves disposal of the excavated soil and debris and replacement of the sump under the following conditions:

Mr. John Miller
March 1, 1994
Page 2

1. Contaminated Soils: All chemical analyses and records of transport and disposal of the contaminated soils will be maintained at the D/S Hobbs Service Facility.
2. Sump Replacement: The newly replaced sump will be constructed and installed in accordance with the OCD's December 1, 1993 approval.
3. Soil Remediation Plan: D/S will submit a work plan and schedule to remediate those areas where excavation was stopped by physical barriers by June 1, 1994.

Please be advised that the OCD approval 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 contact me at (505) 827-5884.

Sincerely,



Kathy M. Brown
Geologist

xc: Wayne Price, OCD Hobbs Office

Dowell Schlumberger Incorporated
P.O. Box 4378
Houston, Texas 77210-4378
(713) 275-8400

OIL CONSERVATION DIVISION
RECEIVED

1994 FEB 14 AM 8 35

10 February 1994

Ms. Kathy Brown
New Mexico Oil Conservation Division
State Land Office Building
310 Old Santa Fe Trail
Santa Fe, NM 87501

**RE: CLOSURE REPORT FOR AN ACID COLLECTION SYSTEM
DOWELL SCHLUMBERGER INCORPORATED FACILITY
(GW-73) HOBBS, NEW MEXICO**

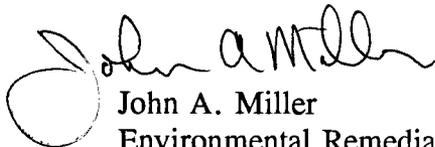
Dear Ms. Brown:

Enclosed is the Closure Report for an Acid Collection System at the Dowell Schlumberger Incorporated Facility in Hobbs, New Mexico. Upon your approval, excavated soils will be transported to East Carbon Development Corporation in East Carbon City, Utah for disposal. The fiberglass separator tanks and concrete sump pieces will be transported and disposed at the Lea County municipal landfill as routine construction debris.

As stated previously, we refilled part of the excavation to enable normal operations to resume. Request your concurrence with our plan to install a replacement sump and resurface the area. We are evaluating a soil vapor extraction pilot test for those areas where excavation was stopped by physical barriers. We will develop a work plan and schedule for your review and comments.

If you have any questions or if I can be of further assistance, please call me at (713) 275-8498.

Sincerely,



John A. Miller
Environmental Remediation Manager

JAM/dd

cc: S. Fields, WWC
D. Hooker, Hobbs

Dowell Schlumberger Incorporated
P.O. Box 4378
Houston, Texas 77210-4378
(713) 275-8400

December 17, 1993

RECEIVED

DEC 20 1993

OIL CONSERVATION DIV.
SANTA FE

Ms. Kathy Brown
New Mexico Oil Conservation Division
State Land Office Building
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

RE: Closure of Acid Neutralization System
Dowell Schlumberger Hobbs Service Facility (GW-73)
Lea County, New Mexico

Dear Ms. Brown:

Enclosed are two laboratory samples from the excavation to remove two separator tanks and a collection sump. I refer to figure 2-1 of the closure plan we submitted to locate these samples for you. Sample ID: Sump Ex. was taken below the collection sump at a depth of about 8½ feet. This area had high organic vapor readings in the field. The excavation went north to the second separator tank where minimal OVA readings were found. Sample ID: South Wall was taken under the concrete slab adjacent to the collection sump.

Also enclosed is a photo showing a four inch protective casing surrounding a three inch gas line. This gas line was in contact with the northern edge of the collection sump and restricted our work area.

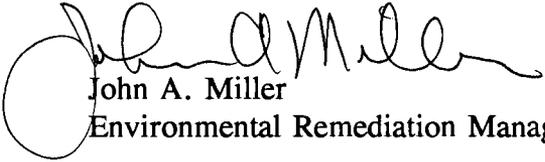
Upon receipt of the laboratory data, we arranged for a driller to install a boring adjacent to the drain line (see figure 2-1) and two borings about 5 to 8 feet on either sided. The center boring had elevated OVA readings. However, the two outer borings had minimal readings.

Based on the laboratory data which indicates 25.6 ppm Ethylbenzene and 19.6 ppm methylene chloride, we plan to excavate another four to five feet under the sump and continue this excavation along the line to the drain. We will stop at the drain which is a new construction item with secondary containment.

As we discussed today, because this loading area is key to district operations we will excavate to a suitable depth, grab the appropriate samples, and then immediately refill the excavation with construction grade crushed rock. As per our discussion, I understand that NMOCD will reserve comments until receipt of the laboratory data and might require further action such as soil vapor extraction.

Thank you for your understanding and support in our effort to minimize district work stoppage.
If you have any questions, or I can be of further assistance, please call me at (713)275-8498.

Sincerely,



John A. Miller
Environmental Remediation Manager

cc: S. Fields, WWC
D. Hooker, Hobbs

15053932476

CARDINAL LABS

779 P02

DEC 13 '93 16:28



PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TEXAS 79603
PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240

RECEIVED

DEC 20 1993

EPA 8240 PRIORITY POLLUTANTS OIL CONSERVATION DIV.
Date: 12/13/93 ANTA FE
Lab # HI448-1

Company: Western Water Consultants
Address: 611 Skyline
City, State: Laramie WY

Project Name: 3007
Project Location: Hobbs, NM
Sampled by: gg
Type of Sample: Soil
Sample ID: Sump Ex.
Date: 12/08/93
Sample Condition: GIST

VOLATILES

PARAMETER	RESULT	UNITS
Dichlorodifluormethane	<5000	ug/kg
Chloromethane	<10000	ug/kg
Vinyl Chloride	<10000	ug/kg
Bromomethane	<10000	ug/kg
Chloroethane	<10000	ug/kg
trans-1,2-Dichloroethene	<5000	ug/kg
1,1-Dichloroethene	<5000	ug/kg
Trichlorofluoromethane	<5000	ug/kg
Methylene Chloride	15,600	ug/kg
1,1-Dichloroethane	<5000	ug/kg
Methyl Ethyl Ketone	<100000	ug/kg
Chloroform	<5000	ug/kg
1,1,1-Trichloroethane	<5000	ug/kg
1,2-Dichloroethane	<5000	ug/kg
Benzene	<5000	ug/kg
Carbon Tetrachloride	<5000	ug/kg
1,2-Dichloropropane	<5000	ug/kg
Trichloroethene	<5000	ug/kg
Bromodichloromethane	<5000	ug/kg
2-Chloroethylvinylether	<10000	ug/kg
1,3-Dichloropropene	<5000	ug/kg
Toluene	<5000	ug/kg
1,1,2-Trichloroethane	<5000	ug/kg
Dibromochloromethane	<5000	ug/kg
Tetrachloroethene	<5000	ug/kg
Chlorobenzene	<5000	ug/kg
Ethylbenzene	25,600	ug/kg
Bromoform	<5000	ug/kg
1,1,2,2-Tetrachlorethane	<5000	ug/kg
1,3-Dichlorobenzene	<5000	ug/kg
1,4-Dichlorobenzene	<5000	ug/kg
1,2-Dichlorobenzene	<5000	ug/kg

METHOD: VOLATILES - EPA 8240

Michael R. Fowler

Michael R. Fowler

Date 12/13/93

15053932476



779 P03

DEC 13 '93 16:29



PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TEXAS 79603
PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240

EPA 8240 PRIORITY POLLUTANTS

Company: Western Water Consultants Date: 12/13/93
Address: 611 Skyline Lab # W1448-2
City, State: Laramie WY

Project Name: 3007
Project Location: Hobbs, NM
Sampled by: SG Date: 12/08/93
Type of Sample: Soil Sample Condition: GIST
Sample ID: South Wall

VOLATILES

PARAMETER	RESULT	UNITS
Dichlorodifluoromethane	<5000	ug/kg
Chloromethane	<10000	ug/kg
Vinyl Chloride	<10000	ug/kg
Bromomethane	<10000	ug/kg
Chloroethane	<10000	ug/kg
trans-1,2-Dichloroethene	<5000	ug/kg
1,1-Dichloroethene	<5000	ug/kg
Trichlorofluoromethane	<5000	ug/kg
Methylene Chloride	16,960	ug/kg
1,1-Dichloroethane	<5000	ug/kg
Methyl Ethyl Ketone	<100000	ug/kg
Chloroform	<5000	ug/kg
1,1,1-Trichloroethane	<5000	ug/kg
1,2-Dichloroethane	<5000	ug/kg
Benzene	<5000	ug/kg
Carbon Tetrachloride	47,180	ug/kg
1,2-Dichloropropane	<5000	ug/kg
Trichloroethene	<5000	ug/kg
Bromodichloromethane	<5000	ug/kg
2-Chloroethylvinylether	<10000	ug/kg
1,3-Dichloropropene	<5000	ug/kg
Toluene	<5000	ug/kg
1,1,2-Trichloroethane	<5000	ug/kg
Dibromochloromethane	<5000	ug/kg
Tetrachloroethane	<5000	ug/kg
Chlorobenzene	<5000	ug/kg
Ethylbenzene	13,040	ug/kg
Bromoform	<5000	ug/kg
1,1,2,2-Tetrachlorethane	<5000	ug/kg
1,3-Dichlorobenzene	<5000	ug/kg
1,4-Dichlorobenzene	<5000	ug/kg
1,2-Dichlorobenzene	<5000	ug/kg

METHOD: VOLATILES - EPA 8240

Michael R. Fowler
Michael R. Fowler

Date 12/13/93





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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

November 3, 1993

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-241-144

Mr. John A. Miller
Remediation Manager
Dowell Schlumberger Inc.
P.O. Box 4378
Houston, Texas 77210-4378

**RE: CLOSURE OF ACID NEUTRALIZATION SYSTEM
DOWELL SCHLUMBERGER HOBBS SERVICE FACILITY (GW-73)
LEA COUNTY, NEW MEXICO**

Dear Mr. Miller:

The New Mexico Oil Conservation Division (OCD) has received your August 31, 1993 "Closure Plan for an Oil/Water Separator and Collection Sump" at the Dowell Schlumberger (Dowell) Incorporated Facility in Hobbs, New Mexico prepared by Western Water Consultants, Inc. on behalf of the Dowell. The above document outlines a plan for closure of two oil/water separator tanks and a collection sump which were formerly operated as part of an acid neutralization system.

Based on the information supplied in the closure plan and the materials dated September 8, 1993, and October 20, 1993 submitted as supplements to the plan, the OCD hereby approves closure of the acid neutralization system under the following conditions:

1. **Wastewater Disposal:** The wastewater remaining in the system will be neutralized and disposed of at Loco Hills Disposal Facility. Prior to disposal tests will be conducted and records maintained confirming that a neutral pH was obtained.

Mr. John Miller
November 3, 1993
Page 2

2. Tank and Sump Waste: The tanks and concrete sump will be excavated, cleaned on site and the waste debris stockpiled in a lined holding area. The wastes will be tested for hazardous characteristics and the results submitted to the OCD Santa Fe Office for approval prior to disposal.
3. Contaminated Soils: If contaminants are detected in the underlying soils after removal of the tanks and sump, Dowell will provide the OCD with all testing results prior to disposal of contaminated soils or closure of the excavation. All excavated soils will be stockpiled in a lined holding area.
4. Sump Replacement: All newly installed or replaced sumps will be constructed with secondary containment and leak detection. All new sumps must receive OCD approval prior to installation.
5. Investigation Report: Dowell will submit a final closure report to the OCD within 45 days of completing the proposed closure.

