

GW - 114

**PERMITS,
RENEWALS,
& MODS
Application**

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 4/25/08

or cash received on in the amount of \$ 1700⁰⁰

from Schlumberger

for GW-114

Submitted by: Lawrence Renfro Date: 8/29/08

Submitted to ASD by: Lawrence Renfro Date: 8/29/08

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.

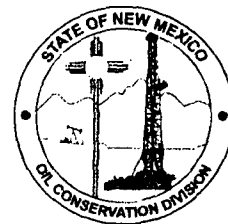
Full Payment ☒ or Annual Increment

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



April 18, 2008

RECEIVED

Darwin Thompson
Schlumberger Oil Field Services
507 East Richey Ave.
Artesia, New Mexico 88210

APR 28 2008
Environmental Bureau
Oil Conservation Division

Re: Discharge Permit Renewal (GW-114)
Schlumberger Oil Field Services – Artesia Facility
S/2 SW/4 Section 4, Township 17 South, Range 26 East, NMPM,
Eddy County, New Mexico,

Dear Mr. Thompson:

Pursuant to Water Quality Control Commission (WQCC) Regulations 20.6.2.3104 - 20.6.2.3114 NMAC, the Oil Conservation Division (OCD) hereby approves the discharge permit for the **Schlumberger Oil Field Services** (owner/operator) for the above referenced site contingent upon the conditions specified in the enclosed **Attachment to the Discharge Permit**. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter including permit fees.**

Please be advised that approval of this permit does not relieve the owner/operator of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does approval of the permit relieve the owner/operator of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If you have any questions, please contact Edward J. Hansen of my staff at (505-476-3489) or E-mail edwardj.hansen@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

A handwritten signature in black ink, appearing to read "Wayne Price".

Wayne Price
Environmental Bureau Chief

LWP/ejh
Attachments-1
xc: OCD District Office



ATTACHMENT- DISCHARGE PERMIT APPROVAL CONDITIONS

- 1. Payment of Discharge Plan Fees:** All discharge permits are subject to WQCC Regulations. Every billable facility that submits a discharge permit application will be assessed a filing fee of \$100.00, plus a flat fee (*see* WQCC Regulation 20.6.2.3114 NMAC). The Oil Conservation Division ("OCD") has received the required \$100.00 filing fee. The flat fee for an oil and gas service company is \$1,700.00. Checks should be made out to the **New Mexico Water Quality Management Fund**.
- 2. Permit Expiration, Renewal Conditions and Penalties:** Pursuant to WQCC Regulation 20.6.2.3109.H.4 NMAC, this permit is valid for a period of five years. **The permit will expire on December 2, 2012** and an application for renewal should be submitted no later than 120 days before that expiration date. Pursuant to WQCC Regulation 20.6.2.3106.F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. *Expired permits are a violation of the Water Quality Act {Chapter 74, Article 6, NMSA 1978} and civil penalties may be assessed accordingly.*
- 3. Permit Terms and Conditions:** Pursuant to WQCC Regulation 20.6.2.3104 NMAC, when a permit has been issued, the owner/operator must ensure that all discharges shall be consistent with the terms and conditions of the permit. In addition, all facilities shall abide by the applicable rules and regulations administered by the OCD pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-1 through 70-2-38.
- 4. Owner/Operator Commitments:** The owner/operator shall abide by all commitments submitted in its November 27, 2007, discharge plan application, including attachments and subsequent amendments and these conditions for approval. Permit applications that reference previously approved plans on file with the division shall be incorporated in this permit and the owner/operator shall abide by all previous commitments of such plans and these conditions for approval.
- 5. Modifications:** WQCC Regulation 20.6.2.3107.C and 20.6.2.3109 NMAC addresses possible future modifications of a permit. The owner/operator (discharger) shall notify the OCD of any facility expansion, production increase or process modification that would result in any significant modification in the discharge of water contaminants. The Division Director may require a permit modification if any water quality standard specified at 20.6.2.3103 NMAC is being or will be exceeded, or if a toxic pollutant as defined in WQCC Regulation 20.6.2.7 NMAC is present in ground water at any place of withdrawal for present or reasonably foreseeable future use, or that the Water Quality Standards for Interstate and Intrastate streams as specified in 20.6.4 NMAC are being or may be violated in surface water in New Mexico.
- 6. Waste Disposal and Storage:** The owner/operator shall dispose of all wastes at an OCD-approved facility. Only oil field RCRA-exempt wastes may be disposed of by injection in a Class II well. RCRA non-hazardous, non-exempt oil field wastes may be disposed of at an OCD-approved facility upon proper waste determination pursuant to 40 CFR Part 261. Any waste

stream that is not listed in the discharge permit application must be approved by the OCD on a case-by-case basis.

A. OCD Rule 712 Waste: Pursuant to OCD Rule 712 (19.15.9.712 NMAC) disposal of certain non-domestic waste without notification to the OCD is allowed at NMED permitted solid waste facilities if the waste stream has been identified in the discharge permit and existing process knowledge of the waste stream does not change.

B. Waste Storage: The owner/operator shall store all waste in an impermeable bermed area, except waste generated during emergency response operations for up to 72 hours. All waste storage areas shall be identified in the discharge permit application. Any waste storage area not identified in the permit shall be approved on a case-by-case basis only. The owner/operator shall not store oil field waste on-site for more than 180 days unless approved by the OCD.

7. Drum Storage: The owner/operator must store all drums, including empty drums, containing materials other than fresh water on an impermeable pad with curbing. The owner/operator must store empty drums on their sides with the bungs in place and lined up on a horizontal plane. The owner/operator must store chemicals in other containers, such as tote tanks, sacks, or buckets on an impermeable pad with curbing.

8. Process, Maintenance and Yard Areas: The owner/operator shall either pave and curb or have some type of spill collection device incorporated into the design at all process, maintenance, and yard areas which show evidence that water contaminants from releases, leaks and spills have reached the ground surface.

9. Above Ground Tanks: The owner/operator shall ensure that all aboveground tanks have impermeable secondary containment (e.g., liners and berms), which will contain a volume of at least one-third greater than the total volume of the largest tank or all interconnected tanks. The owner/operator shall retrofit all existing tanks before discharge permit renewal. Tanks that contain fresh water or fluids that are gases at atmospheric temperature and pressure are exempt from this condition.

10. Labeling: The owner/operator shall clearly label all tanks, drums, and containers to identify their contents and other emergency notification information. The owner/operator may use a tank code numbering system, which is incorporated into their emergency response plans.

11. Below-Grade Tanks/Sumps and Pits/Ponds.

A. All below-grade tanks and sumps must be approved by the OCD prior to installation and must incorporate secondary containment with leak detection into the design. The owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal. All existing below-grade tanks and sumps without secondary containment and leak detection must be tested annually or as specified herein. Systems that have secondary containment with leak detection shall have a monthly inspection of the leak detection system to determine if the primary containment is leaking. Small sumps or depressions in secondary containment systems used to facilitate fluid removal are exempt from these requirements if fluids are removed within 72 hours.

B. All pits and ponds, including modifications and retrofits, shall be designed by a certified registered professional engineer and approved by the OCD prior to installation. In general, all pits or ponds shall have approved hydrologic and geologic reports, location, foundation, liners, and secondary containment with leak detection, monitoring and closure plans. All pits or ponds shall be designed, constructed and operated so as to contain liquids and solids in a manner that will protect fresh water, public health, safety and the environment for the foreseeable future. The owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal.

C. The owner/operator shall ensure that all exposed pits, including lined pits and open top tanks (8 feet in diameter or larger) shall be fenced, screened, netted, or otherwise rendered non-hazardous to wildlife, including migratory birds.

D. The owner/operator shall maintain the results of tests and inspections at the facility covered by this discharge permit and available for OCD inspection. The owner/operator shall report the discovery of any system which is found to be leaking or has lost integrity to the OCD within 15 days. The owner/operator may propose various methods for testing such as pressure testing to 3 pounds per square inch greater than normal operating pressure and/or visual inspection of cleaned tanks and/or sumps, or other OCD-approved methods. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

12. Underground Process/Wastewater Lines:

A. The owner/operator shall test all underground process/wastewater pipelines at least once every five (5) years to demonstrate their mechanical integrity, except lines containing fresh water or fluids that are gases at atmospheric temperature and pressure. Pressure rated pipe shall be tested by pressuring up to one and one-half times the normal operating pressure, if possible, or for atmospheric drain systems, to 3 pounds per square inch greater than normal operating pressure, and pressure held for a minimum of 30 minutes with no more than a 1% loss/gain in pressure. The owner/operator may use other methods for testing if approved by the OCD.

B. The owner/operator shall maintain underground process and wastewater pipeline schematic diagrams or plans showing all drains, vents, risers, valves, underground piping, pipe type, rating, size, and approximate location. All new underground piping must be approved by the OCD prior to installation. The owner/operator shall report any leaks or loss of integrity to the OCD within 15 days of discovery. The owner/operator shall maintain the results of all tests at the facility covered by this discharge permit and they shall be available for OCD inspection. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

13. Class V Wells: The owner/operator shall close all Class V wells (e.g., septic systems, leach fields, dry wells, etc.) that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes unless it can be demonstrated that ground water will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD-regulated facilities that inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that

inject domestic waste only, must be permitted by the New Mexico Environment Department (NMED).

14. Housekeeping: The owner/operator shall inspect all systems designed for spill collection/prevention and leak detection at least monthly to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices shall be emptied of fluids within 72 hours of discovery. The owner/operator shall maintain all records at the facility and available for OCD inspection.

15. Spill Reporting: The owner/operator shall report all unauthorized discharges, spills, leaks and releases and conduct corrective action pursuant to WQCC Regulation 20.5.12.1203 NMAC and OCD Rule 116 (19.15.3.116 NMAC). The owner/operator shall notify both the OCD District Office and the Santa Fe Office within 24 hours and file a written report within 15 days.

16. OCD Inspections: The OCD may place additional requirements on the facility and modify the permit conditions based on OCD inspections.

17. Storm Water: The owner/operator shall implement and maintain run-on and runoff plans and controls. The owner/operator shall not discharge any water contaminant that exceeds the WQCC standards specified in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) including any oil sheen in any stormwater run-off. The owner/operator shall notify the OCD within 24 hours of discovery of any releases and shall take immediate corrective action(s) to stop the discharge.

18. Unauthorized Discharges: The owner/operator shall not allow or cause water pollution, discharge or release of any water contaminant that exceeds the WQCC standards listed in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) unless specifically listed in the permit application and approved herein. **An unauthorized discharge is a violation of this permit.**

19. Vadose Zone and Water Pollution: The owner/operator shall address any contamination through the discharge permit process or pursuant to WQCC 20.6.2.4000-.4116 NMAC (Prevention and Abatement of Water Pollution). The OCD may require the owner/operator to modify its permit for investigation, remediation, abatement, and monitoring requirements for any vadose zone or water pollution. Failure to perform any required investigation, remediation, abatement and submit subsequent reports will be a violation of the permit.

20. Additional Site Specific Conditions: The owner/operator shall submit a plan for active groundwater contamination plume containment at the site to the OCD within 10 days of this discharge permit date for OCD review and approval. The plan must include proposed groundwater recovery well(s) location(s), and proposed method(s) of recovered groundwater treatment and / or disposal. Also, the plan must include a schedule for implementing the plume containment. The owner/operator shall remediate the groundwater contamination at the site in accordance with an OCD-approved plan.

21. Transfer of Discharge Permit (WQCC 20.6.2.3111) Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of a facility with a discharge

permit, the transferor shall notify the transferee in writing of the existence of the discharge permit, and shall deliver or send by certified mail to the department a copy of such written notification, together with a certification or other proof that such notification has in fact been received by the transferee.

Upon receipt of such notification, the transferee shall have the duty to inquire into all of the provisions and requirements contained in such discharge permit, and the transferee shall be charged with notice of all such provisions and requirements as they appear of record in the department's file or files concerning such discharge permit. The transferee (new owner/operator) shall sign and return an original copy of these permit conditions and provide a written commitment to comply with the terms and conditions of the previously approved discharge permit.

22. Closure Plan and Financial Assurance: Pursuant to 20.6.2.3107 NMAC an owner/operator shall notify the OCD when any operations of the facility are to be discontinued for a period in excess of six months. Prior to closure, or as a condition of this permit, or request from the OCD, the operator will submit an approved closure plan, modified plan, and/or provide adequate financial assurance.

23. Certification: (Owner/Operator), by the officer whose signature appears below, accepts this permit and agrees to comply with all submitted commitments, including these terms and conditions contained here. **Owner/Operator** further acknowledges that the OCD may, for good cause shown, as necessary to protect fresh water, public health, safety, and the environment, change the conditions and requirements of this permit administratively.

Conditions accepted by: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment."

Schlumberger Technology Corp
Company Name-print name above

Darwin Thompson
Company Representative- print name

Darwin Thompson
Company Representative- Signature

Title Facility Manager

Date: 4-25-08

Affidavit of Publication

NO. _____

STATE OF NEW MEXICO

County of Eddy:

WALTER GREEN

being duly

sworn, says: That he is the

OWNER

of The

Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and county and state, and that the here to attached

Display Advertisement

was published in a regular and entire issue of the said

Artesia Daily Press, a daily newspaper duly qualified

for that purpose within the meaning of Chapter 467 of

the 1937 Session Laws of the state of New Mexico for

1 Consecutive

week/days

on the same day as follows:

First Publication

April 23, 2008

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Walter Green

Subscribed and sworn to before me this

24th Day

April

2008

Amanda R. Lamb

Notary Public, Eddy County, New Mexico

My Commission expires

April 5, 2011

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

Notice is hereby given that pursuant to New Mexico Water Quality Commission Regulations (20.6.2.3106 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505)476-3440:

(GW-114) - Schlumberger Technology Corporation, Darwin Thompson Facility Manager, PO Box 300 Artesia NM, 88211, has submitted a renewal application for the previously approved discharge permit (GW-114) their Artesia Facility, located in the S 1/2 of the SW 1/4 of Section Township 17S Range 26E, Eddy County, New Mexico, approximately miles northeast of Artesia, New Mexico. Approximately 500,000 gallons truck wash water, 180 gallons of parts cleaning solvent, 5500 gallons used oil, 3000 pounds of used oil filters and absorbent pads, 18 cubic feet of cement testing residue, and 360 cubic feet of wash bay sludge are generated on site annually, which are collected and temporarily stored in containment vessels prior to transport and disposal at an NMOCD approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 9 to 17 feet, with a total dissolved solids concentration of approximately 2700 to 7500 mg/L. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water. The discharge permit requires that groundwater contamination at the site will be remediated according to an NMOCD-approved plan.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notice. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that NMOCD hold a public hearing. 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 that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener mas informacion sobre esta solicitud en español, sírvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energia, Minerals y Recursos Naturales de Nuevo Mexico), Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New Mexico (Contacto: Dorothy Phillips, 505-476-3461)

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 6th day of March 2008.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

Mark Fesmire, Director

AVISO DE PUBLICACION ESTADO DE NUEVO MEXICO

DEPARTAMENTO DE ENERGIA, MINERALES Y RECURSOS NATURALES
DEPARTAMENTO CONSERVACION DEL PETROLEO

Aviso esta aqui dado que conforme a las reglas (20.6.2.3106 NMAC) de la Comisión de Control de la Calidad de la Agua de Nuevo Mexico, la(s) siguientes solicitudes de permiso de descargo ha(n) sido sometida(s) al Director del Departamento Conservación del Petróleo de Nuevo Mexico (NMOCD), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telefono (505)476-3440:

(GW-114)--Schlumberger Technology Corporation, Darwin Thompson, Facility Manager, PO Box 300, Artesia, NM 88211

Township 17S Range 26E, Condado Eddy, Nuevo Mexico, aproximadamente 2 millas al noroeste de Artesia, Nuevo Mexico. Aproximadamente 500,000 galones de agua usada para limpiar camiones, 180 galones partes de solvente limpiador, 5,500 galones de petroleo usado, 3000 libras de filtros de petroleo usados y almohodillas absorbantes, 18 pies cubicos de residuo de ensayo de cemento, y 360 pies cubicos del cieno del lugar para lavar camiones estan generados en lugar cada ano, que estan juntados y guardados temporalmente en vasijas antes de transporter y distribuir en una facilidad aprobada por la NMOCD. Agua basada en la tierra que esta mas vulnerable a un derramamiento, una gotera, o un descargo accidente esta a profundidad de los 9 a 17 pies; con una concentracion total de solidos disueltos de aproximadamente 2700 a 7500 mg/L. El permiso de descargo habla a como los productos petroleros y derroches estaran arreglados para proteger la agua fresca. El permiso de descargo requiere que la contaminacion de la agua basada en la tierra estara remediada segun un plan aprobado por la NMOCD.

La NMOCD ha determindado que la solicitud esta completa administrativamente y ha preparado un permiso borrador. La NMOCD aceptara comentarios y declaraciones de interes o tocante a esta solicitud y producira una lista especifica a esta facilidad por las personas que desean recibir aviso en el futuro. Las personas interesadas en obtener mas informacion, someter comentarios o pedir estar en una lista especifica a esta facilidad pueden ponerse en contacto a Environmental Bureau Chief of the Oil Conservation Division a la direccion dado arriba. La determinacion de terminacion administrativa y el permiso borrador pueden ser vistas en la direccion dado arriba entre las 8 de la manana y las 4 de la tarde, el lunes hasta el viernes o tambien pueden ser vistas en el lugar del internet de NMOCD <http://www.emnrd.state.nm.us/ocd/>. Las personas interesadas en obtener una copia de la solicitud y el permiso borrador pueden ponerse en contacto de la NMOCD en la direccion dado arriba. Antes de fallo en cualquier permiso de descargo proponido or modificacion mayor, el Director permitira un periodo de a lo menos treinta (30) dias despues de la fecha de publicacion de este aviso, durante que las personas interesadas pueden someter comentarios o pedir que la NMOCD da un procedimiento publico. Peticiones por un procedimiento publico deben ofrecer las razones por dar un procedimiento. Un procedimiento estara dado si el Director determina que hay suficiente interes publico. Si un procedimiento no esta dado, el Director aprobara o desaprobara el permiso proponido basado en la informacion disponible, incluyendo los comentarios recibidos. Si un procedimiento esta dado, el Director aprobara o desaprobara el permiso proponido basado en la informacion sometida en el procedimiento.

Para obtener mas informacion sobre esta solicitud en espanol, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energia, Minerales y Recursos Naturales de Nuevo Mexico), Oil Conservation Division (Depto. Conservacion Del Petroleo), 1220 South St. Francis Drive, Santa Fe, New Mexico (Contacto: Dorothy Phillips, 505-476-3461).

Dado debajo del sello de la Comision Conservacion del Petroleo de Nuevo Mexico en Santa Fe, New Mexico, en este sexto dia de Marzo de 2008.

ESTADO DE NUEVO MEXICO

DEPARTAMENTO CONSERVACION DEL PETROLEO

Mark Fesmire, Director



P.O. Box 190
Artesia, NM 88211
505-746-3524

RECEIVED
2008 MAR 31 PM 2 23

Statement

Date: 3/31/08
Activity: 3/1/2008 - 3/31/2008
Terms: Net 30

Bill to:

Fran Chavez
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, 87505

Sold to:

Account ID: 4212

Fran Chavez
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, 87505

Balance Forward before 3/1/2008

\$203.97

Date	Ad	Type	Description	Page	Sale	Adj	Pmt	Balance
03/09/08	14465	Sale	PO: 52100-0000007515 NOTICE		\$80.15			\$284.12
03/26/08		Credit Memo	adjustment; charged incorrectly			-\$203.97		\$80.15
					\$80.15	-\$203.97		

Thank you for advertising with Artesia Daily Press!

Unapplied Credit \$0.00

Paid Future Ads \$0.00

Account Balance as of 3/31/2008

\$80.15

Invoice Balances:

Current	30 Day	60 Day	90 Day	120 Day	Over 120	Total
\$80.15						\$80.15

O.K. to pay
Edward J. Hauer
3-31-08
GW-114

Please return this portion with your payment

Statement

Statement Date: 3/31/2008

Account # 4212

Amount Enclosed _____

Remit Payment to
Artesia Daily Press
P.O. Box 190
Artesia, NM 88211
505-746-3524

Account Balance as of 3/31/2008

\$80.15

Affidavit of Publication

NO.

20108

STATE OF NEW MEXICO

County of Eddy:

GARY D. SCOTT

being duly

sworn, says: That he is the

PUBLISHER

of The

Artesia Daily Press, a daily newspaper of general

circulation, published in English at Artesia, said county

and county and state, and that the here to attached

Legal Notice

was published in a regular and entire issue of the said

Artesia Daily Press, a daily newspaper duly qualified

for that purpose within the meaning of Chapter 167 of

the 1937 Session Laws of the state of New Mexico for

1 Consecutive week/days on the same

day as follows:

First Publication

March 9, 2008

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Subscribed and sworn to before me this

28th DayMarch2008Amanda K. Lamb
Notary Public, Eddy County, New Mexico

My Commission expires

April 5, 2011

Copy of Publication:

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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(GW-114) Schriber Technology Corporation, Darwin Thompson, Facility Manager, PO Box 300 Artesia NM, 88211, has submitted a renewal application for the previously approved discharge permit (GW-114) for their Artesia Facility, located in the S 1/2 of the SW 1/4 of Section 4 Township 17S Range 26E, Eddy County, New Mexico, approximately 2 miles northeast of Artesia, New Mexico. Approximately 500,000 gallons of truck wash water, 180 gallons of parts cleaning solvent, 5500 gallons of used oil, 3000 pounds of used oil filters and absorbent pads, 18 cubic feet of cement testing residue, and 360 cubic feet of wash bay sludge are generated on site annually, which are collected and temporarily stored in containment vessels prior to transport and disposal at an NMOCD approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 9 to 17 feet, with a total dissolved solids concentration of approximately 2700 to 7500 mg/L. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water. The discharge permit requires that groundwater contamination at the site will be remediated according to an NMOCD-approved plan. The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who

wish to receive future notice. Persons interested in obtaining further information, submit comments or requesting to be on a facility-specific mailing list for future notices may contact Environmental Bureau Chief, the Oil Conservation Division at the address given above for administrative completion, determination and draft permit may be viewed at the address between 8:00 a.m. and 4:00 p.m. Monday through Friday, or may also be viewed on the NMOCD web site at <http://www.emnrd.state.nm.us/d/>. Persons interested in obtaining a copy of the application or draft permit may contact NMOCD at the address given above. Prior to ruling on any proposed discharge permit or modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request a public hearing. NMOCD hold a public hearing. 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 that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener mas informacion sobre esta solicitud en español, sírvase comunicarse por fax al New Mexico Energy, Minerals & Natural Resources Department (Depto. Del Energia, Mineral & Recursos Naturales de New Mexico), Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South Francis Drive, Santa Fe, New Mexico (Contacto: Doris Phillips, 505-476-3461).

GIVEN under the Seal of the State of New Mexico, Oil Conservation Commission at Santa Fe, New Mexico, on this 6th day of March 2008.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
S E A L

Mark Fesmire, Director
Published in the Artesia Daily Press, Artesia, N.M. March 2008.

Legal 20108

THE SANTA FE
NEW MEXICAN
Founded 1849

NM EMNRD OIL CONSERV. DIV.
1220 S ST FRANCIS DR
SANTA FE NM 87505

Attn: Leonard Lowe

ALTERNATE ACCOUNT: 56689
AD NUMBER: 00248454 ACCOUNT: 00002212
LEGAL NO: 82471 P.O. #: 52100-7521
555 LINES 1 TIME(S) 483.28
AFFIDAVIT: 7.00
TAX: 38.92
TOTAL: 529.20

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, T. Valencia, 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 1937; that the publication # 82471 a copy of which is hereto attached was published in said newspaper 1 day(s) between 03/13/2008 and 03/13/2008 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 13rd day of March, 2008 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

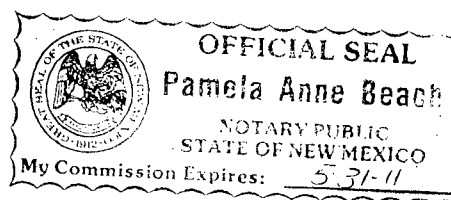
RECEIVED
MAR 13 2008
PM 1 29

/s/ T Valencia
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 13rd day of March, 2008

Notary Pamela Anne Beach

Commission Expires: May 31, 2011



**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 (20.6.2.3106 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505. Telephone (505) 476-3440:

(GW-294) Plains Marketing, L.P. Wayne E. Roberts, 432-686-1767, 3705 E. Hwy 158, Midland, Texas 79706, has submitted discharge permit renewal applications for the Townsend Remediation Site located in the SW/4 SW/4 of Section 11, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Groundwater most likely to be affected in the event of an accidental discharge is at a depth exceeding 50 feet with a total dissolved solids concentration of approximately 500-2000 mg/l. The Townsend site is a crude oil release site from previous operations. The discharge permit addresses how the impacted groundwater will be cleaned up, re-injected, and how recovered crude oil including contaminated groundwater and associated operations will be properly handled, stored, and disposed of, including how spills, leaks, and other acci-

dental discharges to the surface will be managed in order to protect fresh water.

Plains Marketing, L.P. Wayne E. Roberts, 432-686-1767, 3705 E. Hwy 158, Midland, Texas 79706, has submitted discharge permit renewal applications for the following Crude Oil Pump stations. The station(s) receives, store, and transfers crude oil from various leases in Eddy and Lea Counties, New Mexico. Crude oil products, waste oil and water may be stored in above ground tanks prior to being transported off-site to OCD approved facilities. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-289) Loco Hills Crude Oil Pump Station located in the NW/4 of Section 28, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. Groundwater most likely to be affected in the event of an accidental discharge is at a depth exceeding 400 feet with a total dissolved solids concentration of approximately 3000 mg/l.