Please be advised that the OCD approval does not limit you to the work proposed if the investigation fails to fully delineate the extent of contamination related to the Dowell's activities. 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 contact me at (505) 827-5884.

Sincerely,



Kathy M. Brown
Geologist

xc: Jerry Sexton, OCD Hobbs Office



MEMORANDUM OF MEETING OR CONVERSATION

Telephone

Personal

Time

4:00 P.m

Date

Nov. 2, 1993

Originating Party

Other Parties

John Miller

K.M. Brown

Schlumberger

OC&D

SUBJECT

Closure of separator + acid neutralization area.

DISCUSSION

Authorization to remove sumps needed.

Soils - remove tanks then look @ the soils.

Area set up to stockpile concreted soil on plastic.

Clean concrete + dispose of as construction material.

Test soils and then dispose of as tests require.

Fluids in sumps needs to be disposed of.

Need to neutralize and then send to Leo Hills.

Conclusions or Agreements

DISTRIBUTION

Signed

K. Brown

Schlumberger Dowell

Lowell Schlumberger Incorporated
P.O. Box 4378
Houston, Texas 77210-4378
(713) 275-8400

October 20, 1993

Mr. Roger Anderson
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504

RE: Closure Plan for an Oil Water Separator and Collection Sump
at the Dowell Schlumberger Incorporated Facility, Hobbs New
Mexico (August 31, 1993)

Dear Mr. Anderson:

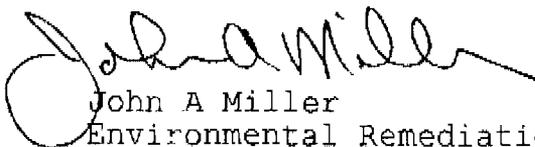
On October 14, 1993, the contents of each of the oil water separators was re-sampled and tested for ignitability. The enclosed laboratory results show the ignitability level to be above 140°F. Also enclosed is the chain of custody documentation for the two samples.

Discussion with laboratory personnel indicates previously reported data could have been due to interpretation of initially opening the cap for the ignitability test.

Please replace the former ignitability data with the enclosed information.

If you have any further comments or question, please contact me at (713) 275-8498.

Sincerely



John A Miller
Environmental Remediation Manager

cc: Western Water Consultants

OCT-21-93 THU 08:44

2 11:27 AM
DOWELL, RAY
PH 505-393-2476



ARDINAL LABORATORIES

PHONE: (505) 393-2326 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240

H1200

Chain of Custody Record

Project I.D. _____
 Project Location Dartt Schlumberger
 Sampled By Ben Howe, Scott Rawstaj
 Client Name Dartt
 Address 1105 W. Borden
 Telephone 505-393-6186

SENT BY: NORTH AMERICA
 ** 200:3904 79101 **
 15053932476

CARDINAL LABS

:10-21-93 :10:41AM :

DOWELL

5056275741 :# 4/ 4

6:52 PM OCT 21 1993

RCV BY: NORTH AMERICA 10-19-93 10:23AM 113707212818 7132758526 P.04

Sample Number	Date	Time	Composite	Grab	Sample Location	Number of Containers	Analysis Required				Remarks (Type sample, preservation, etc.)	
							FLASH POINT					
# 1	10/14/93	10:00			Hobbs OS Yard North	1	X					
# 2	10/14/93	10:00			Hobbs OS Yard South	1	X					
NO CHANGE												

Released by: (Signature)	Date	Time	Received by: (Signature)	Remarks:	Shipped/	ored
	10/14		<i>Mike Lewis</i>			
Released by: (Signature)	Date	Time	Received by: (Signature)			

Dowell Schlumberger Incorporated
P.O. Box 4378
Houston, Texas 77210-4378
(713) 275-8400

RECEIVED

SEP 10 1993

OIL CONSERVATION DIV.
SANTA FE

VIA FEDEX

8 September 1993

Mr. Roger Anderson
New Mexico Oil Conservation Division
P.O. Box 2088
Sante Fe, NM 87504

RE: REVISED CLOSURE PLAN FOR ACID NEUTRALIZATION SYSTEM

Dear Mr. Anderson:

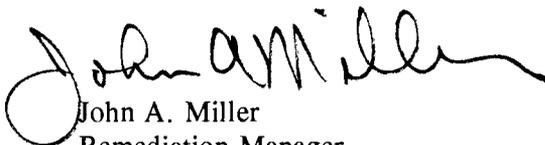
Enclosed for your review and approval are two copies of a closure plan for components of a former acid neutralization system at the Dowell Schlumberger Incorporated (Dowell) facility in Hobbs, New Mexico. This plan is a revision of an earlier plan and is in accordance with Dowell's Discharge Plan GW-73 approved by the NMOCD in October 1991.

This plan changes the disposal of wastewater. The previous plan specified the disposal of wastewater down a Class I injection well. The revised plan specifies disposal of wastewater at I/W Inc.'s Loco Hills Disposal facility.

By copy of this letter, one copy of the plan is being submitted to the OCD Hobbs office.

We wish to proceed with closure at the earliest possible date and would therefore appreciate your timely review. Please do not hesitate to contact me if you have any questions.

Sincerely,


John A. Miller
Remediation Manager

JAM/dd

cc: Mr. Jerry Sexton (with encl.)
Oil Conservation Division
1000 W. Broadway
Hobbs, NM 88240

WWC, Laramie

Serving Our Clients Since 1980

WESTERN WATER CONSULTANTS, INC.

Engineering • Hydrology • Hydrogeology • Waste Management • Construction Administration

611 SKYLINE ROAD, P.O. BOX 4128 • LARAMIE, WYOMING 82071 • (307) 742-0031 • FAX (307) 721-2913

August 31, 1993

Mr. John Miller
Environmental Coordinator
Dowell Schlumberger Incorporated
300 Schlumberger Drive
Sugarland, TX 77478

RE: Disposal of neutralized acid heels from the Dowell Schlumberger Incorporated Facility in Hobbs, New Mexico WWC JN 3007

Dear John:

This letter is to summarize a recent telephone conversation between Western Water Consultants, Inc. (WWC) and Mr. Roger Anderson with the New Mexico Oil Conversation Division (NMOCD) regarding approved oil and gas waste disposal facilities in southeastern New Mexico. The conversation was prompted by the need to specify an approved disposal facility for the separator closure in Hobbs.

Mr. Anderson said there are four facilities which are permitted non-hazardous oil and gas waste disposal sites in the southeast; 1) Parabo, a Unichem owned facility, which has had NMOCD and EPA regulatory problems in the past; 2) Loco Hills, an I/W Inc. facility and; 3) Controlled Recovery Inc. (CRI) are located near Artesia, and Hobbs, respectively. These two facilities have had no regulatory problems and deal with the OCD on a regular basis. Rhino Disposal, another facility discussed, is not permitted for oil and gas industry wastes.

We will coordinate with the Loco Hills disposal facility for the separator tanks contents as part of closure activities at the Hobbs, New Mexico Dowell facility. If you have any questions or comments please call me at 307-742-0031.

Sincerely yours,



Scott Gustin
Environmental Scientist

SG/sb

cc: Brent Schindler, 2 copies
Lynn Northcutt, Dowell-Hobbs, N.M.
File: 3007-A

OTHER LOCATIONS

1949 SUGARLAND DRIVE, SUITE 134
SHERIDAN, WYOMING 82801
(307) 672-0761
FAX (307) 674-4265

701 ANTLER DRIVE, SUITE 233
CASPER, WY 82601
(307) 473-2707
FAX (307) 237-0828

15

*Record
Book*

21385

CONVEYANCE OF REAL PROPERTIES
TO DOWELL SCHLUMBERGER INCORPORATED

STATE OF NEW MEXICO :
:
COUNTY OF LEA :

WHEREAS, pursuant to an Assets Agreement dated as of April 13, 1984, SCHLUMBERGER TECHNOLOGY CORPORATION ("STC"), a Texas corporation, whose principal place of business is located at 5000 Gulf Freeway, Houston, Texas 77023, acquired from THE DOW CHEMICAL COMPANY ("Dow"), a Delaware corporation, whose principal place of business is located at 2030 Willard H. Dow Center, Midland, Michigan 48640, an undivided one-half (1/2) interest in the "Dowell Business" as described in such Assets Agreement, including certain real properties situated in the above-named county and described in Exhibit "A" attached hereto;

WHEREAS, Dow and STC agreed in a Subscription Agreement, dated as of April 13, 1984, that each would transfer its one-half interest in the Dowell Business, as previously acquired under the Assets Agreement, to Dowell Schlumberger Incorporated ("DSI"), a Delaware corporation, now located at 1155 N. Dairy Ashford, Suite 600, Houston, Texas 77079;

WHEREAS, pursuant to such Subscription Agreement, Dow and STC now wish to convey to DSI their respective corporations' one-half interest to that part of the assets of the Dowell Business consisting of real properties located in the above-named county and described in Exhibit "A" attached hereto;

NOW, THEREFORE, in consideration of the premises and of ONE HUNDRED DOLLARS (\$100.00) cash and other good and valuable consideration, the receipt of which is hereby acknowledged, Dow and STC do hereby GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER and DELIVER unto DSI, its successors and assigns, all right, title and interest of Dow and STC in and to the properties which are described in Exhibit A, attached hereto and made a part hereof for all purposes, together with the same interest in all improvements situated thereon; subject, however, to any restrictions, exceptions, reservations, conditions, limitations, contracts, agreements and other matters applicable to such properties. Dow and STC further give and grant unto DSI, its successors and assigns, all rights in and to all covenants and warranties by others heretofore given or made in respect of such properties, together with the power and right of substitution and subrogation in and to such covenants and warranties.

FOR DSI, its successors and assigns, to have and to hold the above-described properties in accordance with the terms hereof.

EXECUTED ON THE DATES OF THE RESPECTIVE ACKNOWLEDGMENTS HEREOF BUT EFFECTIVE as of April 13, 1984.

THE DOW CHEMICAL COMPANY

Attest:

R. W. Barker

Assistant Secretary

CN BY W. M. Hancock

Vice President

SCHLUMBERGER TECHNOLOGY CORPORATION

Attest:

Robert F. Briggs
Assistant Secretary

By X [Signature]
Vice President

Approved as to form
RB
Legal Department

DOWELL SCHLUMBERGER INCORPORATED

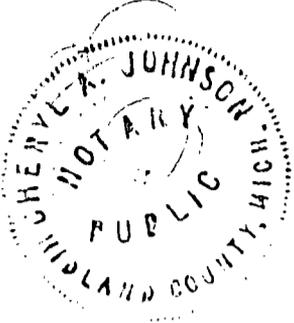
By [Signature]
Vice President

Attest:

Michael P. Hantel
Secretary

STATE OF MICHIGAN :
: COUNTY OF MIDLAND :

The foregoing instrument was acknowledged before me this 12th day of September, 1988, by W. M. Hauschek, Vice President of THE DOW CHEMICAL COMPANY, a Delaware corporation, on behalf of the corporation.



Cheryl A. Johnson
Notary Public, Midland County,
State of Michigan.

Name of Notary: CHERYL A. JOHNSON
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
My Commission Expires: APRIL 22, 1991

STATE OF TEXAS :
: COUNTY OF HARRIS :

The foregoing instrument was acknowledged before me this 4th day of October, 1988, by T. Guzella, Vice President of SCHLUMBERGER TECHNOLOGY CORPORATION, a Texas corporation, on behalf of the corporation.



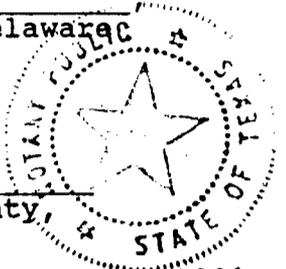
Ann Reik
Notary Public, Harris County,
State of Texas.

Name of Notary: ANN REIK
My Commission Expires: MAY 4, 1991

STATE OF TEXAS :
: :
COUNTY OF HARRIS :

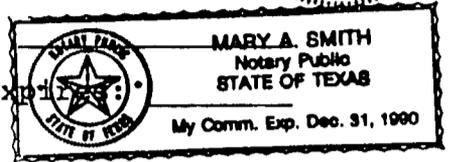
The foregoing instrument was acknowledged before me this 29th day of October, 1988, by J. D. Callison Vice President of DOWELL SCHLUMBERGER INCORPORATED, a Delaware corporation, on behalf of the corporation.

Mary A. Smith
Notary Public, Harris County,
State of Texas.



Name of Notary:

My Commission Expires:



This instrument prepared by:

Carl Hendrix
Post Office Box 3387
Houston, Texas 77253-3387

LOCATION: Hobbs (Lea County), New Mexico

GRANTOR: Theodore R. Johnson and Irene W. Johnson

GRANTEE: Dowell Incorporated

DOCUMENT NAME: Warranty Deed

DATE: 11-15-55

WHERE RECORDED: Book 191 Page 268

DESCRIPTION: 8.455 Acres

A tract of land situated in the Northeast Quarter of the Northeast Quarter (NE1/4 of the NE1/4) of Section 28 in Township 18 South of Range 38 East of the N. M. P. M., and more particularly described as follows, to wit:

Beginning at a point which lies South 89°59' West 834.8 feet and South 0°2' East 40.0 feet from the Northeast corner of said Section 28 thence South 89°59' West 418.7 feet to a point, thence South 0°2' East 565.8 feet to a point, thence North 89°59' East 883.3 feet to a point, thence North 39°25' West 732.0 feet to the point of beginning, excepting, however, all oil, gas and other minerals located therein and thereunder, containing 8.455 acres,

Excepting water rights as vested in College of The Southwest

Subject easements and rights-of-way for the benefits of New Mexico Electric Service Company dated December 28, 1967, and for the benefit of Vernah Scott Moyston dated March 26, 1956.

STATE OF NEW MEXICO
COUNTY OF LEA
FILED

JAN 29 1988

at 12:19 o'clock P M
and recorded in Book _____
Page _____
Shirley Hooper, Lea County Clerk
By *dad* Deputy



21385

c #

Exhibit "A"
Page 1 of 1

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

September 23, 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-670-683-667

Mr. M.L. Wood, Jr.
Safety & Environmental Coordinator
Dowell Schlumberger Inc.
P.O. Box 640
Hobbs, New Mexico 88241

**RE: DISCHARGE PLAN GW-73
HOBBS SERVICE FACILITY
LEA COUNTY, NEW MEXICO**

Dear Mr. Wood:

The Oil Conservation Division (OCD) has received your August 28, 1992 request to install an above ground test tank for the purpose of testing its pumping equipment and treating iron at your Hobbs Service Facility. The 7700 gallon capacity unlined tank will hold approximately 7000 gallons of an 8% Kcl solution.

The OCD approves the installation of the requested tank. Dowell Schlumberger also requested installation of the berm to contain one and one third times the capacity of the tank by the end of the year, 1992. The OCD approves delay of installation of the berm until the end of the year 1992.

The OCD acknowledges Dowell Schlumberger's plans to remove the two underground pits located at the south east corner of the wash bay. Please submit a closure plan for this operation.

If there are any questions on this matter, please feel free to contact me at (505) 827-5884.

Sincerely,

A handwritten signature in cursive script that reads "Kathy M. Brown".

Kathy M. Brown
Geologist

xc: Chris Eustice, OCD Hobbs Office



DOWELL SCHLUMBERGER
INCORPORATED

OIL CONSERVATION DIVISION
RECEIVED

'92 SEP 1 PM 8 52

P.O. BOX 640

HOBBS, NEW MEXICO 88241

August 28, 1992

Mr. Roger Anderson
State of New Mexico
Energy, Minerals, and Natural Resources Dept.
Oil Conservation Division
P.O. Box 2088
Santa Fe, N.M. 87501

RE: Discharge Plan GW-73
Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Anderson:

Pursuant to section 3-107.C. of the WQCC Regulations, discharger (Dowell Schlumberger), request permission to install an above ground test tank for the purpose of testing its pumping equipment and treating iron.

A cylindrical shaped, 7700 gal. capacity, un-lined steel tank would be placed approx. 80 feet south of the east corner of the wash bay and approx. 120 feet north of the south property line. The tank would hold 7000 gal. of an 8% KCl solution (as a winterizing precaution only), that would set in a bermed area to contain, if released, one and one third times the capacity of the tank. The solution would be removed every 2 years for proper disposal.

Special request: The installation and operation of the tank would be immediate (by end of Sept. 1992). However, due to budget control, discharger would like to delay the installation of the berm until the end of the year (1992). Verbal consent already, acquired. Please follow in writing for filing purposes.

Also, in conjunction with dischargers new construction at wash bay, please be advised at this time that plans are now to remove the two underground pits located at the south east corner of the wash bay.

Thank you very much for your consideration in this matter. If you have any questions please call 505-393-6186.

Sincerely,

M.L. Wood, Jr.
S & E Coordinator



DOWELL SCHLUMBERGER
INCORPORATED

April 23, 1992

P.O. BOX 640

HOBBS, NEW MEXICO 88241

Mr. Roger Anderson
State of New Mexico
Energy, Minerals, and Natural Resources Dept.
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

RECEIVED
APR 27 1992
OIL CONSERVATION DIV.
SANTA FE

RE: Discharge Plan GW-73
Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Anderson,

Please find attached, a site plan and specifications for resurfacing the wash bay and installing an oil and water separator, a PH adjustment and collection system at our Hobbs, New Mexico Facility.

If you have any questions please call me at (505) 393-6186.

Thank you,

M.L. Wood Jr.
Dowell Schlumberger
S & E Coordinator



DOWELL SCHLUMBERGER
INCORPORATED

OIL CONSERVATION DIVISION
RECEIVED

OCT 9 1991

P.O. BOX 640

HOBBS, NEW MEXICO 88241

Date: October 9, 1991

Mr. Roger Anderson
State of New Mexico
Energy, Minerals, and Natural Resources Dept.
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Dear Mr. Anderson,

I am replying to your letter dated September 26, 1991, concerning your comments and requests for additional information on our Discharge Plan.

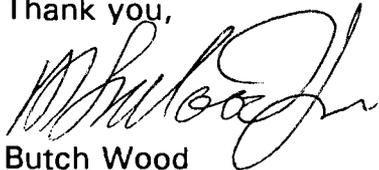
Please be advised that Dowell Schlumberger has just gone through a major re-organization by abolishing all Division Level offices. Therefore, we have lost some continuity within our structure as a company. Nevertheless, I will attempt to answer all your questions with what information I do have.

1. Section IX, Proposed Modifications: Plans for having a "clean closure" on all pits by the end of the 2nd quarter 1993 is still reasonable. I do understand we must have OCD approval prior to starting construction.
2. Section 4 B.1 (b) (1), Acid Storage Tanks: Plans are to remodel the Acid Dock by the end of the 3rd Quarter 1993. At that time the berm around the Acid Storage Tanks will be enlarged to contain one and one-third (1 1/3) times the total volume of all interconnected tanks within the berm. In conjunction with the above mentioned, the hoses and valves that protrude from the berm will be relocated as to contain any spills or leaks within the berm.
3. Section 4 B.2 (a), Drum Storage: Dowell Schlumberger is committing to construction of a new covered drum storage area with curbing. Plans to start construction are by the end if the 3rd quarter 1993,
4. Section 4 B.2 (d), Off Site Discharge: To prevent stormwater run off or spills to enter sewer systems or lagoons, booms have been placed at all possible exits. a weekly inspection of these booms will ensure serviceability and will be replaced when needed.

5. B, C and D: Concrete Sump, Main Collection Sump and Stained Soils: Please refer to Section IX of Discharge Plan. New Wash Bay, Maintenance Shop and Pit Closures: When new construction starts (with OCD approval), on these listed projects the shop with a collection sump w/pump coupled with an adequate oil skimmer will be installed and connected to a recycling and P.H. Adjustment System at the Wash Bay. Projected completion date on these projects will be the end of the 3rd Quarter 1992. Tied into this same time frame, will be the Remediation Program for removal of stained soils.
6. To reference your statement on underground piping older than 25 years of age. Does this include as well, all water lines? *answered by phone*

In closing, if I can be of further assistance in this matter, please call.

Thank you,



Butch Wood
Dowell Schlumberger
Safety & Environmental Coordinator
(505) 393-6186

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

September 26, 1991

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Mr. M. L. Wood
Dowell Schlumberger Inc.
P. O. Box 640
Hobbs, New Mexico 88240

Re: Discharge Plan GW-73
Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Wood:

The Oil Conservation Division (OCD) has received and is in the process of reviewing the discharge plan application, dated July 15, 1991, for the above referenced facility. The following comments and requests for additional information are based on review of the application and observations during the OCD facility inspection on April 19, 1991:

1. Section IX, proposed modifications, states all existing pits will have a clean closure the 2nd quarter 1993. All plans for closure of surface impoundments must be approved by the OCD prior to starting construction.
2. Section 4 B.1.(b) (1) states containment volume must be 110% of the largest tank in the containment. The OCD is requiring all tanks containing any substance other than fresh water be bermed to contain one and one-third (1 1/3) times the volume of the largest tank or one and one-third (1 1/3) times the total volume of all interconnected tanks within the berm.
3. Section 4 B.2.(a) states concrete slabs provide the best type of containment for drummed products. The OCD concurs with this statement and requires paving and curbing type containment for all drums. Is Dowell Schlumberger committing to construction of such containment? If so, please submit a schedule for completion.
4. Section 4 B.2.(d) states "spills or stormwater runoff shall never be allowed to drain directly into sewer systems or lagoons." What preventative mechanisms are in place to accomplish this?
5. The following items were observed during the site inspection and not mentioned in your application:
 - A. The berming around the acid storage tanks require increased storage volume. The hoses and valves that protrude from this berm need to be relocated such that

Mr. M. L. Wood
September 26, 1991
Page -2-

- any spills or leaks will be contained within the berm.
- B. The old concrete sump requires closure.
 - C. The facility main collection sump requires a method to skim oil.
 - D. The oil skimming area requires cleanup of the oil stained soils, installation of a larger containment area and a method and schedule for the annual inspection to insure the integrity of the below grade vessel.
 - E. All underground piping older than 25 years of age is required to be pressure tested to insure integrity.

Submission of plans and a completion timetable for the above requirements will allow review of your application to continue. If you have any questions, please call me at (505) 827-5884.