(GW-351) Lea Crude Oil Pump Station located in the SW/4 NW/4 of Section 23, Township 17 South, Range 31 East, NMPM, Lea County, New Mexico. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of 30 feet with a total dissolved solids concentration of approximately 1600 mg/l.

(GW-114) Schlumberger Technology Corporation, Darwin Thompson, Facility Manager, PO Box 300 Artesia NM, 88211, has submitted a renewal application for the previously approved discharge permit (GW-114) for their Artesia Facility, located in the S of the SW of Section 4 Township 17S Range 26E, Eddy County, New Mexico, approximately 2 miles north-east of Artesia, New Mexico. Approximately 500,000 gallons of truck wash water, 180 gallons of parts cleaning solvent, 5500 gallons of used oil, 3000 pounds of used oil filters and absorbent pads, 18 cubic feet of cement testing residue, and 360 cubic feet of wash bay sludge are generated on site annually, which are collected and temporarily stored in containment vessels prior to transport and disposal at an NMOCD approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 9 to 17 feet, with a total dissolved solids concentration of approximately 2700 to 7500 mg/L. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water. The discharge permit requires that groundwater contamination at the site will be remediated according to an NMOCD-approved plan.

(GW-306) Williams Four Corners, Mr.

David Bays, Senior Environmental Specialist, 188 County Road 4900, Bloomfield, N.M. 87413, has submitted a renewal application for the previously approved discharge plan for their Trunk N Compressor Station, located in the NW/4 NE/4 of Section 17, Township 32 North, Range 7 West, NMPM, San Juan County, New Mexico, approximately 15 miles north-east of Archuleta, New Mexico. The station provides metering, compression, and dehydration services to various producers for the gathering of natural gas for treatment and delivery. Approximately 2000-8000 bbl/year of produced water/natural gas condensate; 100-5000 gal/year/unit of waste water and 500-2000 gal/year/engine of used engine oil are generated and stored in OCD approved containers on-site within a bermed area prior to disposal at an NMOCD approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 200-500 feet, with a total dissolved solids concentration of approximately 200 - 2000 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-092) El Paso Natural Gas Company's Richard Duarte, Senior Environmental Engineer, 3801 Atrisco Blvd. NW, Albuquerque, NM 87120 has submitted a re-

newal discharge plan application for their Rio Vista compressor station, located in the SE/4 SW/4 of Section 27, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. The facility is located south of Bloomfield, N.M., approximately 0.38 miles south of the San Juan River and 1 mile east of highway 550. The facility provides compression of pipeline quality natural gas via the San Juan cross-over pipeline. Approximately 8000 gallons of used lube oil, 1000 gallons of oil/waste water and 400 gallons of new oil will be stored onsite in above storage tanks (AST). These containers shall be placed upon cemented, bermed areas. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 30 feet, with a total dissolved solids concentration of approximately 1,200 - 4,775 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-231) El Paso Natural Gas Company's Richard Duarte, Senior Environmental Engineer, 3801 Atrisco Blvd. NW, Albuquerque, NM 87120 has submitted a renewal discharge plan application for their Lincoln "B" compressor station, located in the E/2 SE/4 of Section 22, Township 2 South, Range 12 East, NMPM, Lincoln County, New Mexico. The facility is located 1 mile east of US 54 on

county road A32. The facility provides compression of pipeline quality natural gas via the San Juan cross-over pipeline. Approximately 1700 gallons of lube oil and 1000 gallons of oil/waste will be stored in above storage tanks (AST). These containers shall be placed upon cemented, bermed areas. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 30 feet, with a total dissolved solids concentration of approximately 1,200 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-376) Champion Technologies, # 40 County Road 3145, Aztec, New Mexico 87410, has submitted a request for a new discharge plan permit for their Aztec oil and gas field service facility, located in the NW/4 NE/4 of Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, approximately half mile east of county road 3500, 2 miles southeast of the Animas River and 5.2 miles north of the San Juan river. Approximately 20,000 gallons of oil and 67,000 gallons of down-hole treatment chemicals will be stored onsite in tote drums and above ground storage tanks. These holding tanks shall be located on cemented bermed containment areas. Groundwater most likely to be affected by a spill, leak or acci-

dental discharge is at a depth of approximately 150 feet, with a total dissolved solids concentration of approximately 1,000 - 4,000 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this no-

tice, during which interested persons may submit comments or request that NMOCD hold a public hearing. 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 that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sírvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energía, Minerales y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New Mexico. (Contacto: Dorothy Phillips, 505-476-3461)

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 7th day of March, 2008.

STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION

SEAL

Mark Fesmire,
Director
Legal #82471
Pub. March 13, 2008

Hansen, Edward J., EMNRD

From: Lowe, Leonard, EMNRD
Sent: Friday, March 07, 2008 11:20 AM
To: Price, Wayne, EMNRD; Hansen, Edward J., EMNRD
Subject: FW: SFNM Public Notice: GW-294,289,351,114,92,231,306,376

- FYI -

From: Legals [mailto:legals@sfnewmexican.com]
Sent: Friday, March 07, 2008 11:14 AM
To: Lowe, Leonard, EMNRD
Subject: Re: SFNM Public Notice: GW-294,289,351,114,92,231,306,376

Hello Leonard,

The publication date is Thursday, March 13, 2008.

Thank you,

Betsy Perner for
Tracy Valencia
SF New Mexican Legal Adv
505.995.3818

On 3/7/08 11:04 AM, "Lowe, Leonard, EMNRD" <Leonard.Lowe@state.nm.us> wrote:

To Whom It May Concern:

Santa Fe New Mexican P.O. Number: **52100-0000007521**
SFNM – OCD Account Number: **56689**

Public Notices:

GW-294, Plains Marketing L.P. Townsend remediation site
GW-289, Plains Marketing L.P., Loco Hills Crude pump station
GW-351, Plains Marketing L.P., Lea Crude Pump Station
GW-114, Schlumberger Artesia Oil Service Co.
GW-92, El Paso Natural Gas Co. Rio Vista CS
GW-231, El Paso Natural Gas Co. Lincoln B CS
GW-306, Williams Four Corners Trunk N CS
GW-376, Champion Tech. Oil Service Co. Aztec

Please publish (one day only) the attached Public Notice(s) in the classified notice section of your newspaper.

The PO Number and Account Number for your newspaper are provided above.

Please mail me an affidavit of proof of publication for the public notice to my mailing address stated below.

Please address your invoice/affidavit to the state employee requesting ad placement in your paper. This will speed up the processing of invoice payment.

3/7/2008

Thank you for your attention and have a nice day.

llowe

Leonard Lowe

Environmental Engineer

Oil Conservation Division/EMNRD

1220 S. St. Francis Drive

Santa Fe, N.M. 87505

Office: 505-476-3492

Fax: 505-476-3462

E-mail: leonard.lowe@state.nm.us <<mailto:leonard.lowe@state.nm.us>>

Website: <http://www.emnrd.state.nm.us/ocd/> <<http://www.emnrd.state.nm.us/ocd/>>

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

This inbound email has been scanned by the MessageLabs Email Security System.

3/7/2008

Hansen, Edward J., EMNRD

From: Lowe, Leonard, EMNRD
Sent: Friday, March 07, 2008 11:04 AM
To: legals@sfnewmexican.com
Cc: Hansen, Edward J., EMNRD; Price, Wayne, EMNRD; Chavez, Fran, EMNRD
Subject: SFNM Public Notice: GW-294,289,351,114,92,231,306,376
Attachments: SFNM GW-294,289,351,114,306,231,92,376 OCD PN.DOC

To Whom It May Concern:

Santa Fe New Mexican P.O. Number: **52100-0000007521**
SFNM – OCD Account Number: **56689**

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GW-306, Williams Four Corners Trunk N CS
GW-376, Champion Tech. Oil Service Co. Aztec

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Please mail me an affidavit of proof of publication for the public notice to my mailing address stated below.

Please address your invoice/affidavit to the state employee requesting ad placement in your paper. This will speed up the processing of invoice payment.

Thank you for your attention and have a nice day.

llowe

Leonard Lowe

Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>

3/7/2008

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 (20.6.2.3106 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-294) Plains Marketing, L.P. Wayne E. Roberts, 432-686-1767, 3705 E. Hwy 158, Midland, Texas 79706, has submitted discharge permit renewal applications for the Townsend Remediation Site located in the SW/4 SW/4 of Section 11, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Ground water most likely to be affected in the event of an accidental discharge is at a depth exceeding 50 feet with a total dissolved solids concentration of approximately 500-2000 mg/l. The Townsend site is a crude oil release site from previous operations. The discharge permit addresses how the impacted groundwater will be cleaned up, re-injected, and how recovered crude oil including contaminated groundwater and associated operations will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

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(GW-289) Loco Hills Crude Oil Pump Station located in the NW/4 of Section 28, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. Ground water most likely to be affected in the event of an accidental discharge is at a depth exceeding 400 feet with a total dissolved solids concentration of approximately 3000 mg/l.

(GW-351) Lea Crude Oil Pump Station located in the SW/4 NW/4 of Section 23, Township 17 South, Range 31 East, NMPM, Lea County, New Mexico. Ground water most likely to be affected in the event of an accidental discharge is at a depth of 30 feet with a total dissolved solids concentration of approximately 1600 mg/l.

(GW-114) - Schlumberger Technology Corporation, Darwin Thompson, Facility Manager, PO Box 300 Artesia NM, 88211, has submitted a renewal application for the previously approved discharge permit (GW-114) for their Artesia Facility, located in the S ½ of the SW ¼ of Section 4 Township 17S Range 26E, Eddy County, New Mexico, approximately 2 miles northeast of Artesia, New Mexico. Approximately 500,000 gallons of truck wash water, 180 gallons of parts cleaning solvent, 5500 gallons of used oil, 3000 pounds of used oil filters and absorbent pads, 18 cubic feet of

cement testing residue, and 360 cubic feet of wash bay sludge are generated on site annually, which are collected and temporarily stored in containment vessels prior to transport and disposal at an NMOCD approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 9 to 17 feet, with a total dissolved solids concentration of approximately 2700 to 7500 mg/L. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water. The discharge permit requires that groundwater contamination at the site will be remediated according to an NMOCD-approved plan.

(GW-306) Williams Four Corners., Mr. David Bays, Senior Environmental Specialist, 188 County Road 4900, Bloomfield, N.M. 87413, has submitted a renewal application for the previously approved discharge plan for their Trunk N Compressor Station, located in the NW/4 NE/4 of Section 17, Township 32 North, Range 7 West, NMPM, San Juan County, New Mexico, approximately 15 miles northeast of Archuleta, New Mexico. The station provides metering, compression, and dehydration services to various producers for the gathering of natural gas for treatment and delivery. Approximately 2000-8000 bbl/year of produced water/natural gas condensate; 100-5000 gal/year/unit of waste water and 500-2000 gal/year/engine of used engine oil are generated and stored in OCD approved containers onsite within a bermed area prior to disposal at an NMOCD approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 200-500 feet, with a total dissolved solids concentration of approximately 200 - 2000 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-092) El Paso Natural Gas Company's Richard Duarte, Senior Environmental Engineer, 3801 Atrisco Blvd. NW, Albuquerque, NM 87120 has submitted a renewal discharge plan application for their Rio Vista compressor station, located in the SE/4 SW/4 of Section 27, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. The facility is located south of Bloomfield, N.M., approximately 0.38 miles south of the San Juan River and ½ mile east of highway 550. The facility provides compression of pipeline quality natural gas via the San Juan cross-over pipeline. Approximately 8000 gallons of used lube oil, 1000 gallons of oil/waste water and 400 gallons of new oil will be stored onsite in above storage tanks (AST). These containers shall be placed upon cemented, bermed areas. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 30 feet, with a total dissolved solids concentration of approximately 1,200 – 4,775 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-231) El Paso Natural Gas Company's Richard Duarte, Senior Environmental Engineer, 3801 Atrisco Blvd. NW, Albuquerque, NM 87120 has submitted a renewal discharge plan application for their Lincoln "B" compressor station, located in the E/2 SE/4 of Section 22, Township 2 South, Range 12 East, NMPM, Lincoln County, New Mexico. The facility is located 1 mile east of US 54 on county road A32. The facility provides compression of pipeline quality natural gas via the San Juan cross-over pipeline. Approximately 1700 gallons of lube oil and 1000 gallons of oil/waste will be stored in above storage tanks (AST). These containers shall be placed upon cemented, bermed areas. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 30 feet, with a total dissolved solids concentration of approximately 1,200 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be

managed in order to protect fresh water.

(GW-376) Champion Technologies, # 40 County Road 3145, Aztec, New Mexico 87410, has submitted a request for a new discharge plan permit for their Aztec oil and gas field service facility, located in the NW/4 NE/4 of Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, approximately half mile east of county road 3500, 2 miles southeast of the Animas River and 5.2 miles north of the San Juan river. Approximately 20,000 gallons of oil and 67,000 gallons of down-hole treatment chemicals will be stored onsite in tote drums and above ground storage tanks. These holding tanks shall be located on cemented bermed containment areas. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 150 feet, with a total dissolved solids concentration of approximately 1,000 – 4,000 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that NMOCD hold a public hearing. 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 that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energia, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservacio´n Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Dorothy Phillips, 505-476-3461)

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 7th day of March, 2008.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

Mark Fesmire, Director

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD

Sent: Thursday, March 06, 2008 3:34 PM

To: Thompson, Bruce C., DGF; Warren, Alvin, DIA; 'ddapr@nmda.nmsu.edu';
'Linda_Rundell@nm.blm.gov'; 'sthompson@ago.state.nm.us'; 'r@rthicksconsult.com';
'sricdon@earthlink.net'; 'nmparks@state.nm.us'; Dantonio, John, OSE; 'sreid@nmoga.org';
Martinez, Elysia, NMENV; 'lazarus@glorietageo.com'; Stone, Marissa, NMENV;
'ron.dutton@xcelenergy.com'; 'cgarcia@fs.fed.us'; 'jbarnett@barnettwater.com'; Kieling, John,
NMENV; 'bsg@garbhall.com'; Olson, Bill, NMENV; 'claudette.horn@pnm.com';
'ekendrick@montand.com'; 'ken@carihobbs.com'; 'staff@ipanm.org'; Williams, Chris, EMNRD;
Johnson, Larry, EMNRD; Gum, Tim, EMNRD; Bratcher, Mike, EMNRD; Perrin, Charlie,
EMNRD; Powell, Brandon, EMNRD; Martin, Ed, EMNRD

Subject: GW114 Discharge Permit Renewal Public Notice

Attachments: GW114 Public Notice 3-6-08.pdf

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Friday, March 07, 2008 2:33 PM
To: 'Darwin Thompson'
Cc: 'rdeuell@qwest.net'; 'Judy Carley'
Subject: RE: Discharge Permit (GW114) Renewal Application Administratively Complete
Attachments: GW-114 AdminCompLetter 3-6-08.pdf

Dear Mr. Thompson:
Please disregard the Administratively Complete Letter that I sent to you yesterday.
Attached is a corrected version.
Thanks.

From: Hansen, Edward J., EMNRD
Sent: Thursday, March 06, 2008 1:20 PM
To: 'Darwin Thompson'
Cc: rdeuell@qwest.net; Judy Carley
Subject: Discharge Permit (GW114) Renewal Application Administratively Complete

Dear Mr. Thompson:

The submitted discharge permit application for the Schlumberger Oil Field Services - Artesia Facility has been determined to be **administratively complete**.

I have attached the **Administratively Complete Letter**, **Draft Permit**, and **OCD Public Notice** for your records.

Please see the Administratively Complete Letter for instructions for the public notice you are required to give.

Also, please note item #20 of the Draft Permit. You will have approximately 45 days (5 days for OCD to have its notice published plus 30 days for public comment plus 10 days once the final permit is issued) to submit a plan for plume containment.

Let me know if you have any questions regarding this matter.

Edward J. Hansen
Hydrologist
Environmental Bureau
505-476-3489

3/7/2008

NEW MEXICO
NATURAL RESOURCES AND
ENVIRONMENTAL RESOURCES DEPARTMENT
SAINT FRANCIS DRIVE
NEW MEXICO 87505

Mailed
RECEIVED
MAR - 6 2008
Environmental Bureau
Oil Conservation Division

Field Supervisor
US Fish & Wildlife Service
2105 Osuna Road, Northeast
Albuquerque, NM 87113-1001



GW 114
Public Notice

NEW MEXICO
NATURAL RESOURCES AND
ENVIRONMENTAL RESOURCES DEPARTMENT
SAINT FRANCIS DRIVE
NEW MEXICO 87505

Dr. Harry Bishara
P.O. Box 748
Cuba, NM 87013

NEW MEXICO
NATURAL RESOURCES AND
ENVIRONMENTAL RESOURCES DEPARTMENT
SAINT FRANCIS DRIVE
NEW MEXICO 87505

State Historic Preservation Officer
228 East Palace Avenue
Villa Rivera Room 101
Santa Fe, NM 87503

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Thursday, March 06, 2008 3:17 PM
To: 'legals@artesianews.com'
Cc: Lowe, Leonard, EMNRD
Subject: GW114 Discharge Permit Public Notice
Attachments: GW114 Public Notice 3-6-08.DOC

Dear Sir or Madam:

Please publish the attached notice(s) once in the classified-legal notice section of the newspaper. The Oil Conservation Division (OCD) PO # is **52100-0000007515** and Account # 4212 (account # included for your use only). Please mail an affidavit of proof of publication for the notice. Please contact me if you have questions. Thank you.

The Oil Conservation Division appreciates the ad placement services that you provide to our agency. In order to streamline the review and approval process for newspaper ad invoices, the OCD requests that you send the original invoice with an original affidavit of proof of posting directly to the OCD requestor (contact info. usually at the bottom of e-mails or letters). This will help the proper OCD staff person responsible for the ad placement to promptly receive invoices from newspaper companies and quickly approve invoices for payment.

The OCD appreciates your cooperation and we look forward to working with you in the future. Please contact me if you have questions or need further assistance in this matter.

Edward J. Hansen
Oil Conservation Division
EMNRD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87505

505-476-3489

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Thursday, March 06, 2008 1:20 PM
To: 'Darwin Thompson'
Cc: rdeuell@qwest.net; Judy Carley
Subject: Discharge Permit (GW114) Renewal Application Administratively Complete
Attachments: GW114 Draft Discharge Permit 3-6-08.pdf; GW114 Public Notice 3-6-08.pdf; GW114_AdminCompLetter3-6-08.pdf

Dear Mr. Thompson:

The submitted discharge permit application for the Schlumberger Oil Field Services - Artesia Facility has been determined to be **administratively complete**.

I have attached the **Administratively Complete Letter**, **Draft Permit**, and **OCD Public Notice** for your records.

Please see the Administratively Complete Letter for instructions for the public notice you are required to give.

Also, please note item #20 of the Draft Permit. You will have approximately 45 days (5 days for OCD to have its notice published plus 30 days for public comment plus 10 days once the final permit is issued) to submit a plan for plume containment.

Let me know if you have any questions regarding this matter.

Edward J. Hansen
Hydrologist
Environmental Bureau
505-476-3489

3/6/2008

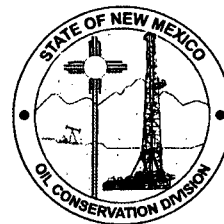


New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



March 6, 2008

Darwin Thompson
Schlumberger Oil Field Services
507 East Richey Ave.
Artesia, New Mexico 88210

**RE: Discharge Permit (GW-114) Renewal
Schlumberger Oil Field Services – Artesia Facility
Eddy County, New Mexico
Determination of Administratively Complete**

Dear Mr. Thompson:

The New Mexico Oil Conservation Division (OCD) has received the Schlumberger Oil Field Services application, dated November 27, 2007, to renew the discharge permit, GW-114, for the Schlumberger Oil Field Services – Artesia Facility located in the S/2 of the SW/4 of Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico. The application and filing fee were received on November 27, 2007. The application and a follow-up correspondence, which proposed the newspaper to publish the public notice, provided the required information in order to deem the application “administratively” complete.

Now that the submittal is deemed “administratively” complete, the New Mexico Water Quality Control Commission regulations (WQCC) public notice requirements of 20.6.2.3108 NMAC must be satisfied and demonstrated to the OCD. The OCD hereby approves your submitted draft version of the public notice for translation into Spanish and publication in the specified newspaper in both English and Spanish.

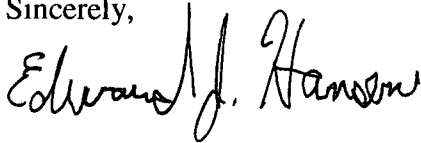


The public notice must be given no later than April 5, 2008. Once the notice has been given, then please submit to the OCD within 15 days of public notice:

- 1) proof that the notice was published in the newspaper in both English and Spanish (affidavit of publication from the newspaper) and
- 2) proof that the notice was sent via certified mail to each landowner [signed certified mail receipt (green card) by each landowner – *this is not required if you are the landowner*].

If you have any questions regarding this matter, please do not hesitate to contact me at (505) 476-3489 or edwardj.hansen@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit renewal review.

Sincerely,

A handwritten signature in black ink that reads "Edward J. Hansen". The signature is written in a cursive, flowing style.

Edward J. Hansen
Hydrologist
Environmental Bureau

EJH:ejh

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 (20.6.2.3106 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-114) - Schlumberger Technology Corporation, Darwin Thompson, Facility Manager, PO Box 300 Artesia NM, 88211, has submitted a renewal application for the previously approved discharge permit (GW-114) for their Artesia Facility, located in the S ½ of the SW ¼ of Section 4 Township 17S Range 26E, Eddy County, New Mexico, approximately 2 miles northeast of Artesia, New Mexico. Approximately 500,000 gallons of truck wash water, 180 gallons of parts cleaning solvent, 5500 gallons of used oil, 3000 pounds of used oil filters and absorbent pads, 18 cubic feet of cement testing residue, and 360 cubic feet of wash bay sludge are generated on site annually, which are collected and temporarily stored in containment vessels prior to transport and disposal at an NMOCD approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 9 to 17 feet, with a total dissolved solids concentration of approximately 2700 to 7500 mg/L. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water. The discharge permit requires that groundwater contamination at the site will be remediated according to an NMOCD-approved plan.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that NMOCD hold a public hearing. 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 that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energia, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservacio'n Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Dorothy Phillips, 505-476-3461)

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 6th day of March 2008.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

Mark Fesmire, Director



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



April 8, 2008

Darwin Thompson
Schlumberger Oil Field Services
507 East Richey Ave.
Artesia, New Mexico 88210

Re: **DRAFT** Discharge Permit Renewal (GW-114)
Schlumberger Oil Field Services – Artesia Facility
S/2 SW/4 Section 4, Township 17 South, Range 26 East, NMPM,
Eddy County, New Mexico,

Dear Mr. Thompson:

Pursuant to Water Quality Control Commission (WQCC) Regulations 20.6.2.3104 - 20.6.2.3114 NMAC, the Oil Conservation Division (OCD) hereby approves the discharge permit for the **Schlumberger Oil Field Services** (owner/operator) for the above referenced site contingent upon the conditions specified in the enclosed **Attachment to the Discharge Permit**. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter including permit fees.**

Please be advised that approval of this permit does not relieve the owner/operator of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does approval of the permit relieve the owner/operator of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If you have any questions, please contact Edward J. Hansen of my staff at (505-476-3489) or E-mail edwardj.hansen@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Wayne Price
Environmental Bureau Chief

LWP/ejh
Attachments-1
xc: OCD District Office



ATTACHMENT- DISCHARGE PERMIT APPROVAL CONDITIONS

- 1. Payment of Discharge Plan Fees:** All discharge permits are subject to WQCC Regulations. Every billable facility that submits a discharge permit application will be assessed a filing fee of \$100.00, plus a flat fee (*see* WQCC Regulation 20.6.2.3114 NMAC). The Oil Conservation Division ("OCD") has received the required \$100.00 filing fee. ***The flat fee for an oil and gas service company is \$1,700.00. Please submit this amount along with the signed certification item 23 of this document after the final permit is issued in approximately 45 days. Checks should be made out to the New Mexico Water Quality Management Fund.***
- 2. Permit Expiration, Renewal Conditions and Penalties:** Pursuant to WQCC Regulation 20.6.2.3109.H.4 NMAC, this permit is valid for a period of five years. **The permit will expire on December 2, 2012** and an application for renewal should be submitted no later than 120 days before that expiration date. Pursuant to WQCC Regulation 20.6.2.3106.F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. ***Expired permits are a violation of the Water Quality Act {Chapter 74, Article 6, NMSA 1978} and civil penalties may be assessed accordingly.***
- 3. Permit Terms and Conditions:** Pursuant to WQCC Regulation 20.6.2.3104 NMAC, when a permit has been issued, the owner/operator must ensure that all discharges shall be consistent with the terms and conditions of the permit. In addition, all facilities shall abide by the applicable rules and regulations administered by the OCD pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-1 through 70-2-38.
- 4. Owner/Operator Commitments:** The owner/operator shall abide by all commitments submitted in its November 27, 2007, discharge plan application, including attachments and subsequent amendments and these conditions for approval. Permit applications that reference previously approved plans on file with the division shall be incorporated in this permit and the owner/operator shall abide by all previous commitments of such plans and these conditions for approval.
- 5. Modifications:** WQCC Regulation 20.6.2.3107.C and 20.6.2.3109 NMAC addresses possible future modifications of a permit. The owner/operator (discharger) shall notify the OCD of any facility expansion, production increase or process modification that would result in any significant modification in the discharge of water contaminants. The Division Director may require a permit modification if any water quality standard specified at 20.6.2.3103 NMAC is being or will be exceeded, or if a toxic pollutant as defined in WQCC Regulation 20.6.2.7 NMAC is present in ground water at any place of withdrawal for present or reasonably foreseeable future use, or that the Water Quality Standards for Interstate and Intrastate streams as specified in 20.6.4 NMAC are being or may be violated in surface water in New Mexico.
- 6. Waste Disposal and Storage:** The owner/operator shall dispose of all wastes at an OCD-approved facility. Only oil field RCRA-exempt wastes may be disposed of by injection in a Class II well. RCRA non-hazardous, non-exempt oil field wastes may be disposed of at an OCD-

approved facility upon proper waste determination pursuant to 40 CFR Part 261. Any waste stream that is not listed in the discharge permit application must be approved by the OCD on a case-by-case basis.