Sincerely,



Roger C. Anderson
Environmental Engineer

xc: OCD Hobbs Office

AFFIDAVIT OF PUBLICATION

COPY OF PUBLICATION

No. 28175

STATE OF NEW MEXICO,
County of San Juan:

CHRISTINE HILL being duly sworn, says: "That she is the NATIONAL AD MANAGER of The Farmington Daily Times, a daily newspaper of general circulation published in English in Farmington, said county and state, and that the hereto attached LEGAL NOTICE

was published in a regular and entire issue of the said Farmington Daily Times, a daily newspaper duly 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) (weeks) on the same day as follows:

- First Publication FRIDAY, AUGUST 16, 1991
- Second Publication _____
- Third Publication _____
- Fourth Publication _____

and that payment therefore in the amount of \$101.69 has been made.

Christine Hill

Subscribed and sworn to before me this 30th day of AUGUST, 1991.

Connie Andrae

Notary Public, San Juan County, New Mexico

My Comm expires: JULY 3, 1993

RA

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications and renewal 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-85) - Union Oil Company of California, DBA UNOCAL, Glen O. Papp, District Production Engineer, 3300 North Butler, Suite 200, Farmington, New Mexico 87401, has submitted a discharge plan application for its Navajo Compressor Station located in the NW/4, NW/4, Section 7, Township 25 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 4 gallons per day of washdown water and natural gas liquids will be collected in a double lined pond equipped with leak detection prior to disposal at an OCD approved offsite disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth in excess of 100 feet with a total dissolved solids concentration of approximately 700 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

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(GW-75) - HOMCO International, Inc., Robert J. Meddler, Director, Environmental and Safety, P. O. Box 2442, Houston, Texas 77252, has submitted a discharge plan application for its Hobbs service facility located in Section 29, Township 18 South, Range 38 East, NMPM, 3000 West County Road, Lea County, New Mexico. Approximately 800 gallons per day of wastewater are presently stored in an above ground storage tank prior to disposal in an OCD approved offsite disposal facility. Proposed modifications include the installation of a wastewater recycling system. Unrecyclable wastes will be stored in below grade concrete sump equipped with leak detection prior to disposal at an OCD approved offsite disposal facility. Groundwater most likely to be affected by an accidental discharge is in the Ogallala aquifer at a depth of 55 feet with a total dissolved solids concentration ranging from 300 mg/l of 700 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

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(GW-73) - Dowell Schlumberger, Inc., M. L. Wood Jr., Environmental Coordinator, 1105 West Bender Street, Hobbs, New Mexico 88240, has submitted a discharge plan application for its Hobbs service facility located in the NE/4 NE/4, Section 28, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 2200 gallons per day of wastewater is stored in above grade tanks and lined pits prior to disposal at an OCD approved offsite disposal facility. Proposed modifications include the installation of a wastewater recycling system and closure of all surface impoundments.

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND
NATURAL RESOURCES DEPART-
MENT

OIL CONSERVATION DIVISION
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STATE OF NEW MEXICO
County of Bernalillo

ss

OIL CONS

Thomas J. Smithson being duly sworn declares and says that he is National Advertising manager of the Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for.....¹.....times, the first publication being on the.....¹⁴.....day
 of.....^{Aug}....., 1991, and the subsequent consecutive
 publications on....., 1991.

Thomas J. Smithson

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this¹⁴..... day of.....^{Aug}....., 1991.

PRICE.....^{\$67.95}.....

Statement to come at end of month.

ACCOUNT NUMBER.....^{C 81184}.....

OFFICIAL SEAL
Bernadette Ortiz
 BERNADETTE ORTIZ
 PUBLIC-NEW MEXICO
 WITH SECRETARY OF STATE
 pires ^{12/18/93}

CLA-22-A (R-12/91)

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(GW-73)-Dowell Schlumberger, Inc., M.L. Wood Jr., Environmental Coordinator, 1105 West Bender Street, Hobbs, New Mexico 88240, has submitted a discharge plan application for its (Hobbs) service facility located in the NE/4 NE/4, Section 29, Township 18 South, Range 36 East, NMPM, Lea County, New Mexico. Approximately 2200 gallons per day of wastewater is stored in above grade tanks and lined pits prior to disposal at an OCD approved offsite disposal facility. Proposed modifications include the installation of a wastewater recycling system and closure of all surface impoundments. Wastes not recyclable will be disposed of at an OCD approved offsite disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of 66 feet with a total dissolved solids concentration ranging from 300 mg/l to 700 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-14)-Navajo Refining Company, David G. Griffin, Superintendent, Environmental Affairs, P.O. Box 158, Artesia, New Mexico 88210, has submitted a discharge plan renewal application for its Lovington Refinery located in the SE/4, Section 31, Township 16 South, Range 37 East; the SE/4 of Section 36, Township 16 South, Range 36 East; the NW/4 of Section 6, Township 17 South, Range 37 East; and the NE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico. Approximately 175,000 gallons per day of process wastewater with a total dissolved solids concentration of 1300 mg/l will undergo treatment in a USEPA regulated pretreatment unit prior to discharge to the City of Lovington sanitary sewer system. Groundwater most likely to be affected by an accidental discharge is at a depth ranging for 60 feet to 80 feet with a total dissolved solids concentration of 450 mg/l. The discharge plan addresses how spills, leaks and other accidental discharge to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Discharge Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. 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 14th day of August, 1991.

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

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Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Notice Of Publication

and numbered in the
..... Court of Lea
County, New Mexico, was published in a regular and
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, once each week on the
same day of the week, for one (1)
consecutive weeks, beginning with the issue of
August 8, 19 91
and ending with the issue of
August 8, 19 91

And that the cost of publishing said notice is the
sum of \$ 79.56

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

Joyce Clemens
Subscribed and sworn to before me this 9th
day of August, 19 91

Mrs Jean Service
Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 19 94



NOTICE OF PUBLICATION



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

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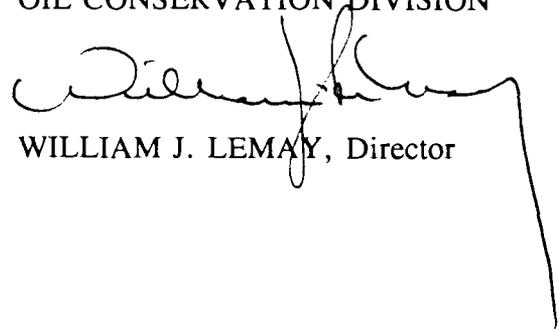
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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 5th day of August, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY, Director

S E A L



DOWELL SCHLUMBERGER
INCORPORATED

OIL CONSERVATION DIVISION
RECEIVED

'91 AUG 29 AM 8 58

P.O. BOX 640

HOBBS, NEW MEXICO 88241

Date: August 26, 1991

Mr. Roger Anderson
State of New Mexico
Energy, Minerals, and Natural Resources Dept.
Oil Conservation Division
P.O. Box 2088
Santa Fe, N.M. 87501

Dear Mr. Anderson,

Please find attached, a certified copy of our "SPCC" Plan which is specific to our Hobbs, New Mexico District. This should answer any questions and clear up any gray areas from the generic description first submitted with the Discharge Plan.

If you have any further questions please call me.

Thank you,

M.L. Wood Jr.
Dowell Schlumberger
Safety & Environmental Coordinator
(505) 393-6186



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

June 28, 1991

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-9327-278-129

Mr. M. L. Wood, Jr.
Dowell Schlumberger Inc.
P. O. Box 640
Hobbs, New Mexico 88241

RE: Discharge Plan GW-73
Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Wood:

The Oil Conservation Division (OCD) has received your request, dated June 24, 1991, for a three (3) week extension, to July 17, 1991, to submit a discharge plan application for the above referenced facility.

Pursuant to Section 3-106.A of the New Mexico Water Quality Control Commission Regulations and for good cause shown, Dowell Schlumberger Inc. is hereby granted an extension to July 17, 1991 to submit a discharge plan application and to operate the Hobbs Service Facility to November 17, 1991 without an approved discharge plan.

If you have any questions, please feel free to contact David Boyer at (505) 827-5812 or Roger Anderson at (505) 827-5884.

Sincerely,

William J. LeMay
Director

WJL/RCA/sl

cc: OCD Hobbs Office

State of New Mexico
Energy, Minerals, and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, NM 87501

OIL CONSERVATION DIVISION

RECEIVED

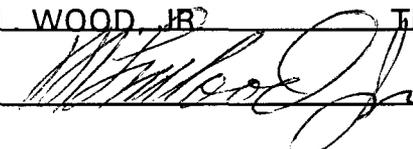
JUL 10 1991

- I. TYPE: Oil Field - Cementing, Acidizing and Fracturing
- II. OPERATOR: Dowell Schlumberger Inc.
ADDRESS: 1105 W. Bender St. (P.O. Box 640) Hobbs, NM 88240
CONTACT PERSON: Jim Flowers / M.L. Wood Jr. PHONE: 393-6186
- III. LOCATION: NE 1 / 4 NE 1 / 4 Section 28 Township 18 South Range 38 East
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 quantities 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: M.L. WOOD, JR. Title: ENVIRONMENTAL COORDINATOR

Signature:  Date: 7-15-91

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

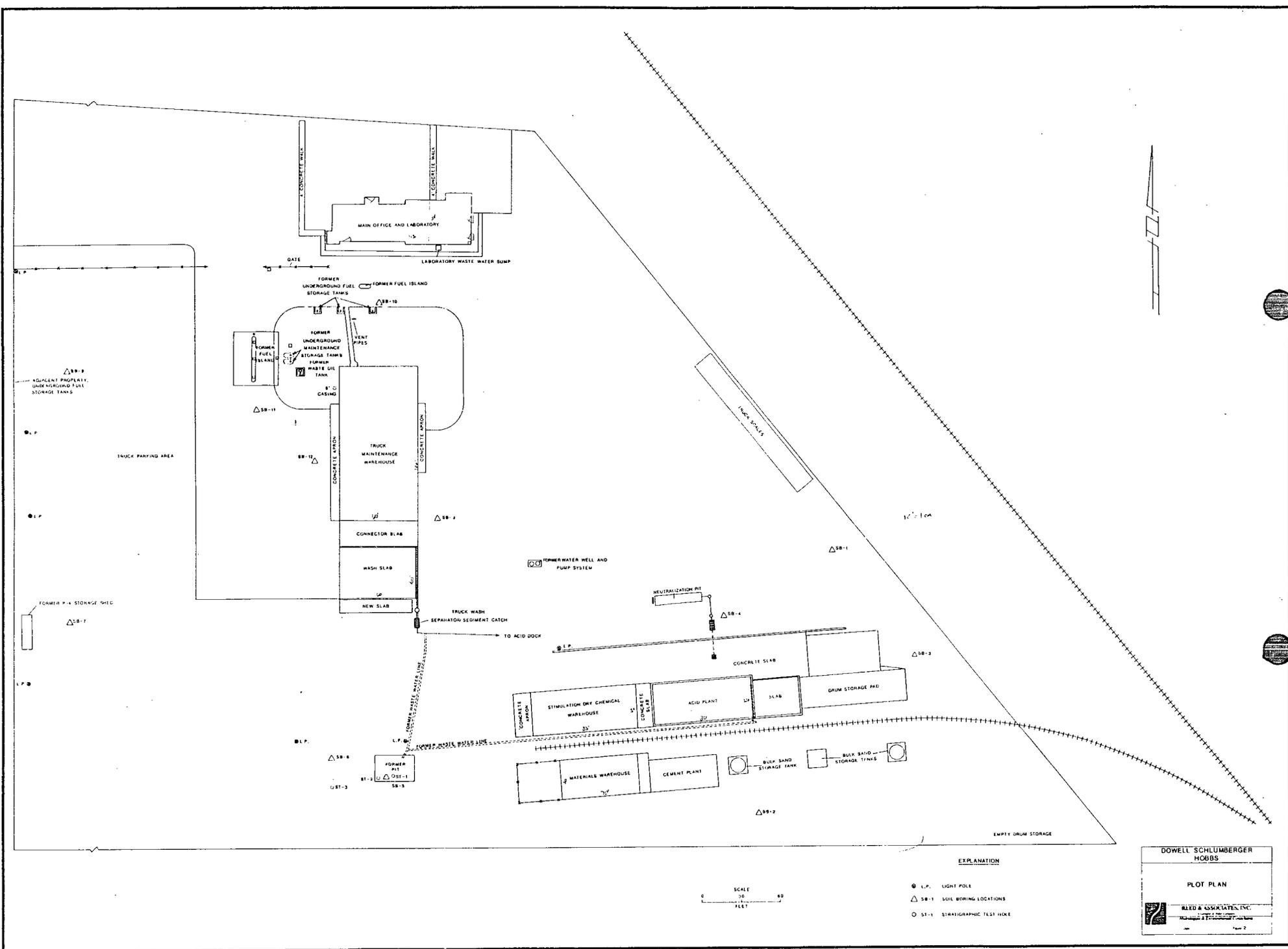
The facility provides special products and services for cementing and stimulating oil and gas wells. Plant activities include repair and refurbishing of equipment related to those activities and storage of various chemicals that are mixed and pumped at the well site

OPERATOR: DOWELL SCHULUMBER, INC.

LOCATION: 105 W. BENDER (P.O. BOX 640) HOBBS, NM 88240

CONTACT : JIM FLOWER / M.L. WOOD JR.

PHONE: 393-6186



EXPLANATION

- L.P. LIGHT POLE
- △ SB-1 SOIL BORING LOCATIONS
- ST-1 STRATIGRAPHIC TEST HOLE



DOWELL SCHLUMBERGER
HOBBS

PLOT PLAN

REED & ASSOCIATES, INC.
REG. U.S. PAT. & TRADE OFF. OFFICE

Page 2

SITE DESCRIPTION

The Dowell Schlumberger site is located at the intersection of Lovington Highway and Bender Boulevard, in Hobbs, New Mexico (Figure 1). The facility provides special products and services for cementing and stimulating oil and gas wells. Plant activities include repair and refurbishing of equipment related to those activities and storage of various chemicals that are mixed and pumped at the well site.

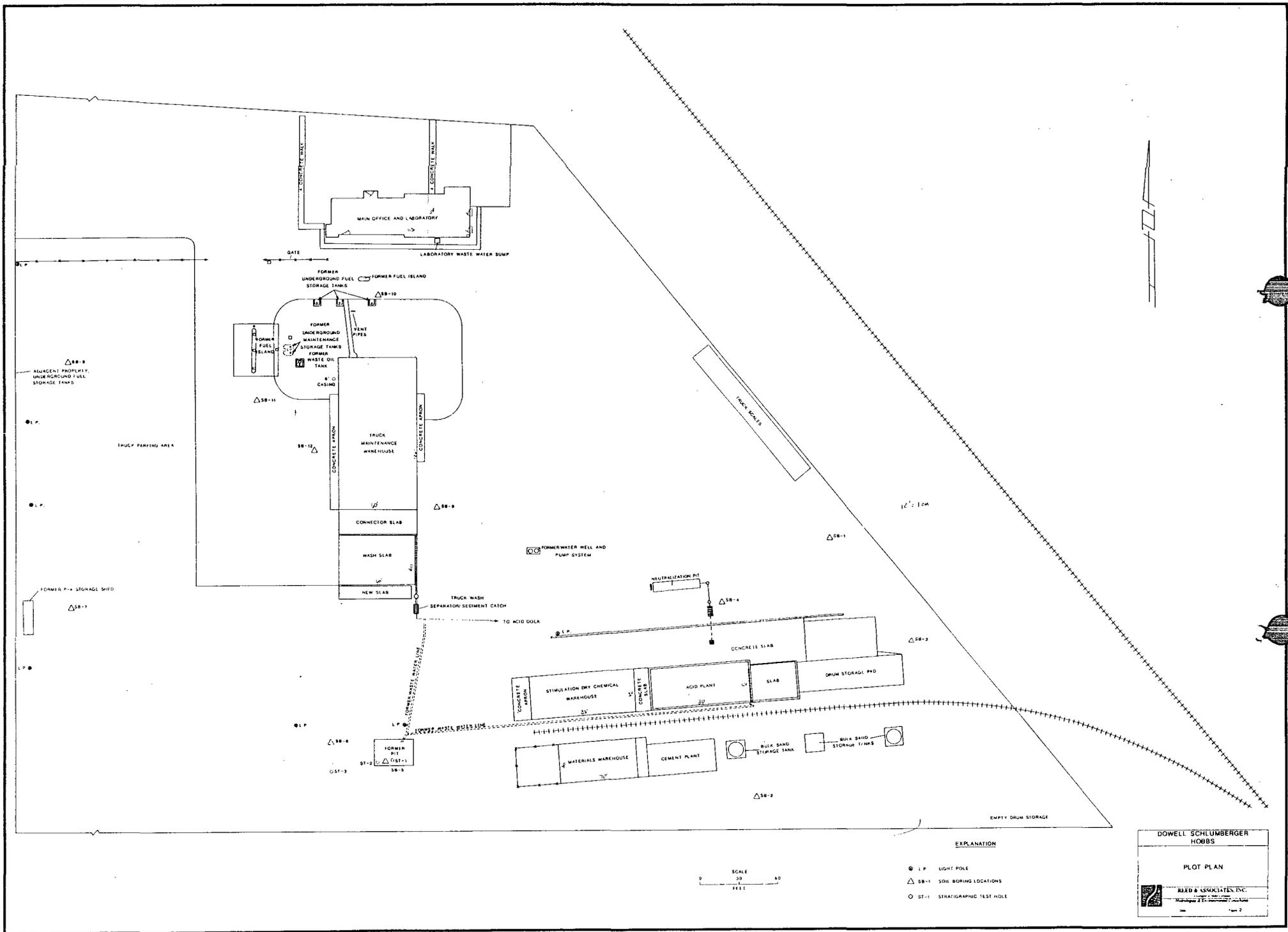
The 8.5-acre site is comprised of approximately 1,500 square feet of office space and 22,000 square feet of operating facilities (Figure 2).

ADJACENT LAND USE

The site is irregularly shaped, bounded by Bender Boulevard on the north and the main track of the Texas and New Mexico Railroad on the northeast.

A number of small businesses are located across Lovington Highway to the northeast of the railroad track. An empty lot is present south of the site. A residential area is located south of the empty lot, several hundred feet from the site.

A construction yard is located west of the site. Five underground storage tanks are located in the construction yard immediately adjacent to the Dowell Schlumberger fence line. An electrical substation is northwest of the site.



EXPLANATION

- L.P. LIGHT POLE
- △ SB-1 SOIL BORING LOCATIONS
- ST-1 STRATIGRAPHIC TEST HOLE

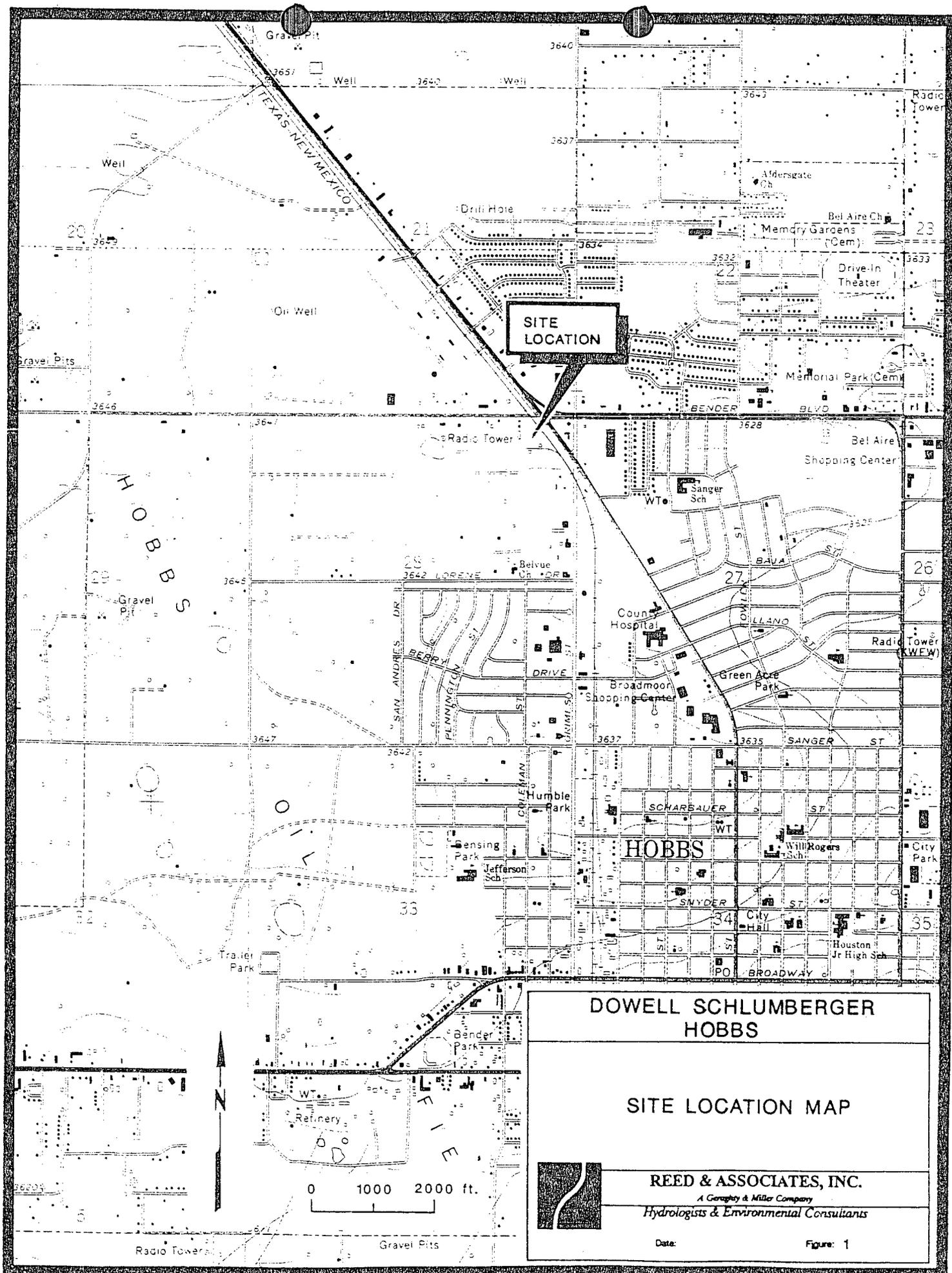


DOWELL SCHLUMBERGER
HOBBBS

PLOT PLAN

REED & ASSOCIATES, INC.

Page 2



**DOWELL SCHLUMBERGER
HOBBS**

SITE LOCATION MAP

REED & ASSOCIATES, INC.