A. OCD Rule 712 Waste: Pursuant to OCD Rule 712 (19.15.9.712 NMAC) disposal of certain non-domestic waste without notification to the OCD is allowed at NMED permitted solid waste facilities if the waste stream has been identified in the discharge permit and existing process knowledge of the waste stream does not change.

B. Waste Storage: The owner/operator shall store all waste in an impermeable bermed area, except waste generated during emergency response operations for up to 72 hours. All waste storage areas shall be identified in the discharge permit application. Any waste storage area not identified in the permit shall be approved on a case-by-case basis only. The owner/operator shall not store oil field waste on-site for more than 180 days unless approved by the OCD.

7. Drum Storage: The owner/operator must store all drums, including empty drums, containing materials other than fresh water on an impermeable pad with curbing. The owner/operator must store empty drums on their sides with the bungs in place and lined up on a horizontal plane. The owner/operator must store chemicals in other containers, such as tote tanks, sacks, or buckets on an impermeable pad with curbing.

8. Process, Maintenance and Yard Areas: The owner/operator shall either pave and curb or have some type of spill collection device incorporated into the design at all process, maintenance, and yard areas which show evidence that water contaminants from releases, leaks and spills have reached the ground surface.

9. Above Ground Tanks: The owner/operator shall ensure that all aboveground tanks have impermeable secondary containment (e.g., liners and berms), which will contain a volume of at least one-third greater than the total volume of the largest tank or all interconnected tanks. The owner/operator shall retrofit all existing tanks before discharge permit renewal. Tanks that contain fresh water or fluids that are gases at atmospheric temperature and pressure are exempt from this condition.

10. Labeling: The owner/operator shall clearly label all tanks, drums, and containers to identify their contents and other emergency notification information. The owner/operator may use a tank code numbering system, which is incorporated into their emergency response plans.

11. Below-Grade Tanks/Sumps and Pits/Ponds.

A. All below-grade tanks and sumps must be approved by the OCD prior to installation and must incorporate secondary containment with leak detection into the design. The owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal. All existing below-grade tanks and sumps without secondary containment and leak detection must be tested annually or as specified herein. Systems that have secondary containment with leak detection shall have a monthly inspection of the leak detection system to determine if the primary containment is leaking. Small sumps or

depressions in secondary containment systems used to facilitate fluid removal are exempt from these requirements if fluids are removed within 72 hours.

B. All pits and ponds, including modifications and retrofits, shall be designed by a certified registered professional engineer and approved by the OCD prior to installation. In general, all pits or ponds shall have approved hydrologic and geologic reports, location, foundation, liners, and secondary containment with leak detection, monitoring and closure plans. All pits or ponds shall be designed, constructed and operated so as to contain liquids and solids in a manner that will protect fresh water, public health, safety and the environment for the foreseeable future. The owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal.

C. The owner/operator shall ensure that all exposed pits, including lined pits and open top tanks (8 feet in diameter or larger) shall be fenced, screened, netted, or otherwise rendered non-hazardous to wildlife, including migratory birds.

D. The owner/operator shall maintain the results of tests and inspections at the facility covered by this discharge permit and available for OCD inspection. The owner/operator shall report the discovery of any system which is found to be leaking or has lost integrity to the OCD within 15 days. The owner/operator may propose various methods for testing such as pressure testing to 3 pounds per square inch greater than normal operating pressure and/or visual inspection of cleaned tanks and/or sumps, or other OCD-approved methods. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

12. Underground Process/Wastewater Lines:

A. The owner/operator shall test all underground process/wastewater pipelines at least once every five (5) years to demonstrate their mechanical integrity, except lines containing fresh water or fluids that are gases at atmospheric temperature and pressure. Pressure rated pipe shall be tested by pressuring up to one and one-half times the normal operating pressure, if possible, or for atmospheric drain systems, to 3 pounds per square inch greater than normal operating pressure, and pressure held for a minimum of 30 minutes with no more than a 1% loss/gain in pressure. The owner/operator may use other methods for testing if approved by the OCD.

B. The owner/operator shall maintain underground process and wastewater pipeline schematic diagrams or plans showing all drains, vents, risers, valves, underground piping, pipe type, rating, size, and approximate location. All new underground piping must be approved by the OCD prior to installation. The owner/operator shall report any leaks or loss of integrity to the OCD within 15 days of discovery. The owner/operator shall maintain the results of all tests at the facility covered by this discharge permit and they shall be available for OCD inspection. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

13. Class V Wells: The owner/operator shall close all Class V wells (e.g., septic systems, leach fields, dry wells, etc.) that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes unless it can be demonstrated that ground water will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD-regulated facilities that inject non-hazardous fluid into or above an underground source of drinking

water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only, must be permitted by the New Mexico Environment Department (NMED).

14. Housekeeping: The owner/operator shall inspect all systems designed for spill collection/prevention and leak detection at least monthly to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices shall be emptied of fluids within 72 hours of discovery. The owner/operator shall maintain all records at the facility and available for OCD inspection.

15. Spill Reporting: The owner/operator shall report all unauthorized discharges, spills, leaks and releases and conduct corrective action pursuant to WQCC Regulation 20.5.12.1203 NMAC and OCD Rule 116 (19.15.3.116 NMAC). The owner/operator shall notify both the OCD District Office and the Santa Fe Office within 24 hours and file a written report within 15 days.

16. OCD Inspections: The OCD may place additional requirements on the facility and modify the permit conditions based on OCD inspections.

17. Storm Water: The owner/operator shall implement and maintain run-on and runoff plans and controls. The owner/operator shall not discharge any water contaminant that exceeds the WQCC standards specified in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) including any oil sheen in any stormwater run-off. The owner/operator shall notify the OCD within 24 hours of discovery of any releases and shall take immediate corrective action(s) to stop the discharge.

18. Unauthorized Discharges: The owner/operator shall not allow or cause water pollution, discharge or release of any water contaminant that exceeds the WQCC standards listed in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) unless specifically listed in the permit application and approved herein. **An unauthorized discharge is a violation of this permit.**

19. Vadose Zone and Water Pollution: The owner/operator shall address any contamination through the discharge permit process or pursuant to WQCC 20.6.2.4000-.4116 NMAC (Prevention and Abatement of Water Pollution). The OCD may require the owner/operator to modify its permit for investigation, remediation, abatement, and monitoring requirements for any vadose zone or water pollution. Failure to perform any required investigation, remediation, abatement and submit subsequent reports will be a violation of the permit.

20. Additional Site Specific Conditions: The owner/operator shall submit a plan for active groundwater contamination plume containment at the site to the OCD within 10 days of this discharge permit date for OCD review and approval. The plan must include proposed groundwater recovery well(s) location(s), and proposed method(s) of recovered groundwater treatment and / or disposal. Also, the plan must include a schedule for implementing the plume containment. The owner/operator shall remediate the groundwater contamination at the site in accordance with an OCD-approved plan.

21. Transfer of Discharge Permit (WQCC 20.6.2.3111) Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of a facility with a discharge permit, the transferor shall notify the transferee in writing of the existence of the discharge permit, and shall deliver or send by certified mail to the department a copy of such written notification, together with a certification or other proof that such notification has in fact been received by the transferee.

Upon receipt of such notification, the transferee shall have the duty to inquire into all of the provisions and requirements contained in such discharge permit, and the transferee shall be charged with notice of all such provisions and requirements as they appear of record in the department's file or files concerning such discharge permit. The transferee (new owner/operator) shall sign and return an original copy of these permit conditions and provide a written commitment to comply with the terms and conditions of the previously approved discharge permit.

22. Closure Plan and Financial Assurance: Pursuant to 20.6.2.3107 NMAC an owner/operator shall notify the OCD when any operations of the facility are to be discontinued for a period in excess of six months. Prior to closure, or as a condition of this permit, or request from the OCD, the operator will submit an approved closure plan, modified plan, and/or provide adequate financial assurance.

23. Certification: (Owner/Operator), by the officer whose signature appears below, accepts this permit and agrees to comply with all submitted commitments, including these terms and conditions contained here. **Owner/Operator** further acknowledges that the OCD may, for good cause shown, as necessary to protect fresh water, public health, safety, and the environment, change the conditions and requirements of this permit administratively.

Conditions accepted by: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment."

Company Name-print name above

Company Representative- print name

Company Representative- Signature

Title _____

Date: _____

Hansen, Edward J., EMNRD

From: Darwin Thompson [thompson3@hobbs.oilfield.slb.com]
Sent: Tuesday, February 12, 2008 3:03 PM
To: Hansen, Edward J., EMNRD
Cc: rdeuell@qwest.net; Judy Carley
Subject: Fwd: GW-114 (Artesia facility) Permit Renewal
Attachments: Public Notice Example for DP Renewal.doc; ATT2968032.txt

Edward,

I have attached the completed copy of the Public Notice for the renewal application for GW-114 for Schlumberger's Artesia Facility. I included the depth to, and the TDS concentration of the ground water. The TDS was calculated using the totals of the major cations and anions listed in the ground water analysis enclosed in the application. It will be necessary to take samples to perform a TDS analysis on the ground water if needed. We propose to list the Public Notice in the Artesia Daily Press.

If you have any other questions or concerns, please let me know.

Date: Wed, 06 Feb 2008 10:08:27 -0700
 From: "Hansen, Edward J., EMNRD" <edwardj.hansen@state.nm.us>
 Subject: GW-114 (Artesia facility) Permit Renewal
 To: thompson3@hobbs.oilfield.slb.com
 Message-id:
 <D0C91A5E9D076B4F9D2407A9E504FC46053A654D@CEXMB3.nmes.lcl>
 Content-type: multipart/mixed; boundary="----=_NextPart_001_01C868E2.B61B1D5F"
 Content-class: urn:content-classes:message
 Thread-topic: GW-114 (Artesia facility) Permit Renewal
 Thread-index: Acho4uQl2Tm5QDvUTh+XNP7JIGa5pQ==
 Original-recipient: rfc822;thompson3@hobbs.oilfield.slb.com

Darwin,

I am taking over the review (from Carl Chaves) of your application for the renewal of discharge permit (GW-114).

I need a couple of items before I can deem the application complete:

- 1) Attached is an example public notice. Please fill in the high-lighted portions as they pertain to your facility and return it to me for approval (prior to publication – I'll give you further publication details once the notice has been approved). The notice must include the depth to groundwater and the TDS concentration of the groundwater. The OCD notice of 2002 stated 1500 mg/L TDS; however, the data presented in the application suggests that the TDS concentration may be over 2000 mg/L.
- 2) Also, please submit the name of the newspaper that you propose to publish the public notice.

Please submit the above information to me within 10 days.

Thank you for your cooperation in this matter. Please let me know if you have any questions regarding this matter.

Edward J. Hansen
Hydrologist
Environmental Bureau
505-476-3489

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

This inbound email has been scanned by the MessageLabs Email Security System.

PUBLIC NOTICE

Schlumberger Technology Corporation, Darwin Thompson, Facility Manager, PO Box 300 Artesia NM, 88211, has submitted a renewal application for the previously approved discharge plan (GW-114) for their Artesia facility, located in the S $\frac{1}{2}$ of the SW $\frac{1}{4}$ of Section 4 Township 17S Range 26E, Eddy County, New Mexico, approximately 2 miles northeast of Artesia, New Mexico. Approximately 500,000 gallons of truck wash water, 180 gallons of parts cleaning solvent, 5500 gallons of used oil, 3000 pounds of used oil filters and absorbent pads, 18 cubic feet of cement testing residue, and 360 cubic feet of wash bay sludge are generated on site annually, which are collected and temporarily stored in containment vessels prior to transport and disposal at an NMOCD approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 9 to 17 feet, with a total dissolved solids concentration of approximately 2700 to 7500 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water. Any interested person may obtain information, submit comments or request to be placed on a facility specific mailing list for future notices by contacting Edward J. Hansen at the New Mexico OCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3489. The OCD will accept comments and statements of interest regarding the renewal and will create a facility-specific mailing list for persons who wish to receive future notices.

EXAMPLE

{This public notice is proposed to be published in the Artesia Daily Press.}

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 9/2/07

or cash received on in the amount of \$ 100⁰⁰

from Schlumberger Technology Corp.

for GW-114

Submitted by: Lawrence Romero Date: 11/29/07

Submitted to ASD by: Lawrence Romero Date: 11/29/07

Received in ASD by: Date:

Filing Fee ✓ New Facility Renewal ✓

Modification Other

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment

November 21, 2007

Mr. Carl J. Chavez
State Of New Mexico
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, Nm 87505

*Recd. 11/27/07
and Chavez*

Dear Mr. Chavez,

Enclosed is our renewal application for Ground Water Discharge Permit GW114 for the Schlumberger Technology Corporation's Artesia Facility. The required check for the application fee in the amount of \$100.00 is attached.

One copy of this permit renewal application has been forwarded to the NMOCD Artesia District office.

If you have any questions regarding this application, please feel free to contact me at 505 748 1392.

Sincerely,

Darwin Thompson

Darwin Thompson

Facility/Environmental Manager

Enclosures: 10

November 21, 2007

Mr. Carl J. Chavez
State Of New Mexico
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, Nm 87505

*Recd. 11/27/07
in ching*

Dear Mr. Chavez,

Enclosed is our renewal application for Ground Water Discharge Permit GW114 for the Schlumberger Technology Corporation's Artesia Facility. The required check for the application fee in the amount of \$100.00 is attached.

One copy of this permit renewal application has been forwarded to the NMOCD Artesia District office.

If you have any questions regarding this application, please feel free to contact me at 505 748 1392.

Sincerely,

Darwin Thompson

Darwin Thompson

Facility/Environmental Manager

Enclosures: 10

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

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

Revised June 10, 2003

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

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

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

☐ New ☒ Renewal ☐ Modification

1. Type: _____ Oilfield Pumping Service _____
2. Operator: _____ Schlumberger Technology Corp. GW-114 Artesia Facility
Address: _____ 507 East Richey Ave. Artesia NM 88210 _____
Contact Person: _____ Darwin Thompson _____ Phone: _____ 575 748 1392 _____
3. Location: _____ South _____ 1/2 _____ SW _____ 1/4 _____ Section _____ 4 _____ Township _____ 17S _____ Range _____ 26E _____
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: 11-27-07

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

**DISCHARGE PLAN GW-114
FOR SCHLUMBERGER WELL SERVICES
507 EAST RICHEY
ARTESIA, NEW MEXICO
RENEWAL APPLICATION
11/13/07**

4. Landowner: Schlumberger Technology Corporation
507 East Richey Ave.
PO Box 300
Artesia, New Mexico 88210
505 748 1392
Contact Person: Darwin Thompson,
Facility/Environmental Manager
5. Maps for the facility are included as Attachment 1.
6. A list of all materials stored or used at the facility:
No drilling fluids (A) or Brines (B) are stored or used at this facility. All other classes of chemicals (C thorough H) are listed in Attachment 2.
7. The sources of effluent and waste solids from this facility include:
- A. Quantities and components of each waste stream:
1. No wastes are created from tank trucks. No brines or drilling fluids are hauled in tankers.
 2. No tankers or tanks are rinsed at this facility.
 3. Truck wash bay wastewater average daily volume is 1400 gallons.
 4. Parts solvent is used during the cleaning of excess grease and oil from truck and equipment parts during the repair process. Average daily volume is 0.5 gallons. Product is returned to vendor for recycling.
 5. No spent acid, caustics, or completion fluids are generated at this facility.
 6. No waste or slop oil is generated at this facility.
 7. Used engine oil and other vehicle maintenance fluids are collected for off-site recycling in the truck maintenance shop. Average daily volume is 15 gallons.
 8. Used oil filters from the truck maintenance shop are collected for off-site recycling. Average daily volume is 8 pounds. Absorbent pads used to clean minor drips and spills of lubricant in the shop are included in this waste stream.
 9. There are no solids or sludges generated from tanks at this facility.
 10. There is no painting waste generated from this facility, since no large scale painting is done on-site.
 11. Domestic sewage waste is generated at this facility. Rinse water from the cement testing area is included in this waste stream.
 12. Cement residue is generated from the cleaning of cups and other equipment used in the testing of cement samples in the cement testing area. Average monthly volume is 1.5 cubic feet

13. On very rare occasions, various chemicals or mixtures of chemicals may be generated on site, which are disposed of as a waste material. These chemicals are not useable, as they do not meet specifications or are blended incorrectly. These chemicals vary in content and may be either hazardous or non-hazardous. If they are determined to be hazardous it is usually because of either Ph or flash point. All off spec materials are disposed of off-site in accordance with State and EPA regulations. Waste Stream Characterization is done using MSDS information.
14. Sludge from truck wash bay consists of mud and soil that is removed from trucks and equipment during the washing process. Average monthly volume is 30 cubic feet.

B. Quality Characteristics:

1. 2. 3. Copies of analytical results for waste streams 3, 4, 11, 12, and 14 are included as Attachment 3. Waste streams 7 and 8 are recycled and are sampled by the vendor. Waste stream 13 varies with each shipment and is composed of materials that are described by an MSDS and therefore do not require analysis.
4. The potential for waste streams to contain toxic pollutants are as follows:
 1. Truck wastes-N/A.
 2. Truck and tank washing-N/A
 3. Steam cleaning of parts or equipment- none- see analytical results, att. 3
 4. Solvent/degreaser-none-see analytical results, att. 3
 5. Spent acid or caustics-N/A
 6. Waste slop oil-N/A
 7. Used lubricants and motor oil-none-analyzed by recycler
 8. Used oil filters-none-analyzed by recycler
 9. Solids and Sludges from tanks-N/A
 10. Painting wastes-N/A
 11. Sewage-none-see analytical results att. 3
 12. Laboratory wastes-none-see analytical results, att. 3
 13. Other waste liquids-toxic pollutants may be present, depending on specific contents of material. Presence will be verified by MSDS of chemicals included in the waste. Any material determined to be hazardous will be disposed of in accordance with State and Federal regulations.
 14. Other waste solids-none- see analytical results, att. 3
5. Sampling procedures are conducted in accordance with normal industry standards. The sample collection and preservation techniques are outlined on the Sampling Documentation Form included in Attachment 4 which is completed for each sample taken.
6. Significant variations are not likely or anticipated for any of the existing waste streams due to procedural guidelines and Schlumberger Corporate

Environmental Policies. Any minor variations in waste stream content will be detected by process supervision and periodic scheduled waste analysis.

C. No oilfield exempt waste streams exist at this facility; therefore no commingled waste streams are created.

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

A. Summary Information:

1. Truck Wastes-N/A
2. Truck tank and drum washing-N/A
3. Steam cleaning parts and equipment- water is treated through a sediment trap and then an oil/water separator and then sent to POWT facility
4. Solvent/degreaser- collected in lined steel drum, off-site disposal
5. Spent acid/caustics-N/A
6. Waste slop oil-N/A
7. Used lubrication oil- collected in a steel tank within a steel secondary containment for off-site disposal
8. Oil filters- collected in plastic over-pack drums within a secondary containment for offsite disposal
9. Solids and sludges from tanks-N/A
10. Painting wastes-N/A
11. Sewage- off-site disposal- POWT facility
12. Laboratory Wastes- cement residue is collected in a plastic container, stored in a steel roll-off bin within a secondary containment then disposed of off-site
13. Other Liquid Wastes- off spec. chemicals generated from the chemical loading process are stored in either plastic or steel drums or totes within a cement secondary containment and are disposed of off-site.
14. Other solid wastes- sediment from the truck wash bay is collected in a double lined steel ,sump stored in a steel roll-off container within a cement secondary containment, and disposed of off-site,

B. Collection and Storage Systems.

1. Truck Wastes-N/A
2. Truck tank and drum washing-N/A
3. Steam cleaning of parts and equipment-Truck wash bay water is treated by transferring water through two inter-connected below-ground double-lined steel mud settling pits to remove silt and other solids. The larger settling pit will contain 188 gallons. The small one holds 4.3 gallons. The water then passes through an above ground steel 840 gal. oil separator, which is placed within secondary containment, to remove oil and other hydrocarbons before wastewater is transferred via city sewer lines to Artesia Municipal Sewer Treatment Facility. The discharge of the oil/water separator is connected via 4" Sch. 40

PVC piping to the city sewer line. The 4" line was installed and pressure tested in December of 2003. See the test certification and testing procedure which is included as Attachment 5.

4. Solvent Degreaser- Used parts cleaning solvent is collected in 20-gallon steel drums in the parts washing system. The contractor, Safety Kleen Incorporated; of Midland Texas, exchanges the collection drums from the parts washer and the used solvent is hauled by truck for recycling.
5. Spent Acids or Caustics- N/A
6. Waste Slop Oil- N/A
7. Used lubricant and motor oil is collected from the truck shop and stored in an above ground 500 gallon steel tank placed within a secondary steel containment. The oil is then transported by tanker truck by Siemens Inc. of Houston, Texas for recycling.
8. Used oil filters are collected in plastic reseal-able drums within a plastic secondary containment. The drums are transported by truck by Siemens of Houston, Texas for recycling.
9. Solids and sludges from tanks-N/A
10. Paint wastes- N/A
11. Sewage- domestic waste from the office building is sent to City of Artesia POWT facility via underground 4" PVC sewer piping. The waste water from the cement testing facility is included with this waste stream.
12. Laboratory waste- waste cement residue (non-hazardous) is collected in an 8 gallon plastic tub which is emptied into a 20 yard steel roll-off container placed within a cement secondary containment. It is also analyzed to confirm as non-hazardous prior to disposal at CRI Incorporated prior to each shipment; Hobbs New Mexico, which is an OCD, approved landfill disposal facility.
13. Chemicals, which do not meet specifications or that are no longer usable are stored in either drums or tote tanks which are stored within cement secondary containment designed to hold 133% of the volume of the largest container, located in the waste storage area.. Upon their classification as either hazardous or non-hazardous using MSD sheets, these chemicals are then disposed of through an approved disposal company. Our preferred vendor for disposing of these wastes is Ashland Environmental Services in Dallas Texas. The end destination of these materials will vary depending upon their contents. The chemicals that are flammable are typically recycled as burner fuel through an approved incinerating facility. Other chemicals may be treated and disposed of in an approved landfill facility.
14. Mud and sludge from the truck wash bay is collected in two double-lined steel mud-settling pits and then transferred to a 20-yard roll-off bin placed within a cement secondary containment. The waste stream is analyzed to confirm as non-hazardous prior to each shipment before

disposal at CRI Incorporated; Hobbs New Mexico, which is an OCD, approved landfill disposal facility.

C. Existing Effluent and solids disposal

1. On-site facilities: There are no on-site disposal facilities at this location.
2. Off-site disposal: Used motor oil and used oil filters are shipped by truck to Siemens Hydrocarbon Services, Houston TX for recycling. Parts cleaning solvent is shipped by truck to Safety Kleen Systems, Midland TX for recycling. Washbay sludge and cement residue is shipped by truck to Controlled Recovery Inc. Hobbs, NM for disposal in an OCD approved oilfield waste material landfill.

9. Proposed Modifications

There are no proposed modifications to the collection/treatment/disposal systems at the Artesia Facility at this time. If changes do become necessary, the plans will be submitted to the NMOCD for approval prior to initiating construction.

10. Inspection, Maintenance, and Reporting

A routine inspection form is included in the enclosed Spill Prevention Control and Countermeasures Plan (Attachment 7) as Attachment 10 of the plan.

11. Spill/Leak prevention and Reporting Procedures

A spill prevention plan is included in the attached SPCC plan (Attachment 7), specifically in section 3.0. Spill reporting and cleanup instructions are included in section 5.0 and in attachments 5-8.

12. Site Characteristics

A. Hydrologic/geologic information:

1. Eagle Draw is an intermittent watercourse or arroyo located ¼ mile south of the facility. This arroyo drains into the Pecos River located approximately 2 miles east of the facility. There are no water wells located within ¼ mile of the facility.
2. Depth to ground water tables and TDS analysis results are included as Attachment 6.
3. Geological/hydrological characteristics of the facility are as follows: The site is on Quaternary alluvium up to 80 feet thick which is underlain by east-ward dipping anhydrites and sandstone of the Permian Artesia Group. At the site the alluvium is silt and clays with stringers of gypsum which is permeable. Ground water levels are 13-17 feet below the surface, with an eastward gradient towards the Pecos River over a mile away. The upper ground water is high in TDS and is not utilized for domestic or agricultural water.
4. Potential for flooding:
 - a. The facility is not located within a flood plain. Flooding is not likely to occur.
 - b. If minor flooding were to occur, the facility is located with a bermed area.