*A Corcoran & Miller Company
Hydrologists & Environmental Consultants*

Date:

Figure: 1

IX. PROPOSED MODIFICATION

A. New Wash Bay

1. Target date for construction - 2nd Qt. 1992
Completion date - 3rd Qt. 1992

B. New Fueling Station

1. Construction date - 1st Qt. 1992
Completion date - 2nd Qt. 1992

C. Maintenance Shop

1. At present, have on site discharge of effluents (soap/water from shop. Proposed modification is a grated trough on the east and west sides of shop connecting the south side to a collection sump w/pump, that will transfer fluids to a re-cycling & P.H. adjustment system at the wash bay. Construction and completion date will coincide with A & B.

D. Pit Closures

1. All existing pits will receive a clean closure by 2nd Qt. 1993.
New pits will have leak detection systems.

See 9.1 E.Q. Manual (attached)

SECTION 9

SURFACE IMPOUNDMENT CLOSURE GUIDELINES

OBJECTIVE

A surface impoundment or pit is intended to be operated in such a way that it does not pose a threat to groundwater contamination. Where possible DS is eliminating surface impoundments and disposing of nonhazardous wastewater by other means such as a sewer plant or saltwater disposal well.

When required, closure of a surface impoundment should demonstrate to regulatory agencies the extent, if any, to which the impoundment may have contaminated the groundwater. This can be done, in some cases, by showing analyses of the wastewater and soil at the bottom of the impoundment. If no hazardous materials remain, the government agency may agree to closure as a nonhazardous surface impoundment.

If significant levels of government-listed hazardous substances are found at the bottom of the impoundment, core samples may be required all the way to the water table and a monitor well installed to provide access to the uppermost aquifer for evaluation of groundwater quality. This usually requires supervision by a consulting hydrogeological firm and their independent evaluation.

The first effort by DS is to evaluate the surface impoundment in accordance with the following guidelines.

A. SAMPLING PROCEDURE

1. A sampling grid should be formulated for collecting both water and soil samples from an impoundment. Figure 1 is an example of a grid. Samples collected must be representative of the area evaluated.
2. Follow all Procedures for Environmental Samples listed in Chapter 8.

B. FILING OF CLOSURE PLAN WITH GOVERNMENT AGENCY

1. Based on the analyses done to define the quality of the wastewater and the underlying soil, use the flowchart in Figure 2 to decide if the surface impoundment is free of nonhazardous materials. The flowchart in Figure 2 is a minimum guideline; some governments require additional tests.

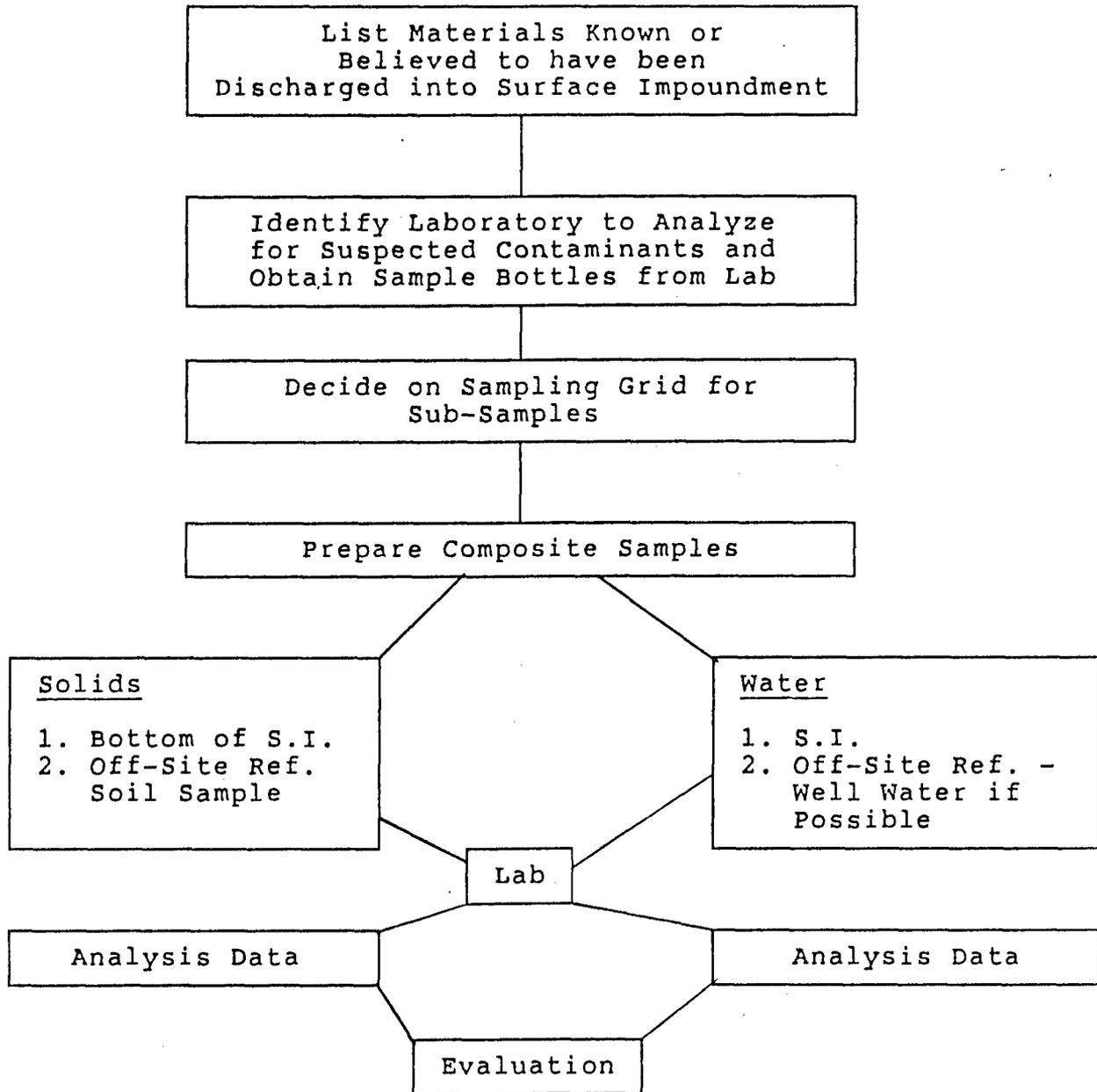
2. Obtain guidelines for preparing a closure plan from the appropriate government agency.
3. Prepare closure plan to include any additional studies to be done and submit to government agency for approval.
4. Obtain reply from government agency. It may impose additional requirements other than those DS has proposed and very likely will assign waste disposal codes for the disposal of contaminated water and soil.

C. DISPOSAL OF CONTAMINATED MATERIALS (as required by country law)

1. Follow all applicable regulations for Hazardous Waste (see Chapter 12).
2. Follow approved closure plan for classification of contaminated materials.
3. Identify appropriate disposal sites in the area and contact the authorities for any requirements they may have such as filing a Waste Profile Sheet for approval along with a sample of the material for which disposal is desired.
4. Arrange for an authorized transporter to take the waste material from the DS site to the disposal site.
5. Prepare manifests to accompany the shipments, one for each transport load.
6. Where excavation is involved, take samples of the boundaries of the excavated areas (sides and bottom) and have analyses done to determine the extent to which the contaminants have been removed.

FIGURE 2

FLOW CHART FOR SURFACE IMPOUNDMENT EVALUATION



X. INSPECTION, MAINTENANCE & REPORTING

A. See Inspection Report

1. Frequency - weekly
2. Records kept on file at facility for three (3) years.
3. Notification of "OCD" within 24 hrs. of a found leak.

B. Sampling and Analytical Data

1. Frequency - annual
2. Reporting - annual

C. Containment - Offsite Discharge

1. Absorbents placed at known areas of run off from site.
(See A. above)

XI. SPILL/LEAK PREVENTION AND REPORTING PROCEDURES

(see attached)

Also, will be submitting
A copy of our "SPEC"
Plan. As soon as
we receive the
Houston, we will
be next week.

(Signature)



**DOWELL SCHLUMBERGER
INCORPORATED**

P.O. BOX 640

HOBBS, NEW MEXICO 88241

DATE: _____
INSPECTOR: _____

FACILITY INSPECTION REPORT

PARKING AREA

- 1. Is area maintained free of recent spills or discharges? YES ___ NO ___
- 2. Are booms properly in place? YES ___ NO ___
- 3. Is the condition of the booms satisfactory? YES ___ NO ___
- 4. Is the security fence in good condition? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

WASTE STORAGE

- 1. Are containers stored closed? YES ___ NO ___
- 2. Are containers maintained in good condition, free of rust dents, bulged, leaks? YES ___ NO ___
- 3. Is accumulation date marked on each container? YES ___ NO ___
- 4. Are containers properly labeled? YES ___ NO ___
- 5. Are contents marked on container? YES ___ NO ___
- 6. Is storage time for hazardous waste within the exemption (< 90 days)? YES ___ NO ___
- 7. Is there adequate aisle space present between drums to allow unobstructed movement for emergency response? YES ___ NO ___
- 8. Are over packs available? YES ___ NO ___
- 9. Is the area maintained free of spills, discharges and stormwater? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

CHEMICAL DRUM STORAGE

- 1. Are drums segregated? YES ___ NO ___
- 2. Are drums placed on pallets? YES ___ NO ___
- 3. Are all drums labeled? YES ___ NO ___
- 4. Are drums maintained in good condition, free of sever rust, bulges, dents, leaks? YES ___ NO ___
- 5. Is there adequate aisle space present between drums to allow unobstructed movement for emergency response? YES ___ NO ___
- 6. Are empty containers sealed? YES ___ NO ___
- 7. Is revetment in satisfactory condition? YES ___ NO ___
- 8. Is area maintained free of spills, discharges and stormwater? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

SLURRY PLANT

- 1. Are all tanks labeled as to contents and hazard? YES ___ NO ___
- 2. Is visible condition of tanks satisfactory? YES ___ NO ___
- 3. Are piping, valves and pumps maintained in good condition free of rust, dents, leaks? YES ___ NO ___
- 4. Is revetment in satisfactory condition? YES ___ NO ___
- 5. Is truck loading area free from spills? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION

COMMENTS:

WAREHOUSE AND HEAD DOCK

1. Is area maintained free of spills, leaks and discharges?

YES ___ NO ___

2. Is there adequate aisle space between pallets to allow unobstructed movement for emergency response?

YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

OIL STORAGE/OIL SEPARATOR

- 1. Is area maintained free of spills or discharges? YES ___ NO ___
- 2. Is oil skimmer maintained in good condition? YES ___ NO ___
- 3. Are used oil and fuel filters properly stored? YES ___ NO ___
- 4. Is revetment in satisfactory condition? YES ___ NO ___
- 5. Are tanks labeled as to contents and hazard? YES ___ NO ___
- 6. Is visible condition of tanks satisfactory? YES ___ NO ___
- 7. Are full waste containers removed from accumulation area? YES ___ NO ___
- 8. Are waste containers stored closed and properly labeled? YES ___ NO ___
- 9. Are valves and pumps maintained free of rust, dents, leaks? YES ___ NO ___
- 10. Is sump pump working? YES ___ NO ___
- 11. Is 180 bbl tank currently adequate? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

SHOP/PAINT STORAGE

- 1. Is area maintained free of spills or discharges? YES ___ NO ___
- 2. Is the capacity of the sump system currently adequate? YES ___ NO ___
- 3. Is Safety Kleen confined to the cleaning station? YES ___ NO ___
- 4. Is paint thinner stored properly? YES ___ NO ___
- 5. Are used batteries being stored properly, i.e. closed, covered and on pallets? YES ___ NO ___
- 6. Are all containers properly labeled? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

FUEL ISLAND

- 1. Are tanks labeled as to contents and hazard? YES ___ NO ___
- 2. Is visible condition of tanks satisfactory? YES ___ NO ___
- 3. Is revetment in satisfactory condition and maintained free of spills and stormwater? YES ___ NO ___
- 4. Is fueling area maintained free of spills? YES ___ NO ___
- 5. Is yard area around fueling facility maintained in good condition and free of evidence of spills or discharges? YES ___ NO ___

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

EMERGENCY RESPONSE EQUIPMENT

Are the following items in working order?