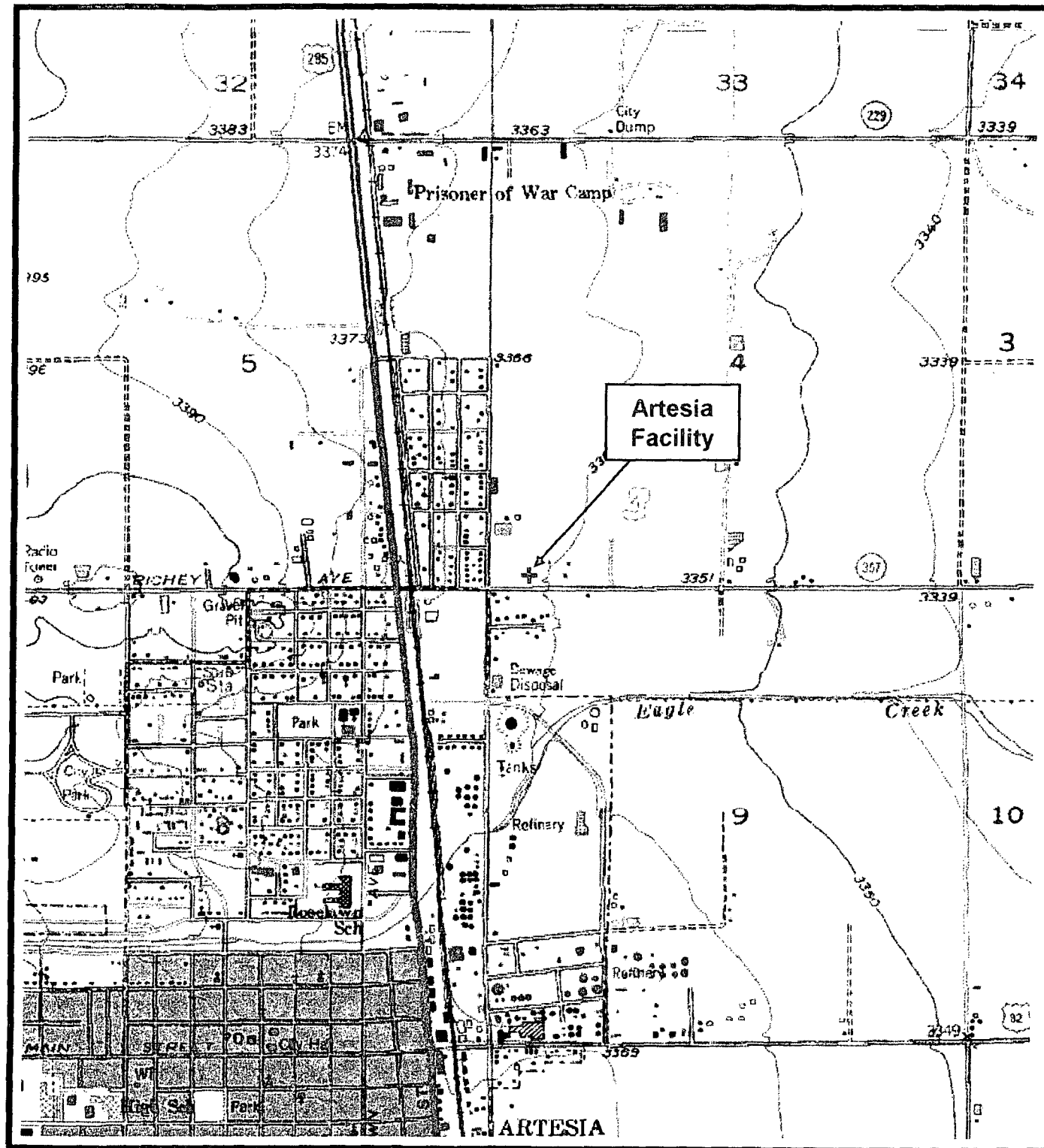
B. Each waste stream produced at this facility has been addressed by either engineering controls, procedural guidelines, or both to reduce or eliminate the possibility of contamination of the ground water. Effectiveness of the controls and guidelines currently in place are supported by analytical results. The information contained within this application documents that no current or future activity performed pursuant to the approval of this discharge plan will result in ground water degradation.

13. Other Compliance Information

1. A statement of commitment to NMOCD Rule 116 and WQCC Section 1203 are included as Attachment 8
2. There are no current plans to close the Artesia facility. If it were to be closed it would be closed in accordance with the Schlumberger Environmental Exit Survey Checklist included as Attachment 9.

ATTACHMENT 1

FACILITY MAPS



North

Figure 1

Topographic Map

Schlumberger

Artesia, New Mexico

Scale:

Map Source:

topozone

Project No:

1" ~ 1600 feet

Copyright 1999-2003 Maps a to come, Inc

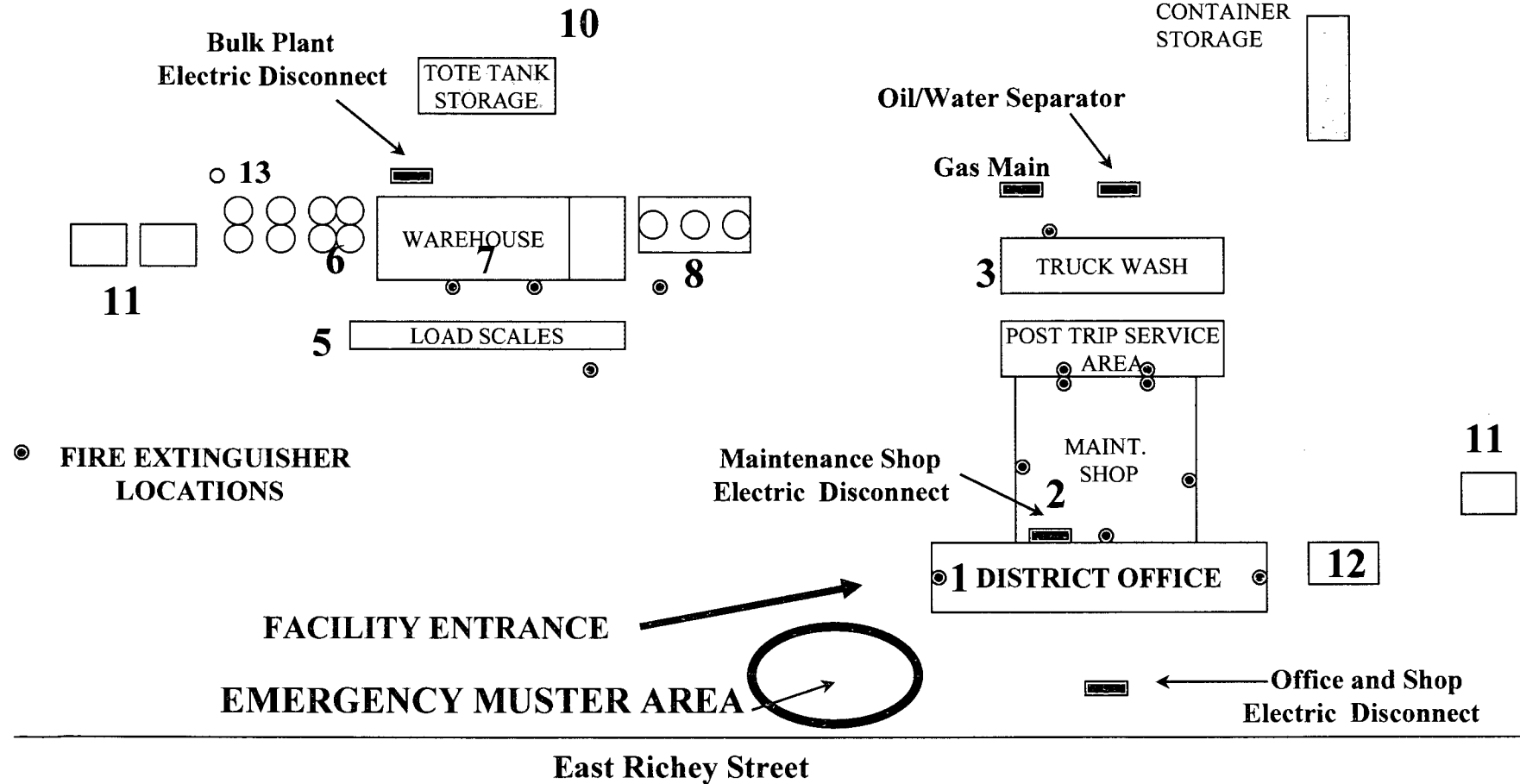
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ENSR
INTERNATIONAL

Schlumberger Technology Corporation ARTESIA DISTRICT

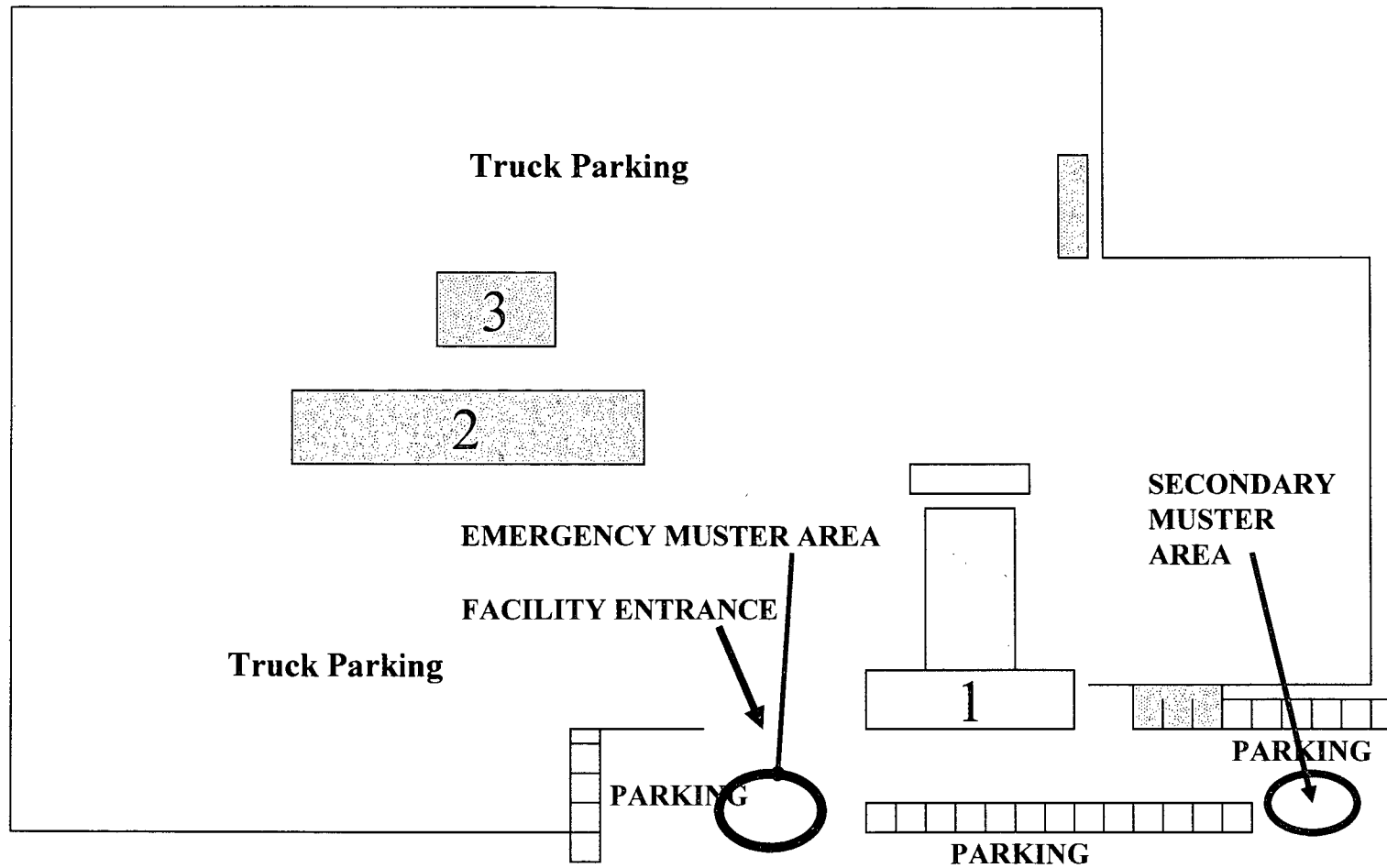


WASBAY MUD
CONTAINER
STORAGE



- 1- Dispatch
- 2- Maintenance Shop
- 3- Truck Wash Bay
- 5- Load Scales
- 6- Cement Storage Silos
- 7- Cement Warehouse
- 8- HCL Storage
- 10- Chemical storage area
- 11- Cement Samples
- 12- Handicap Parking
- 13- Fire Hydrant

ARTESIA DISTRICT



EAST RICHEY STREET

- 1. DISTRICT OFFICE & MAINTENANCE SHOP
- 2. CEMENT / BULK / HCL STORAGE
- 3. CHEMICAL WAREHOUSE

ATTACHMENT 2
LIST OF MATERIALS
STORED AT FACILITY

CHEMICALS STORED AT ARTESIA FACILITY

Chemical Code	Chemical name	Max Daily Amnt.	Avg. Daily Amnt.	UOM	Container	Storage Location	L/S
C. Acids and caustics							
H036	hydrochloric acid	113951.1	99531.6	LB	tanks	bulk plant	liquid
J227	benzoic acid	450	450	LB	bag	chemical warehouse	solid
L001	citric acid	2555	2385.3	LB	tote	drum storage	liquid
L022L	glycolic acid	50	50	LB	drum	drum storage	liquid
L401	acetic acid	5954.8	3456.9	LB	tote	drum storage	liquid
D. Detergents and soaps							
various aerosol cleaners	various	60	30	cans	cans	shop	liquid
truck cleaning soap	various	600	300	gal	tanks	truck wash bay	liquid
F103	surfactant	1201	781.4	LB	tote	drum storage	liquid
E. Solvents and degreasers							
D139	methanol blend	917.4	917.4	LB	tote	drum storage	liquid
K230B	ethanol	137.6	137.6	LB	drum	drum storage	liquid
L055	methanol blend	1150.9	911.6	LB	tote	drum storage	liquid
parts cleaning solvent	solvent	15	15	gal	drum	chemical warehouse	liquid
F. Paraffin treatment and emulsion breakers							
D047	polypropylene glycol	425.3	190.2	LB	drum	chemical warehouse	liquid
M045	antifoam agent	1701.4	1104.2	LB	cans	shop	solid
U066	2-butoxyethanol	510.4	464.6	LB	tote	drum storage	liquid
W053	heavy aromatic naphtha	2184.2	2066.4	LB	tote	drum storage	liquid
W054	methanol blend	225.2	180.1	LB	tote	drum storage	liquid
G. Biocides							
M275	mirobiocide	1	0.5	LB	cans	chemical warehouse	solid
H. Others							
A179	copper chloride dihydrate	207	177.4	LB	drum	drum storage	liquid
A262	corrosion inhibitor	884	670.5	LB	drum	drum storage	liquid
A264	corrosion inhibitor	780.6	505.9	LB	drum	drum storage	liquid
A272	organic acid inhibitor	202.2	158.6	LB	tote	drum storage	liquid
B124	propanol	708.9	708.9	LB	tote	drum storage	liquid
B155	cement retarder	281	147.2	LB	bag	chemical warehouse	solid
B159	cement additive	305	187.8	LB	bag	chemical warehouse	solid
B221B	guar gum/petroleum distillate slurry	125.1	62.6	LB	tanks	bulk plant	liquid
D013	cement retarder	5155	3120.6	LB	bag	chemical warehouse	solid
D020	bentonite	80677	53324.2	LB	tanks	bulk plant	solid
D024	gilsonite	41546	22892.8	LB	bag	chemical warehouse	solid
D029	celophane flakes	3198	1015.5	LB	bag	chemical warehouse	solid
D031	barium sulfate	8300	4184.2	LB	bag	chemical warehouse	solid
D044	sodium chloride	80302	56399.1	LB	bag	chemical warehouse	solid

D046	anitfoam	5434	3286.6	LB	bag	chemical warehouse	solid	
D049	calcium aluminum silicates	416230	338968.3	LB	tanks	bulk plant	solid	
D053	cement agent	12913	9876	LB	bag	chemical warehouse	solid	
D065	sodium polynaphthelene sulfate	4169	2814.1	LB	bag	chemical warehouse	solid	
D075	sodium silicate	6118.2	2935.3	LB	tote	drum storage	liquid	
D079	disodium metasilicate	2100	1956.4	LB	bag	chemical warehouse	solid	
D112	hydroxyethylcellulose	4032	1375.5	LB	bag	chemical warehouse	solid	
D122A	chemical wash concentrate	1453.5	974.1	LB	drum	drum storage	liquid	
D124	litefill extender	247740	161947.4	LB	bag	chemical warehouse	solid	
D128	crystalline silica	1750	1322.9	LB	bag	chemical warehouse	solid	
D130	polyethylene terephthalate	2487	1692.3	LB	bag	chemical warehouse	solid	
D132	fly ash	293951	195337.1	LB	tanks	bulk plant	liquid	
D145A	formaldehyde blend	289.6	266.8	LB	drum	drum storage	liquid	
D151	calcium carbonate	151721	85085.8	LB	tanks	bulk plant	solid	
D153	crystalline silica	10104	7259.4	LB	bag	chemical warehouse	solid	
D154	non-crystalline silica	100	50	LB	bag	chemical warehouse	solid	
D167	aliphatic amide polymer	6062	2728.4	LB	bag	chemical warehouse	solid	
D174	calcium and magnesium Oxide	5225	2451.7	LB	bag	chemical warehouse	solid	
D177	uniset light additive	166.8	166.8	LB	drum	drum storage	liquid	
D178	crystalline silica	230483	180513.2	LB	tanks	bulk plant	solid	
D182	mudpush spacer	1050	641.5	LB	bag	chemical warehouse	solid	
D600G	gasblock control additive	16930.2	11742.7	LB	tote	drum storage	liquid	
D604AM	inorganic chlorine compound	7647.8	5525.3	LB	tote	drum storage	liquid	
D800	sodium lignoulfonate	1675	683	LB	bag	chemical warehouse	liquid	
D801	cement retarder	5421	3576.2	LB	tote	drum storage	liquid	
D901	cement	98292	68791.1	LB	tanks	bulk plant	solid	
D903	cement	525793	357422.5	LB	tanks	bulk plant	solid	
D909	cement	238120	192394.4	LB	tanks	bulk plant	solid	
F078	quarternary amine compound	1261	1261	LB	tote	drum storage	liquid	
J066	sodium chloride	100	50	LB	bag	chemical warehouse	solid	
J110	silica flour	50	50	LB	bag	chemical warehouse	solid	
J237A	acidizing diverting agent	784.6	521.9	LB	drum	drum storage	liquid	
J424	guar gum	2500	1659.4	LB	bag	chemical warehouse	solid	
J501	inert fiber	3125	1615.4	LB	bag	chemical warehouse	solid	
K187	amine phenol derivative	25.5	25.5	LB	drum	drum storage	liquid	
K235B	epoxysilanlo	27.5	13.8	LB	drum	drum storage	liquid	
L058	sodium erythorbate	219	172.2	LB	drum	drum storage	liquid	
L063	ammonium mercaptoacetate	2368.6	1471.2	LB	tote	drum storage	liquid	
L064	tetrmethylammonium chloride	3044.1	1659.7	LB	tote	drum storage	liquid	
M003	sodium carbonate	3750	3750	LB	bag	chemical warehouse	solid	

[illegible]

ATTACHMENT 3
WASTE STREAM
ANALYTICAL RESULTS



CARDINAL LABORATORIES

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

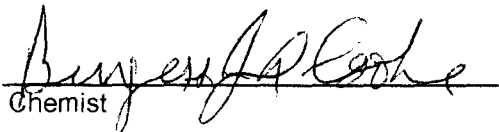
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

Receiving Date: 02/06/07
Reporting Date: 02/19/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD

Sampling Date: 02/05/07
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM/AB

LAB NUMBER	SAMPLE ID	COD (mg/L)	FOG (mg/L)
ANALYSIS DATE		02/06/07	02/16/07
H12152-1	WASTE WATER	4.23	5.2
Quality Control		19.8	95.1
True Value QC		20.0	100
% Recovery		99	95.1
Relative Percent Difference		7.4	10.4
METHODS: EPA 600/4-79-020		410.4	413.1


Chemist


Date

H12152F&C

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 88210
FAX TO:

Receiving Date: 02/06/07
Reporting Date: 02/08/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD
Lab Number: H12152-1
Sample ID: WASTE WATER

Analysis Date: 02/07/06
Sampling Date: 02/05/07
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

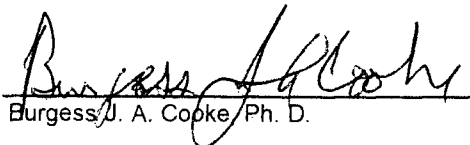
TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H12152-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.109	109	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.105	105	0.100
Methyl Ethyl Ketone	200	0.054	<0.050	0.108	108	0.100
Chloroform	6.0	<0.005	<0.005	0.109	109	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.100	100	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.101	101	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.104	104	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.097	97	0.100
Chlorobenzene	100	<0.005	<0.005	0.094	94	0.100
1,4-Dichlorobenzene*	7.5	0.012	0.006	0.105	105	0.100

*Analyte detected at comparable levels in the sample & method blank.

% RECOVERY

Dibromofluoromethane	102
Toluene-d8	100
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph. D.

2/8/07
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.



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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
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FAX TO:

Receiving Date: 02/06/07
Reporting Date: 02/13/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD
Lab Number: H12152-1
Sample ID: WASTE WATER

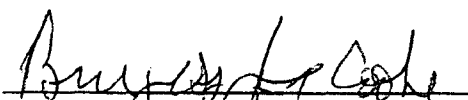
Extraction Date: 02/10/07
Analysis Date: 02/12/07
Sampling Date: 02/05/07
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H12152-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.012	24	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.042	84	0.050
o-Cresol	200	<0.050	<0.005	0.042	84	0.050
m, p-Cresol	200	<0.050	<0.005	0.041	82	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.041	82	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.048	96	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.045	90	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.049	98	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.049	98	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.050	100	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.045	90	0.050
Pentachlorophenol	100	<0.050	<0.005	0.047	94	0.050

% RECOVERY

Fluorophenol	28
Phenol-d5	24
Nitrobenzene-d5	65
2-Fluorobiphenyl	57
2,4,6-Tribromophenol	98
Terphenyl-d14	74

METHODS: EPA SW-846 1311, 8270, 3510


Burgess J. A. Cooke, Ph. D.

2/13/07
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 88210
FAX TO:

Receiving Date: 02/06/07
Reporting Date: 02/13/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD

Sampling Date: 02/05/07
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM/BC

LAB NO.	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/09/07	02/09/07	02/06/07	02/06/07
H12152-1	WASTE WATER	Not reactive	Not reactive	7.21	>140
Quality Control		NR	NR	6.91	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	98.7	NR
Relative Percent Difference		NR	NR	0.4	NR

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

Darwin Thompson
Ermaul de la Rosa

Bryan J. Cook
Chemist

2/13/07
Date

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

Receiving Date: 02/06/07
Reporting Date: 02/08/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD
Lab Number: H12152-3
Sample ID: PARTS SOLVENT

Analysis Date: 02/07/06
Sampling Date: 02/05/07
Sample Type: LIQUID (OIL)
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

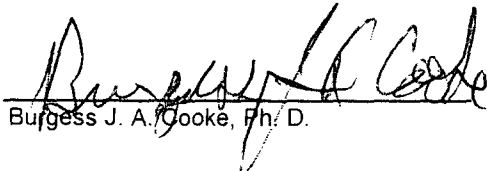
TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H12152-3	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.109	109	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.105	105	0.100
Methyl Ethyl Ketone	200	0.070	<0.050	0.108	108	0.100
Chloroform	6.0	0.008	<0.005	0.109	109	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.100	100	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.101	101	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.104	104	0.100
Tetrachloroethylene	0.7	0.007	<0.005	0.097	97	0.100
Chlorobenzene	100	<0.005	<0.005	0.094	94	0.100
1,4-Dichlorobenzene*	7.5	0.017	0.006	0.105	105	0.100

*Analyte detected at comparable levels in the sample & method blank.

% RECOVERY

Dibromofluoromethane	105
Toluene-d8	107
Bromofluorobenzene	110

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph.D.

2/8/07
Date

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

Receiving Date: 02/06/07
Reporting Date: 02/13/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD
Lab Number: H12152-3
Sample ID: PARTS SOLVENT

Extraction Date: 02/10/07
Analysis Date: 02/12/07
Sampling Date: 02/05/07
Sample Type: LIQUID (OIL)
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

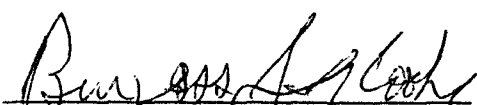
TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H12152-3	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.100	<0.005	0.012	24	0.050
1,4-Dichlorobenzene	7.50	<0.100	<0.005	0.042	84	0.050
o-Cresol	200	<0.100	<0.005	0.042	84	0.050
m, p-Cresol	200	<0.100	<0.005	0.041	82	0.050
Hexachloroethane	3.00	<0.100	<0.005	0.041	82	0.050
Nitrobenzene	2.00	<0.100	<0.005	0.048	96	0.050
Hexachloro-1,3-butadiene	0.500	<0.100	<0.005	0.045	90	0.050
2,4,6-Trichlorophenol	2.00	<0.100	<0.005	0.049	98	0.050
2,4,5-Trichlorophenol	400	<0.100	<0.005	0.049	98	0.050
2,4-Dinitrotoluene	0.130	<0.100	<0.005	0.050	100	0.050
Hexachlorobenzene	0.130	<0.100	<0.005	0.045	90	0.050
Pentachlorophenol	100	<0.100	<0.005	0.047	94	0.050

% RECOVERY

Fluorophenol	28
Phenol-d5	MI (29)
Nitrobenzene-d5	MI (80)
2-Fluorobiphenyl	88
2,4,6-Tribromophenol	101
Terphenyl-d14	114

METHODS: EPA SW-846 1311, 8270, 3510

NOTE: Matrix interference (MI) noted; dilution required.


Burgess J. A. Cooke, Ph. D.

2/13/07
Date

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

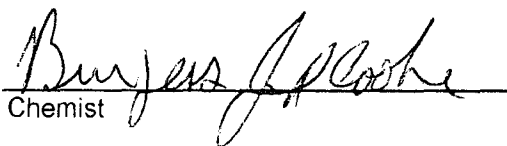
Receiving Date: 02/06/07
Reporting Date: 02/19/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD

Sampling Date: 02/05/07
Sample Type: LIQUID (OIL)
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM/BC

LAB NO.	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/09/07	02/09/07	02/06/07	02/19/07
H12152-3	PARTS SOLVENT	Not reactive	Not reactive	6.07	>140
Quality Control		NR	NR	6.91	90*
True Value QC		NR	NR	7.00	90+2*
% Recovery		NR	NR	98.7	NR
Relative Percent Difference		NR	NR	0.4	NR

*o-Xylene used for flash pt. QC.

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


Chemist

3/19/07
Date

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

Receiving Date: 02/06/07
Reporting Date: 02/13/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD

Sampling Date: 02/05/07
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM/BC

REACTIVITY

LAB NO. SAMPLE ID Sulfide Cyanide CORROSIVITY IGNITABILITY
(ppm) (ppm) (pH) (°F)

ANALYSIS DATE:	02/09/07	02/09/07	02/06/07	02/06/07
H12152-2 WASH BAY SLUDGE	Not reactive	Not reactive	8.65	Nonflammable
Quality Control	NR	NR	6.91	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	98.7	NR
Relative Percent Difference	NR	NR	0.4	NR

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


Chemist

2/13/07
Date

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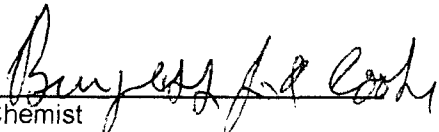
ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO:

Receiving Date: 02/06/07
Reporting Date: 02/13/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD

Analysis Date: 02/13/06
Sampling Date: 02/05/07
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/L)
H12152-2	WASH BAY SLUDGE	47500
Quality Control		235
True Value QC		240
% Recovery		98.1
Relative Percent Difference		6.6

METHOD: EPA 418.1


Chemist

2/13/07
Date

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

Receiving Date: 02/06/07
Reporting Date: 02/13/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD
Lab Number: H12152-2
Sample ID: WASH BAY SLUDGE

Extraction Date: 02/10/07
Analysis Date: 02/12/07
Sampling Date: 02/05/07
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

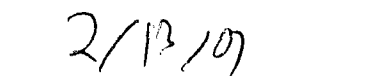
TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H12152-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.012	24	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.042	84	0.050
o-Cresol	200	<0.020	<0.005	0.042	84	0.050
m, p-Cresol	200	<0.020	<0.005	0.041	82	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.041	82	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.048	96	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.045	90	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.049	98	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.049	98	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.050	100	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.045	90	0.050
Pentachlorophenol	100	<0.020	<0.005	0.047	94	0.050

% RECOVERY

Fluorophenol	34
Phenol-d5	24
Nitrobenzene-d5	65
2-Fluorobiphenyl	49
2,4,6-Tribromophenol	98
Terphenyl-d14	71

METHODS: EPA SW-846 1311, 8270, 3510


Burgess J. A. Cooke, Ph. D.


Date

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

Receiving Date: 02/06/07
Reporting Date: 02/08/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD
Lab Number: H12152-2
Sample ID: WASH BAY SLUDGE

Analysis Date: 02/07/06
Sampling Date: 02/05/07
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

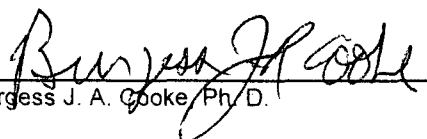
TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H12152-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.109	109	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.105	105	0.100
Methyl Ethyl Ketone	200	0.074	<0.050	0.108	108	0.100
Chloroform	6.0	0.010	<0.005	0.109	109	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.100	100	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.101	101	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.104	104	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.097	97	0.100
Chlorobenzene	100	<0.005	<0.005	0.094	94	0.100
1,4-Dichlorobenzene*	7.5	0.013	0.006	0.105	105	0.100

*Analyte detected at comparable levels in the sample & method blank.

% RECOVERY

Dibromofluoromethane	99
Toluene-d8	97
Bromofluorobenzene	103

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph.D.

2/8/07
Date

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

Receiving Date: 02/06/07
Reporting Date: 02/15/07
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS 2007
Project Location: ARTESIA YARD

Sampling Date: 02/05/07
Sample Type: (1) WASTEWATER, (2) SLUDGE
(3) LIQUID (OIL)
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/09/07	02/14/07	02/15/07	02/14/07	02/14/07	02/12/07	02/14/07	02/09/07
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H12152-1	WASTEWATER	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
H12152-2	WASH BAY SLUDGE	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
H12152-3	PARTS SOLVENT	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
Quality Control		0.146	4.56	23.5	2.06	2.03	1.00	0.0099	0.152
True Value QC		0.150	5.00	25.0	2.00	2.00	1.00	0.0100	0.150
% Recovery		97	91	94	103	102	100	99	101
Relative Standard Deviation		6.8	0.04	1.8	0.4	0.4	1.2	1	3.8
METHODS: EPA 1311, 600/4-91/010		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

Date

H12152M

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CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: <u>Schlumberger</u>				BILL TO				ANALYSIS REQUEST												
Project Manager: <u>Darwin Thompson</u>				P.O. #:				TCLP PCH TPH FOG COD												
Address: <u>PO Box 300</u>				Company:																
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>87210</u>				Attn:																
Phone #: _____ Fax #: _____				Address:																
Project #: _____ Project Owner:				City:																
Project Name: <u>Annual Analysis 2007</u>				State: _____ Zip: _____																
Project Location: <u>Artesia yard</u>				Phone #: _____																
Sampler Name: <u>Darwin Thompson</u>				Fax #: _____																
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING												
Lab I.D.	Sample I.D.	(GRAB OR COMP.)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						
H12152-1	waste water	G-2											2-5-07	1500						
-2	wash bay sludge	C-1											2-5-07	1500						
-3	parts solvent	G-1											2-5-07	1520						

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: <u>Darwin Thompson</u>		Date: <u>2-6-07</u>	Received By: <u>Shel Fullerton</u>	Phone Result: ☐ Yes ☐ No
Relinquished By: _____		Time: <u>1050 AM</u>	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One)		Sample Condition	Checked By:	REMARKS:
Sampler - UPS - Bus - Other:		Temp. °C ☒ Intact? ☒ Yes ☐ No	(Initials) <u>NA</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.

SAMPLING DOCUMENTATION FORM

This form must be accurately completed for each waste stream being sampled and analyzed for the purposes of waste characterization and assignment of a Texas Solid Waste Code.

Facility name: Artesia

Facility address: 507 E Richey

Sample collection date: 2-5-07

Name for waste stream being sampled: waste water

Describe the name of the unit and the exact sampling location(s):

discharge sampling port from oil separator unit

List and describe the sampling equipment used to collect the sample(s):

Plastic cup, latex glove

Describe the sample collection methods:

took sample from midstream of discharge to city sewer

Describe the sample handling techniques:

Sample Containers: glass jars

Sample Preservation: ice

Chain of Custody: yes

Other Information: _____

Is the sample representative of the waste stream? yes

Darwin Thompson Darwin Thompson
Name of person(s) who collected sample(s) [print & sign]

2-5-07
Date Signed

30 TAC §335.510 Sampling Documentation

- (a) Generators who use analytical data to classify their waste pursuant to §335.509 of this title (relating to Waste Analysis) must maintain documentation of their sampling procedures.
- (b) The sampling documentation must, at a minimum, include the following:
 - (1) dates samples were collected;
 - (2) a description of the site or unit from which the sample is taken and sampling location(s) at the site unit;
 - (3) sample methods and sample equipment utilized; and
 - (4) description of sample handling techniques, including containerization, preservation, and chain of custody.
- (c) Generators shall document all the information listed in subsection (b) of this section, and shall retain copies on-site in accordance with §335.513 of this title (relating to Documentation Required).
- (d) Generators who have existing sampling documentation, which includes the information listed in subsection (b) of this section, do not need to prepare any new documentation specifically for this section.

SAMPLING DOCUMENTATION FORM

This form must be accurately completed for each waste stream being sampled and analyzed for the purposes of waste characterization and assignment of a Texas Solid Waste Code.

Facility name: Antesia

Facility address: 507 E Mickey

Sample collection date: 7-5-07

Name for waste stream
being sampled:

wash bay sludge

Describe the name of the
unit and the exact
sampling location(s):

roll off bin for sludge

List and describe the
sampling equipment used
to collect the sample(s):

glass jar

Describe the sample
collection methods:

took a composite sample from several
locations in the bin

Describe the sample handling techniques:

Sample Containers: glass jar

Sample Preservation: ice

Chain of Custody: yes

Other Information: _____

Is the sample representative of the waste stream? yes

Darwin Thompson Darwin Thompson
Name of person(s) who collected sample(s) [print & sign]

7-5-07
Date Signed

30 TAC §335.510 Sampling Documentation

- (a) Generators who use analytical data to classify their waste pursuant to §335.509 of this title (relating to Waste Analysis) must maintain documentation of their sampling procedures.
- (b) The sampling documentation must, at a minimum, include the following:
- (1) dates samples were collected;
 - (2) a description of the site or unit from which the sample is taken and sampling location(s) at the site unit;
 - (3) sample methods and sample equipment utilized; and
 - (4) description of sample handling techniques, including containerization, preservation, and chain of custody.
- (c) Generators shall document all the information listed in subsection (b) of this section, and shall retain copies on-site in accordance with §335.513 of this title (relating to Documentation Required).
- (d) Generators who have existing sampling documentation, which includes the information listed in subsection (b) of this section, do not need to prepare any new documentation specifically for this section.

SAMPLING DOCUMENTATION FORM

This form must be accurately completed for each waste stream being sampled and analyzed for the purposes of waste characterization and assignment of a Texas Solid Waste Code.

Facility name: Antesia

Facility address: 507 E. Richey

Sample collection date: 2-5-07

Name for waste stream
being sampled:

Safety Kleen solvent

Describe the name of the
unit and the exact
sampling location(s):

Pants washer

List and describe the
sampling equipment used
to collect the sample(s):

glass jar

Describe the sample
collection methods:

caught sample from circulating pump

Describe the sample handling techniques:

Sample Containers: glass jar

Sample Preservation: ice

Chain of Custody: yes

Other Information:

Is the sample representative of the waste stream? yes

Darwin Thompson Darwin Thompson
Name of person(s) who collected sample(s) [print & sign]

2-5-07
Date Signed

30 TAC §335.510 Sampling Documentation

- (a) Generators who use analytical data to classify their waste pursuant to §335.509 of this title (relating to Waste Analysis) must maintain documentation of their sampling procedures.
- (b) The sampling documentation must, at a minimum, include the following:
- (1) dates samples were collected;
 - (2) a description of the site or unit from which the sample is taken and sampling location(s) at the site unit;
 - (3) sample methods and sample equipment utilized; and
 - (4) description of sample handling techniques, including containerization, preservation, and chain of custody.
- (c) Generators shall document all the information listed in subsection (b) of this section, and shall retain copies on-site in accordance with §335.513 of this title (relating to Documentation Required).
- (d) Generators who have existing sampling documentation, which includes the information listed in subsection (b) of this section, do not need to prepare any new documentation specifically for this section.

Analytical Report 292672

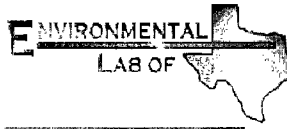
for

Schlumberger

Project Manager: Darwin Thompson

Permit Analysis

21-NOV-07



12600 West I-20 East Odessa, Texas 79765

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Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

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21-NOV-07

Project Manager: **Darwin Thompson**
Schlumberger
P.O Box 300
Artesia, NM 88211

Reference: XENCO Report No: **292672**
Permit Analysis
Project Address: Artesia Yard

Darwin Thompson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 292672. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 292672 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read "Brent Barron, II", written over a horizontal line.

Brent Barron, II
Odessa Laboratory Manager

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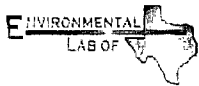


Sample Cross Reference 292672

Schlumberger, Artesia, NM

Permit Analysis

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Wash Bay Water	W	Nov-07-07 11:00		292672-001
Cement Lab / Office Water	W	Nov-07-07 10:30		292672-002



Certificate of Analysis Summary 292672

Schlumberger, Artesia, NM

Project Name: Permit Analysis

Project Id:

Contact: Darwin Thompson

Project Location: Artesia Yard

Date Received in Lab: Nov-07-07 05:00 pm

Report Date: 21-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	292672-001	292672-002		
	Field Id:	Wash Bay Water	Cement Lab / Office Water		
	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Nov-07-07 11:00	Nov-07-07 10:30		
Alkalinity by EPA 310.1	Extracted:				
	Analyzed:	Nov-12-07 15:00	Nov-12-07 15:00		
	Units/RL:	mg/L RL	mg/L RL		
Alkalinity, Total (as CaCO3)		204 10.0	240 10.0		
Inorganic Anions by EPA 300	Extracted:				
	Analyzed:	Nov-09-07 17:23	Nov-09-07 17:47		
	Units/RL:	mg/L RL	mg/L RL		
Bromide		ND 1.00	1.36 1.00		
Chloride		12.6 1.00	47.3 1.00		
Fluoride		1.29 1.00	1.50 1.00		
Nitrate as N		0.537 0.226	0.679 0.226		
Sulfate		383 D 25.0	477 D 25.0		
Metals by EPA 200.8	Extracted:	Nov-09-07 09:50	Nov-09-07 09:50		
	Analyzed:	Nov-12-07 21:50	Nov-12-07 21:54		
	Units/RL:	mg/L RL	mg/L RL		
Aluminum		1.80 0.020	3.70 0.010		
Arsenic		ND 0.004	0.003 0.002		
Barium		0.063 0.010	0.237 0.005		
Boron		0.083 0.060	0.068 0.030		
Cadmium		ND 0.002	0.003 0.001		
Chromium		ND 0.006	0.011 0.003		
Cobalt		ND 0.010	ND 0.005		
Copper		0.114 0.006	0.022 0.003		
Lead		0.006 0.004	0.010 0.002		
Manganese		0.081 0.006	0.090 0.003		
Mercury		ND 0.0008	ND 0.0004		
Molybdenum		ND 0.020	0.013 0.010		
Nickel		ND 0.010	ND 0.005		
Selenium		ND 0.006	ND 0.003		
Silver		ND 0.004	ND 0.002		
Zinc		0.318 0.006	0.097 0.003		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 292672

Schlumberger, Artesia, NM

Project Name: Permit Analysis

Project Id:

Contact: Darwin Thompson

Project Location: Artesia Yard

Date Received in Lab: Nov-07-07 05:00 pm

Report Date: 21-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	292672-001	292672-002		
	Field Id:	Wash Bay Water	Cement Lab / Office Water		
	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Nov-07-07 11:00	Nov-07-07 10:30		
Metals per ICP by SW846 6010B	Extracted:				
	Analyzed:	Nov-12-07 00:00	Nov-12-07 00:00		
	Units/RL:	mg/L RL	mg/L RL		
Calcium		172 0.100	184 0.100		
Iron		0.174 0.030	0.163 0.030		
Magnesium		45.5 0.010	46.8 0.010		
Potassium		5.11 0.500	4.66 0.500		
Sodium		21.6 0.500	45.6 0.500		
PAHs by EPA 8310	Extracted:	Nov-13-07 12:06	Nov-13-07 12:08		
	Analyzed:	Nov-14-07 02:19	Nov-13-07 23:35		
	Units/RL:	ug/L RL	ug/L RL		
Acenaphthene		ND 0.110	ND 0.110		
Acenaphthylene		ND 0.110	ND 0.110		
Anthracene		ND 0.170	ND 0.170		
Benzo(a)anthracene		ND 0.096	ND 0.096		
Benzo(a)pyrene		ND 0.140	ND 0.140		
Benzo(g,h,i)perylene		ND 0.260	ND 0.260		
1-Methylnaphthalene		ND 0.120	ND 0.120		
2-Methylnaphthalene		ND 0.120	ND 0.120		
Benzo(k)fluoranthene		ND 0.084	ND 0.084		
Benzo(b)fluoranthene		ND 0.084	ND 0.084		
Chrysene		ND 0.130	ND 0.130		
Dibenz(a,h)Anthracene		ND 0.048	ND 0.048		
Fluoranthene		ND 0.130	ND 0.130		
Fluorene		ND 0.150	ND 0.150		
Indeno(1,2,3-c,d)Pyrene		ND 0.140	ND 0.140		
Naphthalene		0.496 0.120	0.258 0.120		
Phenanthrene		ND 0.100	ND 0.100		
Pyrene		ND 0.120	0.126 0.120		

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Odessa Laboratory Director



Certificate of Analysis Summary 292672

Schlumberger, Artesia, NM

Project Name: Permit Analysis

Project Id:
Contact: Darwin Thompson
Project Location: Artesia Yard

Date Received in Lab: Nov-07-07 05:00 pm
Report Date: 21-NOV-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	292672-001	292672-002		
	Field Id:	Wash Bay Water	Cement Lab / Office Water		
	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Nov-07-07 11:00	Nov-07-07 10:30		
Pesticides and PCBs by EPA 608	Extracted:	Nov-12-07 10:22	Nov-12-07 10:24		
	Analyzed:	Nov-13-07 05:40	Nov-13-07 06:07		
	Units/RL:	ug/L RL	ug/L RL		
PCB-1016		ND 0.500	ND 0.500		
PCB-1221		ND 0.500	ND 0.500		
PCB-1232		ND 0.500	ND 0.500		
PCB-1242		ND 0.500	ND 0.500		
PCB-1248		ND 0.500	ND 0.500		
PCB-1254		ND 0.500	ND 0.500		
PCB-1260		ND 0.500	ND 0.500		
Phenolics Total by EPA 420.1	Extracted:	Nov-15-07 14:44	Nov-15-07 14:48		
	Analyzed:				
	Units/RL:	mg/L RL	mg/L RL		
Phenolic		ND 0.050	ND 0.050		
Residue, Filterable (TDS) by EPA 160.1	Extracted:	Nov-12-07 16:00	Nov-12-07 16:00		
	Analyzed:				
	Units/RL:	mg/L RL	mg/L RL		
Total dissolved solids		754 5.00	952 5.00		
Specific Conductance by EPA 120.1	Extracted:	Nov-08-07 15:55	Nov-08-07 15:55		
	Analyzed:				
	Units/RL:	us/cm RL	us/cm RL		
Conductivity		1090 50.0	1340 50.0		
Total Cyanide by EPA 335.4	Extracted:	Nov-13-07 12:46	Nov-13-07 12:48		
	Analyzed:				
	Units/RL:	mg/L RL	mg/L RL		
Cyanide, Total		ND 0.020	ND 0.020		

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Odessa Laboratory Director



Certificate of Analysis Summary 292672

Schlumberger, Artesia, NM

Project Name: Permit Analysis

Project Id:

Date Received in Lab: Nov-07-07 05:00 pm

Contact: Darwin Thompson

Report Date: 21-NOV-07

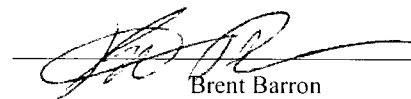
Project Location: Artesia Yard

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	292672-001	292672-002		
	Field Id:	Wash Bay Water	Cement Lab / Office Water		
	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Nov-07-07 11:00	Nov-07-07 10:30		
VOA GC/MS by EPA 624	Extracted:	Nov-12-07 16:40	Nov-12-07 16:50		
	Analyzed:	Nov-12-07 17:07	Nov-12-07 18:56		
	Units/RL:	mg/L RL	mg/L RL		
Acrolein		ND 0.050	ND 0.050		
Acrylonitrile		ND 0.050	ND 0.050		
Benzene		ND 0.005	ND 0.005		
Bromodichloromethane		ND 0.005	ND 0.005		
Bromoform		ND 0.005	ND 0.005		
Methyl bromide		ND 0.005	ND 0.005		
Carbon Tetrachloride		ND 0.005	ND 0.005		
Chlorobenzene		ND 0.005	ND 0.005		
Chloroethane		ND 0.010	ND 0.010		
2-Chloroethyl Vinyl Ether		ND 0.005	ND 0.005		
Chloroform		ND 0.005	ND 0.005		
Methyl Chloride		ND 0.010	ND 0.010		
Dibromochloromethane		ND 0.005	ND 0.005		
1,2-Dichlorobenzene		ND 0.005	ND 0.005		
1,3-Dichlorobenzene		ND 0.005	ND 0.005		
1,4-Dichlorobenzene		ND 0.005	ND 0.005		
1,1-Dichloroethane		ND 0.005	ND 0.005		
1,2-Dichloroethane		ND 0.005	ND 0.005		
1,1-Dichloroethene		ND 0.005	ND 0.005		
trans-1,2-dichloroethylene		ND 0.005	ND 0.005		
1,2-Dichloropropane		ND 0.005	ND 0.005		
cis-1,3-Dichloropropene		ND 0.005	ND 0.005		
trans-1,3-dichloropropene		ND 0.005	ND 0.005		
Ethylbenzene		ND 0.005	ND 0.005		
Methylene Chloride		ND 0.005	ND 0.005		
1,1,2,2-Tetrachloroethane		ND 0.005	ND 0.005		
Tetrachloroethylene		ND 0.005	ND 0.005		
Toluene		ND 0.005	ND 0.005		
1,1,1-Trichloroethane		ND 0.005	ND 0.005		
1,1,2-Trichloroethane		ND 0.005	ND 0.005		
Trichloroethylene		ND 0.005	ND 0.005		
Trichlorofluoromethane		ND 0.005	ND 0.005		
o-Xylene		ND 0.005	ND 0.005		
m,p-Xylene		ND 0.010	ND 0.010		

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Odessa Laboratory Director



Certificate of Analysis Summary 292672

Schlumberger, Artesia, NM

Project Name: Permit Analysis

Project Id:

Contact: Darwin Thompson

Project Location: Artesia Yard

Date Received in Lab: Nov-07-07 05:00 pm

Report Date: 21-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	292672-001	292672-002		
	Field Id:	Wash Bay Water	Cement Lab / Office Water		
	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Nov-07-07 11:00	Nov-07-07 10:30		
VOA GC/MS by EPA 624	Extracted:	Nov-12-07 16:40	Nov-12-07 16:50		
	Analyzed:	Nov-12-07 17:07	Nov-12-07 18:56		
	Units/RL:	mg/L RL	mg/L RL		
Vinyl Chloride		ND 0.002	ND 0.002		
pH by EPA 150.1	Extracted:				
	Analyzed:	Nov-08-07 15:40	Nov-08-07 15:40		
	Units/RL:	SU RL	SU RL		
pH		7.63	8.46		

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Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch #: 708421

Sample: 292672-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	1.10	1.00	110	20-116	

Lab Batch #: 708421

Sample: 292672-002 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	1.16	1.00	116	20-116	

Lab Batch #: 708421

Sample: 501435-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	1.09	1.00	109	20-116	

Lab Batch #: 708421

Sample: 501435-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	1.10	1.00	110	20-116	

Lab Batch #: 708421

Sample: 501435-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	1.06	1.00	106	20-116	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch #: 708489

Sample: 292672-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.650	1.00	65	25-143	
Tetrachloro-m-xylene	0.789	1.00	79	35-135	

Lab Batch #: 708489

Sample: 292672-002 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.548	1.00	55	25-143	
Tetrachloro-m-xylene	0.941	1.00	94	35-135	

Lab Batch #: 708489

Sample: 501474-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	1.02	1.00	102	25-143	
Tetrachloro-m-xylene	1.07	1.00	107	35-135	

Lab Batch #: 708489

Sample: 501474-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.800	1.00	80	25-143	
Tetrachloro-m-xylene	1.11	1.00	111	35-135	

Lab Batch #: 708489

Sample: 501474-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	1.01	1.00	101	25-143	
Tetrachloro-m-xylene	1.06	1.00	106	35-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch #: 708367

Sample: 292672-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

VOA GC/MS by EPA 624	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0486	0.0500	97	86-115	
Dibromofluoromethane	0.0486	0.0500	97	86-118	
1,2-Dichloroethane-D4	0.0509	0.0500	102	80-120	
Toluene-D8	0.0496	0.0500	99	88-110	

Lab Batch #: 708367

Sample: 292672-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

VOA GC/MS by EPA 624	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0505	0.0500	101	86-115	
Dibromofluoromethane	0.0490	0.0500	98	86-118	
1,2-Dichloroethane-D4	0.0486	0.0500	97	80-120	
Toluene-D8	0.0498	0.0500	100	88-110	

Lab Batch #: 708367

Sample: 292672-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

VOA GC/MS by EPA 624	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0490	0.0500	98	86-115	
Dibromofluoromethane	0.0497	0.0500	99	86-118	
1,2-Dichloroethane-D4	0.0513	0.0500	103	80-120	
Toluene-D8	0.0497	0.0500	99	88-110	

Lab Batch #: 708367

Sample: 292672-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

VOA GC/MS by EPA 624	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0504	0.0500	101	86-115	
Dibromofluoromethane	0.0493	0.0500	99	86-118	
1,2-Dichloroethane-D4	0.0563	0.0500	113	80-120	
Toluene-D8	0.0501	0.0500	100	88-110	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch #: 708367