- | | |
|-----------------------------|----------------|
| 1. Absorbent booms | YES ___ NO ___ |
| 2. Absorbent pads | YES ___ NO ___ |
| 3. Full face respirators | YES ___ NO ___ |
| 4. S C B A' s | YES ___ NO ___ |
| 5. First aid kit | YES ___ NO ___ |
| 6. 3 gallon sprayer | YES ___ NO ___ |
| 7. Rubber Gloves | YES ___ NO ___ |
| 8. Disposable gloves | YES ___ NO ___ |
| 9. Chemical suits | YES ___ NO ___ |
| 10. Disposable suits | YES ___ NO ___ |
| 11. Disposable boots | YES ___ NO ___ |
| 12. Flash lights | YES ___ NO ___ |
| 13. Shovels | YES ___ NO ___ |
| 14. Rakes | YES ___ NO ___ |
| 15. Communication equipment | YES ___ NO ___ |

**A mark in this column requires corrective action

CORRECTIVE ACTION:

SECTION 4

SPILL PREVENTION AND CONTROL

A. GUIDELINES FOR DS SPILL CONTAINMENT AND BEST MANAGEMENT PRACTICES PROGRAM

The objectives of these guidelines is to contain and control unexpected discharges of substances which could damage public or private property or adversely affect the environment, air, ground, and surface or subsurface waters, including public-owned treatment works.

1. Diking will be provided for secondary containment of hazardous substances. All diking and other containment devices shall be consistent with sound engineering practices, loss prevention principles and environmental regulations.
2. New facility construction and major facility upgrading shall be designed so that unexpected discharges of hazardous products will be contained on DS property and measures will be taken to prevent it from entering or adversely affecting the environment. Existing facilities will be evaluated and controls devised to contain unexpected discharges.
3. With continued emphasis by government agencies to regulate the management of all phases of hazardous substances and wastes, it is imperative that DS secure proper permits prior to beginning construction of new facilities or making changes to existing facilities. Location facilities with existing environmental permits, or those that have not been required to have permits in the past, may be required to obtain permits prior to changes or modifications.
4. Strong emphasis should be put on drainage, water tables, future growth, sewer availability and capability, and low-profile locations for future siting of DS locations.
5. Written procedures will be developed to document a Spill Prevention Control and Countermeasures (SPCC) and Best Management Practices Program. Records of preventive maintenance, housekeeping and training practices must be kept current at all times.

B. SPILL CONTROL - STORAGE AND DRAINAGE RECOMMENDATION

1. Bulk Liquid Chemical Storage and Mixing Areas (HCl, HF, P121, ZnBr₂), diesel fuel, methanol and all other liquid bulk stored chemicals or additives).

- (a) All bulk liquid chemical storage and hazardous waste tanks shall have a containment system to prevent losses from entering groundwater, soil, navigable waters and sewer systems, or otherwise creating an environmental or a personnel hazard.
- (b) Various types of containment systems have been used in DS. A satisfactory tank-farm containment system will meet the following design criteria.
 - (1) Volume of containment must be 110% of the largest container in the containment not including the volume displaced by tanks and other equipment in the containment.
 - (2) Dike and interior floor must be liquid tight and designed to withstand a full hydrostatic head of the fluid being contained. Materials of construction will have a permeability of 1×10^{-7} centimeters/second or less, which is about 1/10 of an inch per year.
 - (3) Drainage of all fluids from containments must be routed in such a manner to allow for proper testing and treatment prior to any discharge. There will be no openings in the containment system. Annual hydrostatic testing of the containment system will be conducted and documented.
- (c) Bulk chemical tanks requiring fume scrubbers such as HF, HCl or VERTAN* 675 may generate hazardous wastes as a result of the scrubber action. These wastes may be subject to hazardous waste regulations (see No. 7 below).

2. Drummed Product Storage

- (a) Drummed chemicals shall be stored in an area designed to contain a spill that may result from the rupture of a container.
- (b) Sloped and/or curbed concrete slabs provide the best type of containment for storage of these containers. A slope of a minimum of 1% should be incorporated in the design of these slabs.
- (c) Consideration must be given to safe and efficient handling of the containers, collection and removal of spills, and control of rainwater or snow melt runoff.

* Trademark or Service Mark of Dowell Schlumberger

(d) Spills or stormwater runoff shall never be allowed to drain directly into sewer systems or lagoons.

3. Tank Truck/Car Loading and Unloading Facilities

(a) These areas will be designed with a spill containment area for treatment or disposal.

(b) Consideration must be given to containment size (minimum 110% of largest truck). Design will minimize the amount of stormwater entering the containment.

(c) Diversionary systems will be provided if needed to prevent spills from entering sewer system lines.

4. Dry Bulk Product Storage and Handling

(a) Driveways and truck traffic ways must be paved to prevent "fugitive" dust.

(b) Properly designed and operating dust collector is required on any dry product storage or handling system that is loaded or unloaded pneumatically. If excessive dust is generated by mechanical handling equipment, dust collectors on the system will also be necessary. Minimum air flow rate to bag surface area is a 3:1 ratio cu ft/sq ft.

(c) All dry products bagged or in bulk will be handled so that "fugitive" dust does not leave DS property.

5. General Facility Drainage

(a) The yard drainage of a new or modified location facility will be designed to prevent stormwater or chemical spills from directly entering a sewer system or from affecting permanent structures on the facility.

(b) The exit point or points of runoff will be noted on plot plans so that the operator of the facility can develop emergency spill containment plans.

6. Used Motor Oils and Solvents

a) Used oil and used chlorinated solvents must be provided with and stored in separate containers.

(b) Used oils will be recycled where feasible by selling or transferring ownership to a government-approved oil reclaimer.

(c) Used chlorinated solvents.

- (1) Consider local or regional system to reclaim solvent if practical.
- (2) Consider location reclamation system if applicable.
- (3) Transfer ownership to government-approved solvent reclaimer.

7. Wastewater Handling and Disposal

- (a) Acid fume scrubber water and acid transport rinse water.
 - (1) Must never be reused for acid dilution; such reuse is a violation of the DS Quality Assurance Policy.
 - (2) If excess is generated, it may be completely neutralized and disposed of as a nonhazardous waste.
- (b) Truck wash wastewater.
 - (1) Recycle waters only for reuse in truck wash to remove oil and solids.
 - (2) This water (even after treatment) cannot be used for acid dilution; such reuse is a violation of DS Quality Assurance Policy.
 - (3) If excess is generated, after proper treatment, it may be sent to a sanitary sewer system (if allowed by local regulations) or saltwater disposal well.

8. Stormwater

- (a) Minimize uncontaminated stormwater entrance into sewer or lagoon.
- (b) Preference will be given to use public sewer systems for disposal of process area stormwater.
- (c) Cover (roof) all areas having drains connected to sewer system or lagoon or use rain stop valves.
- (d) Design entire facility to direct nonprocess area stormwater away from sewer drains, separator tanks and lagoons.
- (e) Stormwater collected inside diked areas and other chemical process areas will be tested prior to discharge. If contaminated, it will be disposed of in accordance with government permits or as a waste.

- (f) Stormwater must be handled in accordance with all government regulations. Permits may be required for discharge to sewer or surface. Contaminated stormwater cannot be discharged to a ditch except as allowed in applicable government permits.

9. General

- (a) Avoid the necessity for surface discharge permits for wastewater by using the public sewer system (if allowed by local regulations) or other waste disposal method.
- (b) Emphasize recycle/reuse of wastewaters and other potential wastes; however, these must never be used in products or services.
- (c) Avoid use of lagoons or ponds for wastewater storage. These may require permits.
- (d) Review adequacy of pretreatment system, neutralization beds, oil and mud separators, etc. These must be inspected weekly for proper functioning; the inspection must be documented.
- (e) Plan a designated empty drum storage area out of sight. Used drums must have bungs in place, and stored in a manner that residual chemicals cannot contaminate the ground or stormwater runoff.

SECTION 13

REPORTING SPILLS

Call the DS EMERGENCY RESPONSE SYSTEM (TELEPHONE NO. (918) 582-0104) immediately if any of the following events occur.

- Any chemical spill, regardless of amount, from transport vehicles, storage facilities or damaged containers.
- Any motor vehicle accident in which there is a chemical spill of any amount or the vehicle is carrying a radioactive source.
- Personnel exposure to chemicals.

AN ER TEAM MEMBER WILL ASSIST IN MAKING THE REQUIRED IMMEDIATE REPORTS TO GOVERNMENT AGENCIES AND THE REQUIRED FOLLOW-UP WRITTEN REPORTS TO THE AGENCIES.

Regulations for reporting spills are constantly changing. Most spills, regardless of quantity, must be reported to some government agency. In many cases, "immediate reporting" and follow-up written reports are required. If spills are not promptly and properly reported, expensive fines and other penalties can result. Individuals are personally liable if spills are not correctly and immediately reported.

DOWELL SCHLUMBERGER EMERGENCY RESPONSE SYSTEM

The Dowell Schlumberger Emergency Response System is designed to provide immediate action response information to the scene of a transportation, medical or environmental emergency. Timely, accurate response information is the key to a successful E/R plan. The DS E/R system operates 24 hours per day, 7 days per week.

DS E/R PLAN

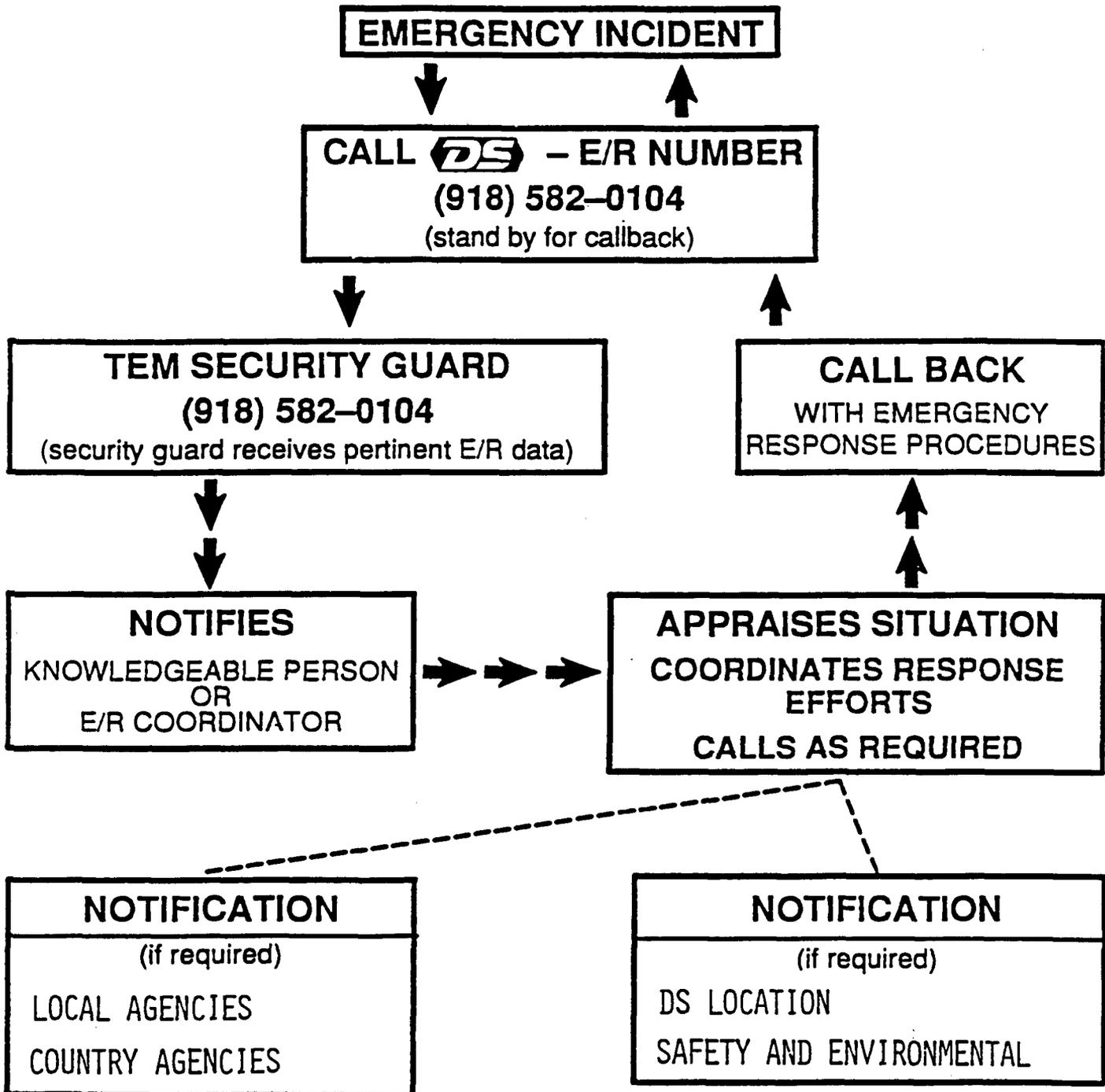
I. INCIDENT

- A. *CHEMICAL SPILLS from transport vehicles, storage facilities or damaged containers.*
- B. *MOTOR VEHICLE ACCIDENTS in which there is a chemical spill or the vehicle is carrying a radioactive material.*
- C. *PERSONNEL EXPOSURES to chemicals.*

II. ACTION

- A. *FIRST AID for exposure or injury if required.*
- B. *ISOLATE AREA by roping off or diking as appropriate.*
- C. *DO NOT discuss liability with anyone.*
- D. *TELEPHONE (918) 582-0104. THE DOWELL SCHLUMBERGER EMERGENCY RESPONSE NUMBER should be called on all such emergencies. Be prepared to provide the following information:*
 - 1. *Nature of the problem - chemical spill, personnel exposure, MVA with chemical spill or radioactive source, etc.;*
 - 2. *Amount and type of chemical spill;*
 - 3. *Location of incident.*
- E. *STAND BY for callback from Knowledgeable Person. The KP, after appraising the situation will offer any appropriate immediate help as well as notify local locations, authorities or DS Departments as warranted.*
- F. *WHEN NECESSARY IMMEDIATE NOTIFICATION or WRITTEN REPORTS to government agencies will be made by the DS Department having responsibility for that agency. The KP will prepare a summary of the incident and his actions taken.*
- G. *DISCUSS the E/R plan in safety meetings and POST on the permanent section of the bulletin board at each DS location.*

EMERGENCY COMMUNICATIONS NETWORK



HYDROGEOLOGY

The geologic formation present at ground surface is the Tertiary Ogallala which consists of unconsolidated sands, silts, clays, and gravel, capped by caliche (Barnes, 1976). The caliche cap at the site is approximately 25 to 35 feet thick and is quite variable in thickness and composition. Beneath the caliche cap is orange-brown or yellow-brown fine-grained sand and sandstone with minor amounts of gravel. The thickness for the Ogallala is approximately 100 feet in the area (Barnes, 1976). The Ogallala is underlain by red siltstones and claystones of Mesozoic age, referred to locally as the "red beds" (Richey et al., 1985).

The Ogallala Formation is the major aquifer in the Southern High Plains region and is pumped extensively for municipal, industrial, and agricultural purposes. Recharge to the Ogallala is primarily from infiltration of precipitation. Infiltration rates are locally variable, with highs occurring in areas such as the sand dune fields east of Hobbs and lows occurring where thick, extensive caliche layers are present.

Depth-to-water in the region has gradually increased over the past years because of excessive pumping. The water table at the site is approximately 68 to 70 feet below ground surface. The hydraulic gradient in the Ogallala aquifer near the site is approximately 15 feet per mile in a southeasterly direction (Cronin, 1969).

Ground water from the Ogallala is generally suitable for all purposes. Historical records indicate that total dissolved solids typically range from approximately 300 to 700 milligrams per liter (mg/L), chloride from 30 to 170 mg/L, and sulfate from 60 to 160 mg/L (Ash, 1963).

LEGENDS
FACILITY / OFFSITE DISPOSAL

FACILITY LEGEND

- T1 = WASTEWATER TANK
T2 = USED MOTOR OIL TANK
T3 = CEMENT BLOW-DOWN TANK
T4 = BIN FOR SAND STORAGE
- S1 = CONCRETE IL SKIMMER SUMP (WASH BAY)
S2 = CONCRETE ACID DOCK SUMP
S3 = CONCRETE LABORATORY SUMP
- L1 = CONCRETE LINED WASH BAY PIT
L2 = CONCRETE LINED ACID DOCK PIT
- F1 = CONCRETE WASH BAY FLOOR DRAIN
F2 =
- D1 = SAFETY-KLEEN DRUMS
D2 = USED DRUM STORAGE AREA
D3 = SATELLITE USED MOTOR OIL DRUMS
D4 = "SATELLITE" OIL SKIMMER DRUM
D5 = WASTE STORAGE AREA
D6 = "SATELLITE" ANTIFREEZE DRUM

OFFSITE DISPOSAL LEGEND

1. WASTE STREAMS FROM TRANSPORT RINSATE, TRUCK WASHWATER AND MAINTENANCE SHOP WASHWATER, LAB WASTEWATER ARE COMBINED FOR OFF-SITE DISPOSAL AT C.R.I.
2. SOLVENT/DEGREASER IS SUPPLIED AND RECLAIMED ONCE USED BY SAFETY-KLEEN, INC.
3. USED MOTOR OIL AND ANTIFREEZE IS SENT OFF-SITE FOR RECLAMATION TO BE RE-USED AS FUEL.
4. USED OIL FILTERS ARE DRAINED AND DISPOSED AT THE LOCAL CITY LANDFILL VIA STORAGE IN DUMPSTER.
5. DISPOSAL OF CEMENT/SAND: SAND DISPOSAL - WASTE MANAGEMENT CITY LANDFILL; CEMENT DISPOSAL - REUSED FOR FENCE POSTS, SMALL SLAB GIVE AWAY.
6. CITY SEWER EXPLANATION: AT PRESENT NOT DISCHARGING THROUGH CITY SEWER. EXPECT TO BY END OF 1991.
7. USED DRUMS AND 5-GAL CONTAINERS ARE RECONDITIONED BY WEST TEXAS DRUM COMPANY.
8. HAVE NOT DISPOSED OF CONT. SOIL, BUT ARE ARRANGING W/NON-HAY DISP. COMPANY; ANY HAZARDOUS CONT. SOIL IS SCHEDULED FOR DOW INCINERATION, HOWEVER, WE HAVE NOT GENERATED...
9. NOT DISPOSED - USED ON-SITE FOR FILL OFF-SITE



OIL CONSERVATION DIVISION
RECEIVED

DOWELL SCHLUMBERGER
INCORPORATED

91 JUN 26 AM 8 51

Boyer

P.O. BOX 640

HOBBS, NEW MEXICO 88241

June 24, 1991

Mr. William J. Lemey
Director of Oil Conservation Division
State of New Mexico

Dear Mr. Lemey,

This letter is being submitted to formally request an extension of three (3) weeks on our Discharge Plan. The original due date was June 26, 1991. However, circumstances involving a recent change in responsibilities within our company has left us in a state of transition. We now have a new Division Environmental Manager, "Mr. Daniel Chang". The extension would permit Mr. Chang to familiarize himself, as well as, enabling him to have direct input into the plan prior to submission to "OCD".

On Friday, June 21, 1991, Mr. Roger Anderson, (OCD) gave us tentative approval for the extension, but did ask that we follow up with a formal request to you.

We believe that three (3) weeks would be sufficient time for our state of transition to manifest, and with your approval your office can expect to receive our Discharge Plan on or before July 17, 1991.

Your cooperation in this matter is appreciated. If you have any questions please call.

Regards,

M.L. Wood Jr.
Safety & Environmental Coordinator
(505) 393-6186



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

BRUCE KING
GOVERNOR

February 26, 1991

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-327-278-088

Mr. Jim Flowers, Manager
Dowell Schlumberger
1105 W. Bender Blvd.
Hobbs, New Mexico 88240

RE: Discharge Plan GW-73
Hobbs Service Facility
Lea County, New Mexico

Dear Mr. Flowers:

Under the provisions of the Water Quality Control Commission (WQCC) Regulations, you are hereby notified that the filing of a discharge plan is required for your existing Hobbs Service Facility located in Section 28, Township 18 South, Range 38 East (NMPM), Lea County, New Mexico.

This notification of discharge plan requirement is pursuant to Sections 3-104 and 3-106 of the WQCC Regulations. The discharge plan, defined in Section 1.101.P. of the WQCC Regulations, should cover all discharges of effluent or leachate at the plant site or adjacent to the plant site. Included in the application should be plans for controlling spills and accidental discharges at the facility (including detection of leaks in buried underground tanks and/or piping), and closure plans for any ponds whose use will be discontinued.

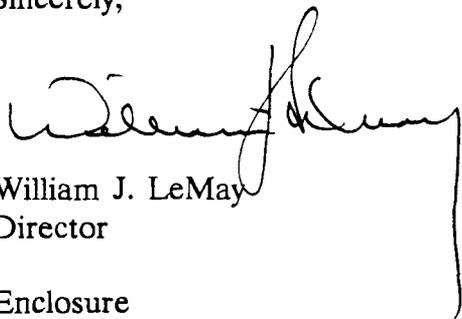
A copy of the regulations and application form is enclosed for your convenience. Also enclosed is a copy of an OCD guide to the preparation of discharge plans for oilfield service facilities.

Section 3-106.A of the regulations requires a submittal of the discharge plan within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Section 3-106.A also allows the discharge to continue without an approved discharge plan until 240 days after written notification by the Director of the OCD that a discharge plan is required. An extension of this time may be sought and approved for good cause.

Mr. Jim Flowers
February 26, 1991
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If there are any questions on this matter, please feel free to call David Boyer at 827-5812, or Roger Anderson at 827-5884 as they have the assigned responsibility for review of all discharge plans.

Sincerely,



William J. LeMay
Director

Enclosure

WJL/RCA/sl

cc: Hobbs OCD Office

393 6186