Sample: 501418-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

VOA GC/MS by EPA 624 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0512	0.0500	102	86-115	
Dibromofluoromethane	0.0513	0.0500	103	86-118	
1,2-Dichloroethane-D4	0.0540	0.0500	108	80-120	
Toluene-D8	0.0493	0.0500	99	88-110	

Lab Batch #: 708367

Sample: 501418-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

VOA GC/MS by EPA 624 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0489	0.0500	98	86-115	
Dibromofluoromethane	0.0507	0.0500	101	86-118	
1,2-Dichloroethane-D4	0.0515	0.0500	103	80-120	
Toluene-D8	0.0499	0.0500	100	88-110	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch #: 708447

Sample: 708447-1-BKS

Matrix: Water

Date Analyzed: 11/12/2007

Date Prepared: 11/12/2007

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Alkalinity by EPA 310.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Alkalinity, Total (as CaCO ₃)	6.00	200	174	87	80-120	

Lab Batch #: 708428

Sample: 708428-1-BKS

Matrix: Water

Date Analyzed: 11/09/2007

Date Prepared: 11/09/2007

Analyst: MAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Bromide	ND	5.00	5.02	100	90-110	
Chloride	ND	5.00	5.06	101	90-110	
Fluoride	ND	5.00	5.32	106	90-110	
Nitrate as N	ND	1.13	1.13	100	90-110	
Sulfate	ND	5.00	5.04	101	90-110	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch #: 708384

Sample: 501285-1-BKS

Matrix: Water

Date Analyzed: 11/12/2007

Date Prepared: 11/09/2007

Analyst: MCH

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Metals by EPA 200.8 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Aluminum	ND	0.200	0.317	159	85-115	H
Arsenic	ND	0.050	0.051	102	85-115	
Barium	ND	0.050	0.049	98	85-115	
Boron	ND	0.040	0.035	88	85-115	
Cadmium	ND	0.020	0.020	100	85-115	
Chromium	ND	0.050	0.049	98	85-115	
Cobalt	ND	0.050	0.049	98	85-115	
Copper	ND	0.050	0.048	96	85-115	
Lead	ND	0.050	0.049	98	85-115	
Manganese	ND	0.050	0.050	100	85-115	
Mercury	ND	0.0010	0.0009	90	85-115	
Molybdenum	ND	0.050	0.048	96	85-115	
Nickel	ND	0.050	0.044	88	85-115	
Selenium	ND	0.050	0.051	102	85-115	
Silver	ND	0.020	0.019	95	85-115	
Zinc	ND	0.050	0.050	100	85-115	

Lab Batch #: 708415

Sample: 708415-1-BKS

Matrix: Water

Date Analyzed: 11/13/2007

Date Prepared: 11/13/2007

Analyst: AMB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Total Cyanide by EPA 335.4 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Cyanide, Total	ND	0.200	0.184	92	80-120	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch #: 708367

Sample: 501418-1-BKS

Matrix: Water

Date Analyzed: 11/12/2007

Date Prepared: 11/12/2007

Analyst: WEW

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOA GC/MS by EPA 624 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acrolein	ND	0.500	0.524	105	50-150	
Acrylonitrile	ND	0.500	0.570	114	50-150	
Benzene	ND	0.050	0.052	104	66-142	
Bromodichloromethane	ND	0.050	0.054	108	75-125	
Bromoform	ND	0.050	0.052	104	75-125	
Methyl bromide	ND	0.050	0.048	96	70-130	
Carbon Tetrachloride	ND	0.050	0.053	106	62-125	
Chlorobenzene	ND	0.050	0.051	102	60-133	
Chloroethane	ND	0.050	0.047	94	70-130	
2-Chloroethyl Vinyl Ether	ND	0.050	0.058	116	50-150	
Chloroform	ND	0.050	0.051	102	74-125	
Methyl Chloride	ND	0.050	0.052	104	70-130	
Dibromochloromethane	ND	0.050	0.055	110	73-125	
1,2-Dichlorobenzene	ND	0.050	0.051	102	75-125	
1,3-Dichlorobenzene	ND	0.050	0.053	106	75-125	
1,4-Dichlorobenzene	ND	0.050	0.051	102	75-125	
1,1-Dichloroethane	ND	0.050	0.050	100	72-125	
1,2-Dichloroethane	ND	0.050	0.054	108	68-127	
1,1-Dichloroethene	ND	0.050	0.051	102	59-172	
trans-1,2-dichloroethylene	ND	0.050	0.048	96	75-125	
1,2-Dichloropropane	ND	0.050	0.054	108	74-125	
cis-1,3-Dichloropropene	ND	0.050	0.055	110	74-125	
trans-1,3-dichloropropene	ND	0.050	0.055	110	66-125	
Ethylbenzene	ND	0.050	0.051	102	75-125	
Methylene Chloride	ND	0.050	0.046	92	75-125	
1,1,2,2-Tetrachloroethane	ND	0.050	0.057	114	74-125	
Tetrachloroethylene	ND	0.050	0.048	96	71-125	
Toluene	ND	0.050	0.050	100	59-139	
1,1,1-Trichloroethane	ND	0.050	0.050	100	75-125	
1,1,2-Trichloroethane	ND	0.050	0.051	102	75-127	
Trichloroethylene	ND	0.050	0.050	100	62-137	
Trichlorofluoromethane	ND	0.050	0.051	102	67-125	
o-Xylene	ND	0.050	0.051	102	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch #: 708367

Sample: 501418-1-BKS

Matrix: Water

Date Analyzed: 11/12/2007

Date Prepared: 11/12/2007

Analyst: WEW

Reporting Units: mg/L

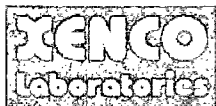
Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOA GC/MS by EPA 624 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
m,p-Xylene	ND	0.100	0.102	102	75-125	
Vinyl Chloride	ND	0.050	0.051	102	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: Permit Analysis

Work Order #: 292672

Analyst: RES

Date Prepared: 11/13/2007

Project ID:

Date Analyzed: 11/13/2007

Lab Batch ID: 708421

Sample: 501435-1-BKS

Batch #: 1

Matrix: Water

Units: ug/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

PAHs by EPA 8310	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Acenaphthene	ND	0.500	0.488	98	0.5	0.460	92	6	38-146	25	
Acenaphthylene	ND	0.500	0.420	84	0.5	0.403	81	4	17-172	25	
Anthracene	ND	0.500	0.476	95	0.5	0.465	93	2	37-146	25	
Benzo(a)anthracene	ND	0.500	0.551	110	0.5	0.525	105	5	52-169	25	
Benzo(a)pyrene	ND	0.500	0.381	76	0.5	0.436	87	13	47-143	25	
Benzo(g,h,i)perylene	ND	0.500	0.571	114	0.5	0.549	110	4	16-210	25	
1-Methylnaphthalene	ND	0.500	0.582	116	0.5	0.544	109	7	70-130	25	
2-Methylnaphthalene	ND	0.500	0.593	119	0.5	0.556	111	6	70-130	25	
Benzo(k)fluoranthene	ND	0.500	0.536	107	0.5	0.515	103	4	27-176	25	
Benzo(b)fluoranthene	ND	0.500	0.511	102	0.5	0.493	99	4	27-176	25	
Chrysene	ND	0.500	0.523	105	0.5	0.500	100	4	72-138	25	
Dibenz(a,h)Anthracene	ND	0.500	0.512	102	0.5	0.494	99	4	60-134	25	
Fluoranthene	ND	0.500	0.500	100	0.5	0.485	97	3	15-152	25	
Fluorene	ND	0.500	0.483	97	0.5	0.459	92	5	31-159	25	
Indeno(1,2,3-c,d)Pyrene	ND	0.500	0.557	111	0.5	0.542	108	3	5-198	25	
Naphthalene	ND	0.500	0.485	97	0.5	0.459	92	6	25-172	25	
Phenanthrene	ND	0.500	0.488	98	0.5	0.482	96	1	46-157	25	
Pyrene	ND	0.500	0.514	103	0.5	0.494	99	4	28-172	25	

Relative Percent Difference RPD = $200 * |(D-F)/(D+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries

Project Name: Permit Analysis

Work Order #: 292672

Analyst: JLA

Lab Batch ID: 708489

Sample: 501474-1-BKS

Date Prepared: 11/12/2007

Batch #: 1

Project ID:

Date Analyzed: 11/13/2007

Matrix: Water

Units: ug/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Pesticides and PCBs by EPA 608	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
PCB-1016	ND	5.00	4.37	87	5	4.24	85	3	54-125	20	
PCB-1260	ND	5.00	4.28	86	5	3.89	78	10	41-126	20	

Analyst: AMB

Date Prepared: 11/15/2007

Date Analyzed: 11/15/2007

Lab Batch ID: 708575

Sample: 708575-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Phenolics Total by EPA 420.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Phenolic	ND	0.400	0.419	105	0.4	ND	0	NC	80-120	20	LF

Relative Percent Difference RPD = $200 \cdot (D-F) / (D+F)$

Blank Spike Recovery [D] = $100 \cdot (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 \cdot (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Permit Analysis

Work Order # : 292672

Project ID:

Lab Batch ID: 708384

QC- Sample ID: 292693-003 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/12/2007

Date Prepared: 11/09/2007

Analyst: MCH

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Metals by EPA 200.8 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Aluminum	0.208	0.200	0.429	111	0.200	0.414	103	7	75-125	25	
Arsenic	0.009	0.050	0.048	78	0.050	0.047	76	3	75-125	25	
Barium	0.137	0.050	0.178	82	0.050	0.173	72	13	75-125	25	X
Boron	0.126	0.020	0.145	95	0.020	0.148	110	15	75-125	25	
Cadmium	ND	0.020	0.015	75	0.020	0.015	75	0	75-125	25	
Chromium	ND	0.050	0.046	92	0.050	0.045	90	2	75-125	25	
Cobalt	ND	0.050	0.045	90	0.050	0.044	88	2	75-125	25	
Copper	ND	0.050	0.040	80	0.050	0.039	78	3	75-125	25	
Lead	ND	0.050	0.046	92	0.050	0.045	90	2	75-125	25	
Manganese	0.406	0.050	0.439	66	0.050	0.424	36	59	75-125	25	XF
Mercury	ND	0.0010	0.0008	80	0.0010	0.0007	70	13	75-125	25	X
Molybdenum	ND	0.050	0.047	94	0.050	0.046	92	2	75-125	25	
Nickel	ND	0.050	0.038	76	0.050	0.037	74	3	75-125	25	X
Selenium	ND	0.050	0.036	72	0.050	0.034	68	6	75-125	25	X
Silver	ND	0.020	0.016	80	0.020	0.016	80	0	75-125	25	
Zinc	ND	0.050	0.037	74	0.050	0.035	70	6	75-125	25	X

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$
Relative Percent Difference $RPD = 200 \cdot (D-G)/(D+G)$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \cdot (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch ID: 708415

QC- Sample ID: 292578-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/13/2007

Date Prepared: 11/13/2007

Analyst: AMB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Cyanide by EPA 335.4 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Cyanide, Total	ND	0.200	0.114	57	0.200	0.109	55	4	80-120	20	X

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$
Relative Percent Difference $RPD = 200 \cdot (D-G)/(D+G)$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \cdot (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: Permit Analysis

Work Order #: 292672

Project ID:

Lab Batch ID: 708367

QC- Sample ID: 292672-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/12/2007

Date Prepared: 11/12/2007

Analyst: WEW

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOA GC/MS by EPA 624 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acrolein	ND	0.500	0.491	98	0.500	0.472	94	4	50-150	25	
Acrylonitrile	ND	0.500	0.484	97	0.500	0.465	93	4	50-150	25	
Benzene	ND	0.050	0.050	100	0.050	0.049	98	2	66-142	21	
Bromodichloromethane	ND	0.050	0.052	104	0.050	0.049	98	6	75-125	20	
Bromoform	ND	0.050	0.046	92	0.050	0.043	86	7	75-125	20	
Methyl bromide	ND	0.050	0.036	72	0.050	0.039	78	8	70-130	20	
Carbon Tetrachloride	ND	0.050	0.053	106	0.050	0.051	102	4	62-125	20	
Chlorobenzene	ND	0.050	0.051	102	0.050	0.049	98	4	60-133	21	
Chloroethane	ND	0.050	0.041	82	0.050	0.042	84	2	70-130	20	
2-Chloroethyl Vinyl Ether	ND	0.050	ND	0	0.050	ND	0	NC	50-150	20	X
Chloroform	ND	0.050	0.051	102	0.050	0.051	102	0	74-125	20	
Methyl Chloride	ND	0.050	0.047	94	0.050	0.052	104	10	70-130	20	
Dibromochloromethane	ND	0.050	0.052	104	0.050	0.049	98	6	73-125	20	
1,2-Dichlorobenzene	ND	0.050	0.052	104	0.050	0.051	102	2	75-125	20	
1,3-Dichlorobenzene	ND	0.050	0.053	106	0.050	0.052	104	2	75-125	20	
1,4-Dichlorobenzene	ND	0.050	0.050	100	0.050	0.050	100	0	75-125	20	
1,1-Dichloroethane	ND	0.050	0.049	98	0.050	0.048	96	2	72-125	20	
1,2-Dichloroethane	ND	0.050	0.050	100	0.050	0.048	96	4	68-127	20	
1,1-Dichloroethene	ND	0.050	0.049	98	0.050	0.047	94	4	59-172	22	
trans-1,2-dichloroethylene	ND	0.050	0.045	90	0.050	0.043	86	5	75-125	20	
1,2-Dichloropropane	ND	0.050	0.052	104	0.050	0.051	102	2	74-125	20	
cis-1,3-Dichloropropene	ND	0.050	0.050	100	0.050	0.049	98	2	74-125	20	
trans-1,3-dichloropropene	ND	0.050	0.050	100	0.050	0.049	98	2	66-125	20	

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$
Relative Percent Difference $RPD = 200 \cdot (D-G)/(D+G)$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \cdot (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: Permit Analysis

Work Order # : 292672

Project ID:

Lab Batch ID: 708367

QC- Sample ID: 292672-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/12/2007

Date Prepared: 11/12/2007

Analyst: WEW

Reporting Units: mg/L

VOA GC/MS by EPA 624 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Ethylbenzene	ND	0.050	0.052	104	0.050	0.049	98	6	75-125	20	
Methylene Chloride	ND	0.050	0.043	86	0.050	0.041	82	5	75-125	35	
1,1,2,2-Tetrachloroethane	ND	0.050	0.054	108	0.050	0.052	104	4	74-125	31	
Tetrachloroethylene	ND	0.050	0.048	96	0.050	0.048	96	0	71-125	20	
Toluene	ND	0.050	0.051	102	0.050	0.050	100	2	59-139	21	
1,1,1-Trichloroethane	ND	0.050	0.048	96	0.050	0.049	98	2	75-125	20	
1,1,2-Trichloroethane	ND	0.050	0.050	100	0.050	0.048	96	4	75-127	20	
Trichloroethylene	ND	0.050	0.047	94	0.050	0.046	92	2	62-137	24	
Trichlorofluoromethane	ND	0.050	0.046	92	0.050	0.047	94	2	67-125	20	
o-Xylene	ND	0.050	0.052	104	0.050	0.051	102	2	75-125	20	
m,p-Xylene	ND	0.100	0.103	103	0.100	0.100	100	3	75-125	20	
Vinyl Chloride	ND	0.050	0.044	88	0.050	0.048	96	9	75-125	20	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference RPD = $200 \times (D-G)/(D+G)$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery

Project Name: Permit Analysis

Work Order #: 292672

Lab Batch #: 708447

Date Analyzed: 11/12/2007

QC- Sample ID: 292672-001 D

Reporting Units: mg/L

Project ID:

Analyst: WRU

Date Prepared: 11/12/2007

Batch #: 1

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Alkalinity by EPA 310.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Alkalinity, Total (as CaCO ₃)	204	200	2	20	

Lab Batch #: 708384

Date Analyzed: 11/12/2007

QC- Sample ID: 292693-003 D

Reporting Units: mg/L

Date Prepared: 11/09/2007

Batch #: 1

Analyst: MCH

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Metals by EPA 200.8	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Aluminum	0.208	0.229	10	25	
Arsenic	0.009	0.009	0	25	
Barium	0.137	0.137	0	25	
Boron	0.126	0.129	2	25	
Cadmium	ND	ND	NC	25	
Chromium	ND	ND	NC	25	
Cobalt	ND	ND	NC	25	
Copper	ND	ND	NC	25	
Lead	ND	ND	NC	25	
Manganese	0.406	0.410	1	25	
Mercury	ND	ND	NC	25	
Molybdenum	ND	ND	NC	25	
Nickel	ND	ND	NC	25	
Selenium	ND	ND	NC	25	
Silver	ND	ND	NC	25	
Zinc	ND	ND	NC	25	

Spike Relative Difference $RPD = 200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.



Sample Duplicate Recovery

Project Name: Permit Analysis

Work Order #: 292672

Lab Batch #: 708332

Date Analyzed: 11/12/2007

QC- Sample ID: 292672-001 D

Reporting Units: mg/L

Date Prepared: 11/12/2007

Batch #: 1

Project ID:

Analyst: LATCOR

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Metals per ICP by SW846 6010B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Calcium	172	163	5	25	
Iron	0.174	0.170	2	25	
Magnesium	45.5	45.3	0	25	
Potassium	5.11	5.40	6	25	
Sodium	21.6	21.6	0	25	

Lab Batch #: 708575

Date Analyzed: 11/15/2007

QC- Sample ID: 292672-001 D

Reporting Units: mg/L

Date Prepared: 11/15/2007

Batch #: 1

Analyst: AMB

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Phenolics Total by EPA 420.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Phenolic	ND	ND	NC	20	

Lab Batch #: 708434

Date Analyzed: 11/12/2007

QC- Sample ID: 292672-001 D

Reporting Units: mg/L

Date Prepared: 11/12/2007

Batch #: 1

Analyst: IRO

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Residue, Filterable (TDS) by EPA 160.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	754	822	9	30	

Lab Batch #: 708432

Date Analyzed: 11/08/2007

QC- Sample ID: 292672-001 D

Reporting Units: us/cm

Date Prepared: 11/08/2007

Batch #: 1

Analyst: IRO

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Specific Conductance by EPA 120.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Conductivity	1090	1150	5	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.



Sample Duplicate Recovery

Project Name: Permit Analysis

Work Order #: 292672

Lab Batch #: 708415

Date Analyzed: 11/13/2007

QC- Sample ID: 292578-001 D

Reporting Units: mg/L

Project ID:

Analyst: AMB

Date Prepared: 11/13/2007

Batch #: 1

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Total Cyanide by EPA 335.4	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Cyanide, Total	ND	ND	NC	20	

Lab Batch #: 708293

Date Analyzed: 11/08/2007

QC- Sample ID: 292672-001 D

Reporting Units: SU

Date Prepared: 11/08/2007

Batch #: 1

Analyst: JLG

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
pH by EPA 150.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
pH	7.63	7.59	1	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

p. 2

961-884-9110

Jordan Laboratories

Nov 21 07 14:36

Jordan Laboratories
A XENCO Laboratories Company

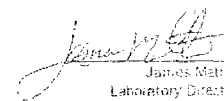
Certificate of Analysis Summary Schlumberger

Project Name: Remed Analysis
Contact: Darwin Thompson
Project Location: Aruba Yard

Date Received in Lab: 11/7/2007 17:00
Report Date: 11/21/2007
Project Manager: Brent Barron II
Analyst: Nicole Zipse

Analysis Requested	Lab ID:	282672-01	282672-02										
	Matr:	2319	2320										
Depth:	Field ID	Wash bay Water	Cement (Lab Off.)										
	Matr:	Water	Water										
Isotopes by EPA 901.1	Sampled:	11/7/2007 11:00	11/7/2007 10:30										
	Extracted:												
Units/CE	Analyzed:	11/15/2007	11/19/2007										
	Units/CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE	pCi/l ± CE
Radium 226		<0.1	0.1	<0.1	0.1								
Radium 228		<0.1	0.1	<0.1	0.1								
Lead 210		<0.1	0.1	<0.1	0.1								
Thorium 230		ND	ND										

CE - counting error
RL - Reporting Limit


James Mathis
Laboratory Director

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Danisha Thompson
Company Name: S. Thompson
Company Address: 107 E. Oakway
City/State/Zip: Antonia, MS 38710
Telephone No: 565-748-1392
Sampler Signature: Danisha Thompson
Fax No: 565-748-1393
e-mail: thompson387@yahoo.com

Project Name: Antonia, MS 38710
Project #:
Project Loc: Antonia, MS 38710
PO #:
Report Format: ☒ Standard ☐ TRAP ☐ NPDCS

(lab use only)
ORDER #: 292672

Lab # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Preservation & # of Containers										Matrix										Analyze For:										RUSH TAT (in Speed) 24 or 72 hr				
						Full Filled	Seal # of Containers	100% 1 L. Poly. I. Bottle	100% 1 L. Poly. II. Bottle	100% 1 L. Poly. III. Bottle	100% 1 L. Poly. IV. Bottle	100% 1 L. Poly. V. Bottle	100% 1 L. Poly. VI. Bottle	100% 1 L. Poly. VII. Bottle	100% 1 L. Poly. VIII. Bottle	100% 1 L. Poly. IX. Bottle	100% 1 L. Poly. X. Bottle	100% 1 L. Poly. XI. Bottle	100% 1 L. Poly. XII. Bottle	100% 1 L. Poly. XIII. Bottle	100% 1 L. Poly. XIV. Bottle	100% 1 L. Poly. XV. Bottle	100% 1 L. Poly. XVI. Bottle	100% 1 L. Poly. XVII. Bottle	100% 1 L. Poly. XVIII. Bottle	100% 1 L. Poly. XIX. Bottle	100% 1 L. Poly. XX. Bottle	100% 1 L. Poly. XXI. Bottle	100% 1 L. Poly. XXII. Bottle	100% 1 L. Poly. XXIII. Bottle	100% 1 L. Poly. XXIV. Bottle	100% 1 L. Poly. XXV. Bottle	100% 1 L. Poly. XXVI. Bottle	100% 1 L. Poly. XXVII. Bottle	100% 1 L. Poly. XXVIII. Bottle	100% 1 L. Poly. XXIX. Bottle	100% 1 L. Poly. XXX. Bottle			
01	WASH STATE			11-2-07	11:00																																			
02	WASH STATE			11-2-07	10:30																																			

Special Instructions: None. Bureau was analyzed by way from

Requested by: Danisha Thompson Date: 11-2-07 Time: 2:00 Retained by: Date: 11-2-07 Time: 1:00

Reassigned by: Date: 11-2-07 Time: 5:00 Received by: Date: 11-2-07 Time: 5:00

Released by: Date: 11-2-07 Time: 5:00 Received by ELOT: Date: 11-2-07 Time: 5:00

Laboratory Comments: Sample Containers Intact
VOCs Free of Headspace? N
Label on container(s) N
Custody seals on container(s) N
Custody seals on container(s) N
Sample Hand Collected N
by Customer? N UPS DHL FedEx Loose Star
Temperature Upon Receipt 5:00 °C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: YELLEN, KIM
Date/ Time: 11/16/12 3:00 PM
Lab ID #: 74124-12
Initials: CVL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	☒ Yes	☐ No	_____ °C
#2	Shipping container in good condition?	☒ Yes	☐ No	
#3	Custody Seals intact on shipping container/ cooler?	☒ Yes	☐ No	(Not Present)
#4	Custody Seals intact on sample bottles/ container?	☒ Yes	☐ No	Not Present
#5	Chain of Custody present?	☒ Yes	☐ No	
#6	Sample instructions complete of Chain of Custody?	☒ Yes	☐ No	
#7	Chain of Custody signed when relinquished/ received?	☒ Yes	☐ No	
#8	Chain of Custody agrees with sample label(s)?	☒ Yes	☐ No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	☒ Yes	☐ No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	☒ Yes	☐ No	
#11	Containers supplied by ELOI?	☒ Yes	☐ No	
#12	Samples in proper container/ bottle?	☒ Yes	☐ No	See Below
#13	Samples properly preserved?	☒ Yes	☐ No	See Below
#14	Sample bottles intact?	☒ Yes	☐ No	
#15	Preservations documented on Chain of Custody?	☒ Yes	☐ No	
#16	Containers documented on Chain of Custody?	☒ Yes	☐ No	
#17	Sufficient sample amount for indicated test(s)?	☒ Yes	☐ No	See Below
#18	All samples received within sufficient hold time?	☒ Yes	☐ No	See Below
#19	Subcontract of sample(s)?	☒ Yes	☐ No	Not Applicable
#20	VOC samples have zero headspace?	☒ Yes	☐ No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken

- Check all that Apply.
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/L TDS CONCENTRATION OR LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Subsection D of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, the existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "methods for chemical analysis of water and waste of the U.S. environmental protection agency," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total undiluted concentrations of the contaminants.

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1) Arsenic (As).....	0.1 mg/l
(2) Barium (Ba).....	1.0 mg/l
(3) Cadmium (Cd).....	0.01 mg/l
(4) Chromium (Cr).....	0.05 mg/l
(5) Cyanide (CN).....	0.2 mg/l
(6) Fluoride (F).....	1.6 mg/l
(7) Lead (Pb).....	0.05 mg/l
(8) Total Mercury (Hg).....	0.002 mg/l
(9) Nitrate (NO ₃ as N).....	10.0 mg/l
(10) Selenium (Se).....	0.05 mg/l
(11) Silver (Ag).....	0.05 mg/l
(12) Uranium (U).....	0.03 mg/l
(13) Radioactivity: Combined Radium-226 & Radium-228.....	30 pCi/l
(14) Benzene.....	0.01 mg/l
(15) Polychlorinated biphenyls (PCBs).....	0.001 mg/l
(16) Toluene.....	0.75 mg/l
(17) Carbon tetrachloride.....	0.01 mg/l
(18) 1,2-dichloroethane (EDC).....	0.01 mg/l
(19) 1,1-dichloroethylene (1,1-DCE).....	0.005 mg/l
(20) 1,1,1,2-tetrachloroethylene (PCE).....	0.02 mg/l
(21) 1,1,2-trichloroethylene (TCE).....	0.1 mg/l
(22) Ethylbenzene.....	0.75 mg/l
(23) total xlenes.....	0.62 mg/l
(24) methylene chloride.....	0.1 mg/l
(25) chloroform.....	0.1 mg/l
(26) 1,1-dichloroethane.....	0.025 mg/l
(27) ethylene dibromide (EDB).....	0.001 mg/l
(28) 1,1,1-trichloroethane.....	0.06 mg/l
(29) 1,1,2-trichloroethane.....	0.01 mg/l
(30) 1,1,2,2-tetrachloroethane.....	0.01 mg/l
(31) vinyl chloride.....	0.001 mg/l
(32) PAHs: total naphthalene plus mono-methyl-naphthalenes.....	0.03 mg/l
(33) benzo a-pyrene.....	0.007 mg/l
B. Other Standards for Domestic Water Supply	
(1) Chloride (Cl).....	250.0 mg/l
(2) Copper (Cu).....	1.0 mg/l

(1) Iron (Fe)	1.0 mg/l
(2) Manganese (Mn)	0.2 mg/l
(3) Phenols	0.005 mg/l
(4) Sulfate (SO ₄)	600.0 mg/l
(5) Total Dissolved Solids (TDS)	1000.0 mg/l
(6) Zinc (Zn)	10.0 mg/l
(7) pH	between 6 and 9
(C) Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.	
(1) Aluminum (Al)	5.0 mg/l
(2) Boron (B)	0.75 mg/l
(3) Cobalt (Co)	0.05 mg/l
(4) Molybdenum (Mo)	1.0 mg/l
(5) Nickel (Ni)	0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Re, 20 NMAC 6.2.HI.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new standard will not become effective until June 1, 2007. For any new water discharges, the uranium standard is effective 9-26-04.]

SAMPLING DOCUMENTATION FORM

This form must be accurately completed for each waste stream being sampled and analyzed for the purposes of waste characterization and assignment of a Texas Solid Waste Code.

Facility name: Artesia WS

Facility address: 507 E Richey

Sample collection date: 11-7-07

Name for waste stream
being sampled:

Wash bay water

Describe the name of the
unit and the exact
sampling location(s):

sampling @ exit of oil skimmer

List and describe the
sampling equipment used
to collect the sample(s):

plastic cup

Describe the sample
collection methods:

sample caught from out flow stream

Describe the sample handling techniques:

Sample Containers: glass & plastic

Sample Preservation: ice

Chain of Custody: yes

Other Information:

Is the sample representative of the waste stream? yes

Darwin Thompson Darwin Thompson
Name of person(s) who collected sample(s) [print & sign]

11-7-07
Date Signed

30 TAC §335.510 Sampling Documentation

- (a) Generators who use analytical data to classify their waste pursuant to §335.509 of this title (relating to Waste Analysis) must maintain documentation of their sampling procedures.
- (b) The sampling documentation must, at a minimum, include the following:
 - (1) dates samples were collected;
 - (2) a description of the site or unit from which the sample is taken and sampling location(s) at the site unit;
 - (3) sample methods and sample equipment utilized; and
 - (4) description of sample handling techniques, including containerization, preservation, and chain of custody.
- (c) Generators shall document all the information listed in subsection (b) of this section, and shall retain copies on-site in accordance with §335.513 of this title (relating to Documentation Required).
- (d) Generators who have existing sampling documentation, which includes the information listed in subsection (b) of this section, do not need to prepare any new documentation specifically for this section.

SAMPLING DOCUMENTATION FORM

This form must be accurately completed for each waste stream being sampled and analyzed for the purposes of waste characterization and assignment of a Texas Solid Waste Code.

Facility name: Antesia US

Facility address: 507 E Richey

Sample collection date: 11-7-07

Name for waste stream
being sampled:

ceement lab / office waste water

Describe the name of the
unit and the exact
sampling location(s):

sewer clean out @ office building

List and describe the
sampling equipment used
to collect the sample(s):

plastic drum sampling pump

Describe the sample
collection methods:

installed pig in sewer line to contain outflow
pump water into sample jars

Describe the sample handling techniques:

Sample Containers: glass & plastic

Sample Preservation: ice

Chain of Custody: yes

Other Information: _____

Is the sample representative of the waste stream? _____

Darwin Thompson Darwin Thompson
Name of person(s) who collected sample(s) (print & sign)

11-7-07
Date Signed

30 TAC §335.510 Sampling Documentation

- (a) Generators who use analytical data to classify their waste pursuant to §335.509 of this title (relating to Waste Analysis) must maintain documentation of their sampling procedures.
- (b) The sampling documentation must, at a minimum, include the following:
 - (1) dates samples were collected;
 - (2) a description of the site or unit from which the sample is taken and sampling location(s) at the site unit;
 - (3) sample methods and sample equipment utilized; and
 - (4) description of sample handling techniques, including containerization, preservation, and chain of custody.
- (c) Generators shall document all the information listed in subsection (b) of this section, and shall retain copies on-site in accordance with §335.513 of this title (relating to Documentation Required).
- (d) Generators who have existing sampling documentation, which includes the information listed in subsection (b) of this section, do not need to prepare any new documentation specifically for this section.

ATTACHMENT 4
SAMPLING
DOCUMENTATION FORM

SAMPLING DOCUMENTATION FORM

This form must be accurately completed for each waste stream being sampled and analyzed for the purposes of waste characterization and assignment of a Texas Solid Waste Code.

Facility name: _____

Facility address: _____

Sample collection date: _____

Name for waste stream
being sampled:

Describe the name of the
unit and the exact
sampling location(s):

List and describe the
sampling equipment used
to collect the sample(s):

Describe the sample
collection methods:

Describe the sample handling techniques:

Sample Containers: _____

Sample Preservation: _____

Chain of Custody: _____

Other Information: _____

Is the sample representative of the waste stream? _____

Name of person(s) who collected sample(s) [print & sign]

Date Signed

30 TAC §335.510 Sampling Documentation

- (a) Generators who use analytical data to classify their waste pursuant to §335.509 of this title (relating to Waste Analysis) must maintain documentation of their sampling procedures.
- (b) The sampling documentation must, at a minimum, include the following:
 - (1) dates samples were collected;
 - (2) a description of the site or unit from which the sample is taken and sampling location(s) at the site unit;
 - (3) sample methods and sample equipment utilized; and
 - (4) description of sample handling techniques, including containerization, preservation, and chain of custody.
- (c) Generators shall document all the information listed in subsection (b) of this section, and shall retain copies on-site in accordance with §335.513 of this title (relating to Documentation Required).
- (d) Generators who have existing sampling documentation, which includes the information listed in subsection (b) of this section, do not need to prepare any new documentation specifically for this section.

ATTACHMENT 5
CERTIFICATION OF
PIPELINE INSPECTION



To: File

On 12/4/03 the sewer process piping from the truck wash bay to the city sewer line at the Schlumberger Well Services facility located at 507 East Richey Ave. in Artesia New Mexico was pressure tested to 3 PSI using a 7' water column for 2 hours. The test is per NMOCD guidelines outlined in Ground water discharge permit GW114. Staff from the Artesia Office of the NMOCD verified the test.

Mae Stillfeldt N.M.O.C.D.
NMOCD

12/11/2003.
Date

Darwin Thompson
Schlumberger

12-4-03
Date

ATTACHMENT 6
WATER TABLE
MEASUREMENTS AND ANALYSIS

**Table 1 - Static Water Elevation Data, Schlumberger Oilfield Services Facility
Artesia, New Mexico**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-1	01/23/91	30.00	Protective Casing	100.56	17.41	83.15	
	01/16/07				10.19	90.37	0.72
	04/17/07				9.27	91.29	0.92
	07/18/07				10.30	90.26	-1.03
	10/17/07				10.55	90.01	-0.25
MW-2	01/23/91	30.00	Protective Casing	99.56	16.95	82.61	
	01/16/07				9.44	90.12	0.68
	04/17/07				8.22	91.34	1.22
	07/18/07				9.57	89.99	-1.35
	10/17/07				9.69	89.87	-0.12
MW-3	01/23/91	30.00	Protective Casing	98.33	17.28	81.05	
	07/19/01				11.22	87.11	-2.00
MW-4	01/23/91	50.00	Protective Casing	103.18	20.17	83.01	
	01/16/07				9.27	90.44	0.70
	04/17/07				8.19	91.52	1.08
	07/18/07				9.47	90.24	-1.28
	10/17/07				9.58	90.13	-0.11
MW-5	01/23/91	30.00	Protective Casing	99.87	17.20	82.67	

**Table 1 - Static Water Elevation Data, Schlumberger Oilfield Services Facility
Artesia, New Mexico**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
	01/16/07				9.72	89.78	0.76
	04/17/07				8.62	90.88	1.10
	07/18/07				9.88	89.62	-1.26
	10/17/07				10.04	89.46	-0.16
MW-6	01/23/91	35.00	Protective Casing	100.84	19.59	81.25	
	01/16/07				13.50	87.34	0.86
	04/17/07				12.27	88.57	1.23
	07/17/07				13.71	87.13	-1.44
	10/17/07				14.04	86.80	-0.33
MW-7	01/23/91	35.00	Protective Casing	100.23	19.01	81.22	
	01/16/07				13.68	86.55	0.88
	04/17/07				12.69	87.54	0.99
	07/17/07				13.96	86.27	-1.27
	10/17/07				14.39	85.84	-0.43

**Table 1 - Static Water Elevation Data, Schlumberger Oilfield Services Facility
Artesia, New Mexico**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-8	01/23/91	35.00	Protective Casing	101.47	20.16	81.31	
	01/16/07				15.03	86.44	0.89
	04/17/07				14.12	87.35	0.91
	07/17/07				15.33	86.14	-1.21
	10/17/07				15.79	85.68	-0.46
MW-9	01/26/91	30.00	Protective Casing	102.18	20.08	82.10	
	01/16/07				11.36	87.97	0.82
	04/17/07				10.48	88.85	0.88
	07/18/07				11.58	87.75	-1.10
	10/17/07				11.91	87.42	-0.33
MW-10	01/26/91	30.00	Protective Casing	101.34	19.68	81.66	
	01/16/07				11.78	88.06	1.11
	04/17/07				11.17	88.67	0.61
	07/18/07				12.89	86.95	-1.72
	10/17/07				12.76	87.08	0.13
MW-11	01/26/91	30.00	Protective Casing	100.60	19.27	81.33	
	01/16/07				11.53	86.67	0.86
	04/17/07				10.20	88.00	1.33
	07/17/07				11.08	87.12	-0.88
	10/17/07				12.22	85.98	-1.14
MW-12	01/26/91	34.00	Protective Casing	100.69	19.24	81.45	
	01/16/07				11.20	87.29	0.83
	04/17/07				10.57	87.92	0.63
	07/18/07				11.52	86.97	-0.95
	10/17/07				11.82	86.67	-0.30
MW-13	09/13/91	45.00	Protective Casing	99.25	15.10	84.15	
	01/16/07				10.16	89.09	0.81
	04/17/07				8.98	90.27	1.18
	07/18/07				10.31	88.94	-1.33
	10/17/07				10.47	88.78	-0.16
MW-14	09/13/91	35.00	Protective Casing	98.74	14.60	84.14	
	11/21/91				13.61	85.13	0.99
	01/16/07				9.95	88.79	0.75
	04/17/07				8.70	90.04	1.25
	07/18/07				10.18	88.56	-1.48
	10/17/07				10.30	88.44	-0.12
MW-15	09/13/91	34.00	Protective Casing	100.05	16.30	83.75	
	01/16/07				11.11	88.58	0.76
	04/17/07				10.11	89.58	1.00
	07/18/07				11.28	88.41	-1.17
	10/17/07				11.52	88.17	-0.24
MW-17D	04/02/95	19.00	Protective Casing	101.29	16.80	84.49	
	01/16/07				11.17	87.57	0.85
	04/17/07				10.14	88.60	1.03
	07/18/07				11.50	87.24	-1.36
	10/17/07				11.79	86.95	-0.29
MW-17A	04/02/95	26.00	Protective Casing	100.57	16.05	84.52	
	01/16/07				11.00	87.29	0.85
	04/17/07				9.95	88.34	1.05
	07/18/07				11.30	86.99	-1.35
	10/17/07				11.61	86.68	-0.31
MW-17B	04/02/95	34.00	Protective Casing	101.28	16.79	84.49	
	01/16/07				11.31	87.23	0.87
	04/17/07				10.28	88.26	1.03
	07/18/07				11.67	86.87	-1.39
	10/17/07				11.95	86.59	-0.28
MW-17C	04/02/95	61.00	Protective Casing	101.33	16.93	84.40	
	01/16/07				11.21	87.32	0.91
	04/17/07				10.19	88.34	1.02
	07/18/07				11.57	86.96	-1.38
	10/17/07				11.87	86.66	-0.30

**Table 1 - Static Water Elevation Data, Schlumberger Oilfield Services Facility
Artesia, New Mexico**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-18	04/02/95	28.00	Protective Casing	98.72	14.77	83.95	
	01/16/07				12.85	85.87	0.86
	04/17/07				11.96	86.76	0.89
	07/17/07				13.18	85.54	-1.22
	10/17/07				13.63	85.09	-0.45
MW-19	04/02/95	28.00	Protective Casing	99.08	14.86	84.22	
	01/16/07				12.36	86.72	0.93
	04/17/07				11.28	87.80	1.08
	07/17/07				12.64	86.44	-1.36
	10/17/07				13.00	86.08	-0.36
MW-20	11/22/96	28.00	Protective Casing	101.09	16.28	84.81	
	01/16/07				16.08	85.01	0.89
	04/17/07				15.39	85.70	0.69
	07/17/07				16.68	84.41	-1.29
	10/17/07				17.19	83.90	-0.51
MW-21	11/22/96	25.00	Protective Casing	98.88	14.36	84.52	
	01/16/07				14.52	84.37	0.70
	04/17/07				13.78	85.11	0.74
	07/17/07				14.94	83.95	-1.16
	10/17/07				15.42	83.47	-0.48
MW-22	11/22/96	24.50	Protective Casing	97.16	12.88	84.28	
	01/16/07				13.32	83.82	0.40
	04/17/07				12.39	84.75	0.93
	07/17/07				13.25	83.89	-0.86
	10/17/07				13.61	83.53	-0.36
MW-23	11/22/96	25.00	Protective Casing	97.33	12.72	84.61	
	01/16/07				11.43	85.87	1.25
	04/17/07				10.77	86.53	0.66
	07/17/07				12.06	85.24	-1.29
	10/17/07				12.16	85.14	-0.10
MW-24	11/22/96	27.00	Protective Casing	103.42	17.91	85.51	
	01/16/07				16.88	86.53	0.88
	04/17/07				16.37	87.04	0.51
	07/17/07				17.28	86.13	-0.91
	10/17/07				17.83	85.58	-0.55
MW-25	04/08/97	25.00	Protective Casing	97.64	14.23	83.41	-
	01/16/07				14.44	83.20	0.23
	04/17/07				13.52	84.12	0.92
	07/17/07				14.23	83.41	-0.71
	10/17/07				14.65	82.99	-0.42
MW-26	04/08/97	25.00	Protective Casing	96.11	13.06	83.05	-
	01/16/07				13.44	82.67	-0.11
	04/17/07				12.42	83.69	1.02
	07/17/07				12.79	83.32	-0.37
	10/17/07				13.17	82.94	-0.38
MW-27	04/08/97	25.00	Protective Casing	96.17	13.06	83.11	-
	01/16/07				13.14	83.03	-0.29
	04/17/07				11.94	84.23	1.20
	07/17/07				12.22	83.95	-0.28
	10/17/07				12.48	83.69	-0.26
MW-28	07/17/98	25.00	Protective Casing	97.93	14.32	83.61	-
	01/16/07				15.80	82.13	0.23
	04/17/07				15.10	82.83	0.70
	07/17/07				15.92	82.01	-0.82
	10/17/07				16.52	81.41	-0.60
MW-29	07/17/98	25.00	Protective Casing	97.04	14.07	82.97	-
	01/16/07				15.98	81.06	-0.11
	04/17/07				15.19	81.85	0.79
	07/17/07				15.76	81.28	-0.57
	10/17/07				16.24	80.80	-0.48

**Table 1 - Static Water Elevation Data, Schlumberger Oilfield Services Facility
Artesia, New Mexico**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-30	07/17/98	25.00	Protective Casing	96.58	12.68	83.90	-

**Table 1 - Static Water Elevation Data, Schlumberger Oilfield Services Facility
Artesia, New Mexico**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
	01/16/07				14.56	82.02	-0.13
	04/17/07				13.63	82.95	0.93
	07/17/07				14.04	82.54	-0.41
	10/17/07				14.52	82.06	-0.48

NOTES:

NM = not measured

* = measured from a temporary benchmark of arbitrary elevation = 100.00 feet.

Benchmark is located on the concrete right up against the east shop wall,
at the northeast corner of the shop.

** = water level measurement may be in error

TABLE 2.

RESULTS FROM LABORATORY ANALYSES OF GROUND-WATER SAMPLES,
MAJOR CATIONS AND ANIONS (DISSOLVED),
DOWELL, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	MAJOR CATIONS				MAJOR ANIONS			
		CALCIUM (mg/L)	SODIUM (mg/L)	POTASSIUM (mg/L)	MAGNESIUM (mg/L)	CARBONATE (mg/L)	BICARBONATE (mg/L)	SULFATE (mg/L)	CHLORIDE (mg/L)
MW-1	01/10/96	455	91.7	1.1	241	ND(2)	248	1700	157
MW-9	11/16/95	201	237	0.68 J	329	ND(10)	592	844	1260
	01/10/96	545	217	ND(1)	336	ND(4)	606	786	1250
	04/13/96	467	239	ND(1)	312	ND(4)	540	887	1050
	07/22/96	508	236	ND(1)	328	ND(5)	626	751	1520
MW-10	11/16/95	122	215	1.25	246	ND(2)	190	2170	208
	01/10/96	548	204	1.15	253	ND(2)	187	2200	192
	04/13/96	506	215	1.01	237	ND(2)	195	2120	201
	07/22/96	482	199	1.01	234	ND(2)	190	2310	227
MW-15	11/16/95	93	132	0.48 J	241	ND(4)	422	1330	286
	01/10/96	407	122	0.38 J	252	ND(4)	443	1450	344
	04/13/96	355	122	ND(1)	222	ND(4)	443	1200	210
	07/21/96	335	114	ND(1)	215	ND(5)	452	1330	270
MW-17A	07/22/96	581	526	ND(1)	281	ND(2)	354	2410	955
MW-17B	07/22/96	570	397	1.39	354	ND(2)	256	2730	800
MW-17C	07/22/96	1390	448	2.51	640	ND(5)	420	916	4810
MW-17D	07/22/96	593	506	7.57	219	ND(2)	375	2110	877

Notes:

mg/L = milligrams per liter (equivalent to parts per million)

ND(2) = ion not detected at concentration above method detection limit in parentheses

J = ion detected at concentration above instrument detection limit but below method detection limit

ATTACHMENT 7
SPILL PREVENTION
CONTROL AND COUNTERMEASURE
PLAN

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

Schlumberger

ARTESIA, NEW MEXICO

**ISSUED: December 21, 2004
Updated October 1, 2007**

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ATTACHMENTS

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SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN AND RCRA CONTINGENCY PLAN

1.0 INTRODUCTION

The management and personnel of Schlumberger at the Artesia, New Mexico location realize and acknowledge the importance of preventing oil and/or hazardous substances from being spilled into the navigable waters of the United States and preventing harmful releases of oil and/or hazardous substances 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; and
- 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 applicable federal, state, and local regulations.

To handle a spill response effectively, this SPCC/RCRA Contingency 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 Contingency Plan was developed in accordance with the requirements of 40 CFR Part 112 and incorporates hazardous waste management provisions that are sufficient to comply with the requirements of 40 CFR 265 Subpart D – *Contingency Plan and Emergency Procedures* as applicable to Large Quantity Generator/Small Quantity Generators (LQGs/SQGs) of hazardous waste with less than 90-day storage. The facility is currently classified as a Conditionally Exempt Small Quantity Generator and as such is exempt from the reporting and recordkeeping requirements detailed in 40 CFR 265 Subpart D. A complete copy of this document must be maintained on site and be made available to the EPA or other regulatory agencies during normal working hours. As documented in Attachment 12, it has been determined that the Substantial Harm Criteria of 40 CFR 112.20(a)(20) does not apply to this facility. Therefore, a Facility Response Plan in accordance with 40 CFR 112.20 has not been prepared for this facility.

1.1 General Applicability and Requirements

1.1.1 SPCC

The SPCC planning requirements of 40 CFR 112 apply to any owner or operator of a non-transportation-related onshore or offshore facility engaged in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to its location, could reasonably be expected to discharge oil in quantities that may be harmful, as defined in 40 CFR 110, into or upon the navigable waters of the United States or adjoining shorelines [40 CFR 112.1(b)].

Any facility that has an underground storage capacity of oil greater than 42,000 gallons [40 CFR 112.1(d)(2)(i)] or the aggregated aboveground storage capacity of 1,320 gallons or greater (only containers of oil with a capacity of 55 gallons or greater are counted) [40 CFR 112.1(d)(2)(ii)], must comply with the provisions as outlined in 40 CFR 112 Subparts A, B, and C which establish requirements for the preparation and implementation of SPCC plans. SPCC plans are designed to complement existing laws, regulations, rules, standards, policies, and procedures pertaining to safety standards, fire prevention, and pollution prevention rules.

1.1.2 RCRA Contingency Plan

The Artesia facility is currently classified as a Conditionally Exempt Small Quantity Generator (CESQG); however, if classification were to change to Large Quantity Generator the following regulations would be applicable.

A Large Quantity Generator of hazardous waste may accumulate such waste on site for 90 days or less without a permit or without having interim status, provided that certain requirements are met [40 CFR 262.34]. One of those requirements is that a Contingency Plan be prepared in order to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water [40 CFR 265 Subpart D].

The provisions of the Contingency Plan must be carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.

1.2 Conformance with 40 CFR 112

The SPCC portion of this Plan has been developed to address the regulatory requirements of 40 CFR 112.1-112.8 as applicable to non-transportation-related onshore facilities (excluding onshore oil production facilities) for both petroleum and non-petroleum oils, except animal fats, oils, greases, fish and marine mammal oils, and vegetable oils. As required by 40 CFR 112, Attachment 11 is a cross reference to the locations of the requirements of 40 CFR 112.

As identified in 40 CFR 112.7(a)(2), the SPCC Plan may deviate from the requirements found in 40 CFR 112.7 paragraphs (g), (h)(2), (h)(3), and (i) and/or the requirements found in 40 CFR 112 Subparts B and C, except for the secondary containment requirements of:

- 40 CFR 112.7 paragraphs (c) and (h)(1); and
- 40 CFR 112.8(c)(2) and (c)(11).

This Plan does deviate from the SPCC requirements referenced above.

This Plan has been prepared and certified based upon oil and chemical capacity at the site on July 9, 2004, and does not address implementation of any additional facilities,

procedures, methods, or equipment not yet fully operational. Certification is contingent upon the implementation of the following:

Deviation of Section 3.2.4 Secondary Containment System. The Artesia facility's 840-gallon oil water separator within storage area A7 does not currently meet secondary containment. All other listed containment areas meet the required secondary containment.

This Plan has been prepared and certified provided that Schlumberger corrects the deficiencies identified in the Plan before August 18, 2006.

The 840-gallon oil water separator within storage area A7 does not meet secondary containment. Currently, the oil water separator is stored outside in a steel containment structure. The required height of secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 3.32 feet. The current secondary containment is 2.33 feet high, which is currently not sufficient to completely contain the volume of the largest tank.

1.3 Conformance with Other Requirements

As of the preparation of this report the New Mexico Environmental Department does not have oil spill contingency regulations. Therefore only the Federal regulations apply in the state of New Mexico. A current copy of the Federal regulations can be retrieved from the following website: <http://www.epa.gov/oilspill>.

1.4 Management Approval

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

Ismael DeLaRosa
Facility Manager

Date

1.5 Engineering Certification

By means of this Professional Engineer Certification, I hereby attest to the following:

- I am familiar with the requirements of 40 CFR 112 and have verified that this Plan has been prepared in accordance with the requirements of this regulation;
- I or my agent have visited and examined the facility;
- I have verified that this Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards;
- I have verified that the required inspection and testing procedures have been established as described in Section 3.4 of this Plan; and
- I have verified that the Plan is adequate for the facility provided that Schlumberger corrects the deficiencies identified in the Plan before August 18, 2006.

Printed Name of Registered Professional Engineer

(Seal)

Signature of Registered Professional Engineer

Date: _____

Registration No.: _____

State: _____

2.0 GENERAL FACILITY INFORMATION

2.1 Brief Facility Description

Schlumberger in Artesia, New Mexico is an oilfield cementing, acidizing, and fracturing, service company for the oil and gas industry. It is an onshore non-transportation-related facility, storing bulk cement and bulk hazardous liquids in tanks as summarized in Attachment 4. In addition, miscellaneous hazardous liquids are stored on site in containers (e.g., drums, totes, and/or pails). Oil-containing (reservoirs) equipment may be utilized on site; a summary of which can also be found in Attachment 4. Mobile or portable oil storage tanks are positioned or located so as to prevent spills from reaching navigable waters. Solid chemicals are stored in sacks at the facility.

This facility is a Conditionally Exempt Small Quantity Generator of hazardous waste and waste is disposed of off site. The hazardous waste is 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. Oil and/or hazardous substances are stored in tanks and/or containers. Miscellaneous chemicals are normally stored in a fenced area. Appropriate warning signs are posted at the entrances to each of the chemical storage areas. Discharge of processed effluent occurs from the oil/water separator, which discharges to a Publicly Owned Treatment Works (POTW).

The Artesia facility is located at 507 East Richey. A location map (Attachment 1) and a facility plot plan (Attachment 2) depicting where the oil and/or hazardous substances storage tanks, containers, and handling areas/equipment are located, as well as associated secondary containment systems, are included herein for reference.

2.2 Designated Contact

Darwin Thompson, Facility Manager is the Primary On-Site Emergency Coordinator responsible for oil and/or hazardous substances spill prevention and response coordination at the Artesia facility. Correspondence should be addressed to:

Schlumberger
PO Box 300
Artesia, New Mexico 88210
505-748-1392

Schlumberger will utilize trained personnel from this facility and outside contractors (see Attachment 6) as well as local police and fire departments to respond to emergency situations. If cleanup is required, then Schlumberger will rely on RCRA and Occupational Safety and Health Administration (OSHA) trained personnel, within either the company or contractors, or both, to handle this.

2.3 Potential Spill Sources

The term "discharge" includes, but is not limited to, any unauthorized spilling, leaking, pumping, pouring, releasing, emitting, emptying, or dumping of oil [40 CFR 112.2] and/or

hazardous substances in a harmful quantity and for ease of reference are all referred to in this Plan as “spills”.

Any aboveground storage tank or container, any completely buried tank, any container used for standby, seasonal, temporary, or not otherwise “permanently closed” storage, any bunkered tank or partially buried tank, any mobile or portable tank or container utilized for storage of oil and/or hazardous substances as well as oil-containing equipment (reservoirs) are considered potential spill sources and for ease of reference are all referred to in this Plan as “containers”.

The term “bulk oil storage containers” as used in this Plan includes all oil storage except oil-filled electrical operating or manufacturing equipment.

2.3.1 Material Storage and Oil-Containing Equipment

On-site oil and/or hazardous substance storage/handling areas and the associated secondary containment systems are listed in Attachment 4. Available construction and operations data for these areas include the following:

- *Container* storage area identification;
- *Container* identification;
- Standard of construction;
- Type of substance stored;
- Maximum storage capacity;
- Type of worst case failure;
- Direction and rate of spill flow in the case of an uncontained spill; and
- Secondary containment capacity.

The following types of equipment and/or operational procedure failure may cause a spill:

- Leak;
- Overfill; and
- Rupture.

2.3.2 Tank Truck Loading/Unloading Activities

The facility does not meet the definition for tank truck loading and unloading as defined under the modified rule dated May 13, 2004.

Attachment 4 includes a table that provides a summary of the tank truck loading and unloading locations, including the following:

- Loading/unloading location identification;
- Type of hazardous substance transferred;
- Capacity of largest compartment of loaded/unloaded vehicles;
- Type of worst case failure;
- Direction and rate of spill flow in the case of an uncontained spill; and
- Secondary containment capacity.

The following types of loading/unloading equipment and/or operational procedure failure may cause a spill:

- Transfer connection leaks;
- Transfer hose or piping failure;
- Overfilling a loading vessel;
- Rupture of a loading vessel; and
- Leaking loading/unloading appurtenances.

There are no tank truck unloading facilities at this site regulated by SPCC. The only loading/unloading area is the HCI loading/unloading area (A8). If SPCC regulated tank truck loading/unloading facilities were located at Artesia such operations would be conducted in accordance with appropriate U.S. Department of Transportation provisions (49 CFR 177.834) as follows.

- (1) Prior to commencement of loading or unloading oil from a cargo tank:
 - (a) by the way of a physical barrier system (per 112.7(h)(2)), the cargo tank wheels shall be securely chocked to prevent vehicular departures before complete disconnect of lines,
 - (b) if the vehicle cab remains attached, the vehicle handbrake shall be securely set, and
 - (c) determine if sufficient space is available in storage tank to receive contents of tank truck.
- (2) A cargo tank must be attended at all times during the loading or unloading transfer process. The attendee shall be the truck driver or a Schlumberger employee familiar with cargo tank loading and unloading procedures.
- (3) During the loading or unloading transfer process, the cargo tank attendee must:
 - (a) be alert,
 - (b) have an unobstructed view of the cargo tank,
 - (c) be within 25 feet of the cargo tank, and
 - (d) be familiar with procedures to be followed in an emergency.
- (4) Upon completion of the loading or unloading transfer process, the cargo tank attendee shall ensure that:
 - (a) unloading line removed from tank trailer,
 - (b) all manhole closures on the truck are closed and secured, and

- (c) all valves and other closures in liquid discharge systems are closed and free of leaks.
- (5) Prior to departure of any tank truck, the lowest drain and all outlets of such vehicle shall be closely examined for leakage; and, if necessary, tightened, adjusted, or replaced to prevent liquid spillage while in transit.

3.0 SPILL PREVENTION AND CONTROL MEASURES

The following spill prevention and control measures have been implemented at this facility to reduce the possibility of a spill of oil, hazardous waste, or hazardous substances and to minimize their impact on the environment should a spill occur.

3.1 Security

3.1.1 Fencing and Guard System

The SPCC regulated “facility” is fully fenced with entrance gates locked and/or guarded when the facility is not in operation or is unattended [40 CFR 112.7(g)(1)]. The word “facility”, as defined by 40 CFR 112.2 means any onshore or offshore building, structure, installation, equipment, pipe, or pipeline used in any oil operations, including, but not limited to, well drilling, production, refining, storage, gathering, transfer, distribution, and waste treatment.

3.1.2 Valves

Drain valves and master flow valves, as well as any other valves that could permit direct outward flow of a container’s contents or other potential environmental pollutant to the surface, are secured in the closed position when in non-operating or standby status. [40 CFR 112.7(g)(2)]

3.1.3 Pumps

If applicable, the starter control on each oil pump is locked in the “off” position and is accessible only to authorized personnel when the pump is in a non-operating or standby status. The starter control for each oil pump has a sign stating “to be used by authorized personnel only” [40 CFR 112.7(g)(3)].

3.1.4 Loading/Unloading Connections

If applicable, loading and unloading connections of oil pipelines and facility piping that is not in service or when in standby service for an extended time are securely capped or blank-flanged, as appropriate [40 CFR 112.7(g)(4)].

3.1.5 Lighting

Facility lighting is sufficient to detect oil and/or hazardous substance spills during hours of darkness and to prevent such spills through acts of vandalism [40 CFR 112.7(g)(5)].

3.1.6 Warning Signs

If applicable, warning signs are posted at the facility entrance gates cautioning drivers to be aware and avoid endangerment of aboveground piping in oil and/or hazardous substance transfer operations [40 CFR 112.8(d)(5)]. Warning signs are also located at each oil related loading/unloading “rack” to prevent vehicles from departing before complete disconnection of flexible and/or fixed transfer lines [40 CFR 112.7(h)(2)].

3.2 Spill Control

3.2.1 Material Storage and Oil-Containing Equipment

The facility utilizes *containers* for storage of oil and/or hazardous substances that are designed and constructed in accordance with good engineering practices and in accordance with accepted industry practices. No *container* is used for the storage of oil and/or hazardous substance until it is determined that the stored material and conditions of storage are compatible with the materials of construction. *Containers* currently in service are compatible with the material that is being stored as well as conditions of storage. Construction design, as applicable to each storage *container* utilized at the facility, is identified in Attachment 4.

Bulk Oil Storage

In an effort to control discharges from bulk oil storage containers, each installation is provided with at least one of the following devices:

- High liquid level alarm with an audible or visual signal at a constantly attended operation station;
- High liquid level pump cutoff devices set to stop flow at a predetermined container content level;
- A visual level indicator that can be seen during the filling process;
- Direct audible or code signal communication between the container gauger and the pumping station; or
- A fast response system such as digital computers, telepulse, or direct vision gauges for determining the liquid level of each tank. (If this alternative is used, a person must be present to monitor gauges and the overall filling.)

Cathodic Protection

No completely buried, partially buried, or bunkered metallic tanks are located at the Artesia facility.

Internal Heating Coils

The facility DOES NOT operate internal heating coils.

3.2.2 Onshore Loading/Unloading Activities and Transfer Operations

Spill control measures implemented to address on site loading/unloading and transfer activities include the following:

- All loading/unloading activities are supervised by a Schlumberger employee;
- An interlocking warning light, physical barrier system, or warning signs are provided in loading/unloading “racks” to prevent vehicular departure before complete disconnect

of flexible or fixed transfer lines;

- Prior to filling and departure of any oil containing tank truck at a loading/unloading “rack”, the lowermost drain and all outlets of such vehicles is closely examined for leakage and, if necessary, tightened, adjusted, or replaced to prevent liquid leakage while in transit [40 CFR 112.7(h)(3)];
- Loading and unloading connects of oil pipelines and facility piping that is not in service or when in standby service for an extended time (such as 90 days or more) are securely capped or blank-flanged, as appropriate [40 CFR 112.7(g)(4)];
- The starter control on each oil pump is locked in the “off” position and is accessible only to authorized personnel when the pump is in a non-operating or standby status [40 CFR 112.7(g)(3)];
- The starter control on each oil pump has a warning sign “to be operated by authorized personnel only”.
- As applicable, all terminal connections at the transfer point are marked as to origin and are capped or blank-flanged when piping is not in service or is in standby service for an extended time;
- *Container* system installations have been fail-safe engineered to avoid spills by incorporating 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; and
- All pipe supports have been designed to minimize abrasion and corrosion, to allow for expansion and contraction, and to adequately support thrust loadings at bends.

3.2.3 Facility Drainage

In general, surface water run-off at the facility enters the Eagle Creek as shown on the Location Map found in Attachment 1. Discharge points for the facility are indicated on the Facility Plot Plan found in Attachment 2.

The facility’s drainage systems from undiked areas with a potential for a discharge (such as where piping is located outside containment walls or where tank truck discharges may occur outside the loading area) IS NOT designed to flow into ponds, lagoons, or catchment basins designed to retain oil and/or hazardous material or return it to the facility. There are no catchment basins in areas of the facility subject to periodic flooding [40 CFR 112.8(b)(3)].

The Artesia facility has two surface water runoff outfalls located along the northeast and southern portion of the property. Currently, booms are placed in front of the outfalls to limit a discharge, thus, a deviation of the facility drainage does not exist at the Artesia facility.

3.2.4 Secondary Containment Systems

Attachment 4 summarizes the on-site oil, wastes, and hazardous substance storage *containers* and handling areas as well as associated secondary containment capacities. The following information is included there:

- Identification of the largest contained *container*;
- Storage capacity of the largest *container*;
- Type of worst case failure;
- Type of containment system;
- Total containment volume available;
- Inches of freeboard available for accumulation of precipitation; and
- Direction and rate of spill flow in case of an uncontained spill.

All containment systems, including walls and floors, are sufficiently impervious and have been constructed to contain discharged oil and/or hazardous substances within the associated storage area so that no oil and/or hazardous substance escapes the containment system before cleanup occurs. The Schlumberger Environmental Standard for outdoor chemical storage states that adequate secondary containment must be provided for at least 110% of the largest container within the area. In addition, annual integrity inspections are required for these secondary containment systems per NAM Environmental Procedure E-011.

The Artesia facility's 840-gallon oil water separator located in storage area A7 does not currently meet secondary containment. All other listed tanks meet the required secondary containment. Refer to section 1.2.

Impracticability Determination

Schlumberger personnel have determined that the spill prevention containment structures or equipment required by 40 CFR 112.7(c), 112.7(h)(1), 112.8(c)(2), and/or 112.8(c)(11) are PRACTICABLE. If Schlumberger had determined that the spill prevention containment structures or equipment required by 40 CFR 112.7(c), 112.7(h)(1), 112.8(c)(2), and/or 112.8(c)(11) were impracticable, the following requirements (40 CFR 112.7(d)) would need to be addressed.

- (1) preparing an oil spill contingency plan by following the provisions of 40 CFR 109 (see Section 4.5 of this Plan);
- (2) obtaining a written commitment of manpower, equipment, and materials to expeditiously control and remove any quantity of oil spill that may be harmful (see Attachment 6); and
- (3) periodic integrity and leak testing of the valves and piping associated with bulk oil storage *containers* has been added to facility procedures (see Section 3.4.2 of this Plan).

Bulk Oil Storage

This facility has installed secondary containment systems (i.e., berms, dikes, collection pans, etc.) to control and contain accidental spills in bulk oil storage areas. The containment volume is designed to retain at least 100% of the largest *container* within the contained area and allow for sufficient freeboard to contain precipitation (see Attachment 4 for details) [40 CFR 112.8(c)] taking into account displacement of other vessels, if present. Currently, the 840-gallon oil water separator is the only tank that does not meet the required secondary containment. This Plan is being completed with the contingency that Schlumberger corrects the deficiencies identified in the Plan before August 18, 2006.

Any mobile or portable oil storage containers located on site are positioned such as to prevent an uncontained spill of oil. A secondary means of containment, such as a dike or catchment basin, sufficient to contain the capacity of the largest single compartment or container with sufficient freeboard to contain precipitation would also be provided [40 CFR 112.8(c)(11)].

Onshore Loading/Unloading Activities

Based on EPA interpretation, this facility does not meet the definition of "Loading/Unloading rack". The Artesia facility does not currently operate or perform, as defined by the EPA, an SPCC regulated loading/unloading rack or activity.

Should the facility acquire or develop such facilities and are determined to be regulated by SPCC the following procedures will be implemented.

Loading/Unloading "Racks"

Facility tank truck loading/unloading "racks" drain into a catchment basins or treatment facilities designed to handle discharges or are provided with a quick drainage system. These secondary containment systems are capable of holding at least the maximum capacity of any single compartment of an oil containing tank truck loaded/unloaded at the facility (see Attachment 4 for details) [40 CFR 112.7(h)].

Loading/Unloading Connection Areas

Facility tank truck loading/unloading connection areas are provided with appropriate containment and/or diversionary structures/equipment to prevent an oil discharge (see Attachment 4 for details) [40 CFR 112.7(c)].

Management of Accumulated Liquids

Removal of accumulated liquids inside the containment systems can be accomplished by using a portable pump or vacuum truck. Removal requires approval from the facility supervisor. Accumulated stormwater that is contaminated must be managed appropriately for potential reuse, treatment, or disposal.

Under no circumstances may stormwater within acid containment systems be discharged to the ground surface unless a formal exemption request has been made to, and approved by NAM Environmental. In order to receive an exemption from these procedures, facilities may submit an exemption request within Quest along with detailed operating and recordkeeping procedures that will be implemented at the facility to document that no contaminated discharges will result from the deviation.

Before discharging non-contaminated accumulated stormwater onto the ground surface, an appropriate supervisor must ensure that the water is not contaminated. This can be done by conducting the following procedures:

- (1) Conduct visual inspection of the quality of the liquid to be drained for its clarity and presence of color, odor, floating/suspended solids, foam, oil sheen, and any other obvious pollutant indicators;
- (2) Record observations on a copy of the inspection form provided in Attachment 13;
- (3) If no pollutants are observed in the collected liquid, the on-site authorized supervisor may authorize the discharge by signing the completed inspection form;
- (4) Maintain all records related to the discharges of non-contaminated stormwater from secondary containment systems in Attachment 14 of this Plan for at least three (3) years.

3.2.5 Effluent Treatment Facility

Oil contaminated facility drainage waters (i.e.: stormwater or containment system drainage) are treated in a treatment unit and pump transfer is needed, at least one pump is installed permanently [40 CFR 112.8(b)(5)]. The Artesia facility treats wash rack water with the oil water separator located in area A7.

3.3 Hazardous Waste Handling and Storage Requirements

Hazardous waste generator status is determined on a calendar month basis. The Artesia facility is currently classified as a Conditionally Exempt Small Quantity Generator (CESQG). The classifications for hazardous waste generators are presented below.

A CESQG of hazardous waste is defined (40 CFR 261.5) as a facility with:

- Monthly hazardous waste generation of less than 100 kg (220 lbs);
- Monthly generation of acute hazardous waste of less than 1 kg (2.2 lbs);
- Monthly generation of clean-up waste from a spill of acute hazardous waste of less than 100 kg (220 lbs); and
- Total hazardous waste accumulation of less than 1,000 kg (2,200 lbs).

A Small Quantity Generator (SQG) of hazardous waste is defined (40 CFR 262.34(d)) as a facility with:

- Monthly hazardous waste generation between 100 and 1,000 kg (220-2,200 lbs);
- Monthly generation of acute hazardous waste of less than 1 kg (2.2 lbs);
- Monthly generation of clean-up waste from a spill of acute hazardous waste of less than 100 kg (220 lbs);

- Total hazardous waste accumulation of less than 6,000 kg (13,200 lbs); and
- Max on-site hazardous waste accumulation time of less than 180 days (or 270 days if waste must be transported more than 200 miles for disposal).

A Large Quantity Generator (LQG) of hazardous waste, is defined (40 CFR 262.34(a-c)) as a facility with:

- Monthly hazardous waste generation of greater than 1,000 kg (2,200 lbs); and
- On-site hazardous waste accumulation time of less than 90 days; and
- All ignitable or reactive hazardous wastes are stored 50 feet from the property line.

Incompatible wastes 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 will be marked and labeled in accordance with 40 CFR 262.31 and 49 CFR 172 and will be managed in accordance with the provisions outlined in 40 CFR 265 Subpart I – *Use and Management of Containers*. As necessary, tanks utilized for storage of hazardous waste liquids will be marked in accordance with 40 CFR 262.31 and 49 CFR 172, and will be managed in accordance with the provisions outlined in 40 CFR 265 Subpart J – *Tank Systems*.

3.4 Inspections

3.4.1 Weekly Site Inspection

The supervisor responsible for spill prevention and waste handling at this facility or his trained designated representative will conduct *weekly* visual evaluations with documentation of the facility, including all hazardous waste storage areas, to observe any abnormalities or to identify potential problems. Oil storage *containers*, their foundations, supports, and secondary containment systems are visually inspected at this time for leaks and signs of deterioration, discharges, or accumulation of oil. These inspections also address aboveground valves, piping, and appurtenances checking for the presence of leaks and signs of deterioration or malfunction. These inspections are conducted to assess the general condition of items such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking valves, and metal surfaces. Leaks and/or equipment malfunction is promptly reported and repaired. In addition, all liquid level sensing devices are regularly tested by facility authorized personnel to ensure proper operations. Any problems noted and subsequent corrective actions taken will be logged on the inspection form provided in Attachment 10, or similar forms. Visible leaks in diked areas will be promptly corrected and oil/hazardous substances accumulated within secondary containment systems will be promptly removed. This inspection also includes the following:

- Condition of facility drainage and effluent discharge points as well as the proper operation of any treatment systems;

- Condition of oil/hazardous substance spill containment system;
- External appearance of *containers* and piping;
- Condition of waste drums;
- Condition of product drums and totes;
- Integrity of containment dikes;
- Condition of containment areas; and
- Adequate aisle and workspace.

Written inspection records will be signed at the time of the inspection by the responsible supervisor or his trained designee and will be maintained for a period of at least three (3) years as part of this Plan in Attachment 14.

3.4.2 Integrity Testing

Based on EPA interpretation, aboveground shop-built vessels with capacities less than 30,000-gallons are not regulated under this subsection. Visual inspections are conducted weekly and documented annually.

Standard Operating Procedures implemented at the facility provide for integrity testing of the regulated oil storage tanks on a regular basis and whenever a material repair, alteration, reconstruction, or a change in service is done on a *container*. The frequency and type of testing takes into account size and design of the *container* to be tested.

Integrity and leak testing of any non-transportation-related buried piping is conducted at the time of installation, modification, construction, relocation, or replacement, as well as on an annual basis in accordance with the Schlumberger Environmental Standard.

Large (≥ 30,000 gallons) and Field Fabricated Containers

Formal visual external *container* inspections are conducted in addition to at least one other method of non-destructive shell testing. *Container* inspections and tests are conducted by a qualified tank inspector at appropriate frequencies as specified in the *Schlumberger Bulk Oil Storage Tank Integrity Testing Program*, which is based on applicable industry standards. Testing techniques include, but are not limited to, hydrostatic, radiographic, ultrasonic, acoustic emissions, or another system of non-destructive shell testing as may be required by applicable industry standards.

The *Schlumberger Bulk Oil Storage Tank Integrity Testing* procedures are included herein as Attachment 15. Records documenting the actual frequency and type of integrity testing conducted will be maintained on site using the appropriate forms found in that attachment.

Small and Medium Containers

Integrity testing of small and medium sized shop-built oil storage containers (i.e.: drums, totes, and tanks 30,000 gallons in capacity) will be met by complying with the weekly

inspections outlined in 3.4.1. These containers are elevated from the ground surface and are not stored in contact with the soil or standing water, thereby minimizing the potential for corrosion and allowing for inspection from all sides. In addition, a barrier is in place between the container and the soil and is designed to ensure detection of any container failure before it becomes significant. Furthermore, the facility only uses oil storage containers that are in good operational condition and that have been determined to be compatible with the material to be stored. Therefore, internal corrosion poses minimal risk of failure for small and medium sized bulk oil storage containers at this facility and visual inspection alone is sufficient to provide equivalent environmental protection to that which would be observed by implementation of additional integrity testing methods.

3.4.3 Loading/Unloading "Rack" Inspections

As identified in Attachment 4, the facility does not operate an SPCC regulated tank truck loading/unloading "racks". If SPCC regulated tank truck loading/unloading "racks" were present at the Artesia facility personnel would conduct visual inspections of the lowermost drain and outlets of oil transport vehicles (tank trucks) at the loading/unloading "rack" for leakage, tightness, needed adjustment, or replacement prior to loading/unloading and/or departure of the vehicle in accordance with 40 CFR 112.7(h)(3).

3.4.4 Effluent Treatment Facility Inspections

Qualified facility personnel conduct periodic visual inspections of the on-site effluent treatment unit and associated secondary containment systems to ensure appropriate quality of the effluent. Leaks and/or equipment malfunctions are promptly reported and repaired. Results of such inspections are recorded on the form found in Attachment 10.

In accordance with 40 CFR 112.8(c)(9), the effluent treatment unit is frequently observed by facility operations personnel during routine daily operations inspections. Any upsets of this system that could cause an oil discharge would be noted and reported to appropriate management for resolution.

3.5 Personnel Training

In accordance with the requirements of 40 CFR 112.7(f)(1), the facility provides proper instruction at regular intervals to oil-handling personnel regarding discharge procedure protocols and the operation and maintenance of equipment to prevent discharges of oil. In addition, applicable pollution control laws, rules, and regulations, general facility operations, and the contents of this SPCC/RCRA Plan are addressed in the instructional format.

In accordance with the requirements of 40 CFR 265.16, facility personnel involved in hazardous waste handling and management receive proper instruction and on-the-job training regarding hazardous waste management procedures and contingency plan implementation relevant to the positions in which they are employed. The program is designed to ensure that facility personnel are able to respond effectively to emergencies

by familiarizing trainees with the emergency procedures, emergency equipment, and emergency systems, including, where applicable:

- Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- Key parameters for waste feed cut-off systems;
- Communications or alarm systems;
- Response to fires or explosions;
- Response to groundwater contamination incidents; and
- Shutdown of operations.

Facility personnel assigned to hazardous waste management positions must complete the training program as described above within *six (6) months* after initial employment or assignment to the facility, or to a new position at the facility. Employees do not work in unsupervised positions until they have completed the training requirements as identified herein.

3.5.1 Annual Training

The facility schedules and conducts discharge prevention training for oil-handling personnel and review of the RCRA hazardous waste management requirements for hazardous waste management personnel on an *annual* basis to ensure that they possess an adequate understanding of this SPCC/RCRA Contingency Plan in accordance with 40 CFR 112.7(f)(3) and 40 CFR 265.16(c), where applicable. The briefings are designed to highlight and describe known oil and/or hazardous substance discharges in harmful quantities, failures, malfunctioning components, and any recently developed precautionary measures. The training is designed to cover site-specific information, including implementation of this Plan, and will be conducted annually by trained personnel who are familiar with the facility. At a minimum, this training will include the details of this plan and compliance requirements. The following outline addresses additional areas that may be covered in the training:

- A. General Environmental Awareness
- B. Applicable Laws and Regulations
 - 1. Clean Water Act/Oil Pollution Prevention/Spill Prevention Control and Countermeasure Plans
 - 2. Resource Conservation and Recovery Act (RCRA)/Hazardous Waste Management/RCRA Contingency Plans
- C. Waste Minimization Practices
- D. Safe Hazardous Waste Planning
 - 1. Equipment Location
 - 2. Incompatible Waste
 - 3. Access Space
 - 4. Employee Precautions

- E. Spill Prevention and Control
 - 1. Secondary Containment Devices
 - 2. Secondary Containment Device Maintenance, Use, and Limitations
 - 3. Inspection Procedures
 - 4. Operational Precautions
- F. Spill Response
 - 1. Minor Spills
 - 2. Significant Spills
- G. Emergency Response Team
 - 1. Identification
 - 2. Training
 - a. HAZWOPER 29 CFR 1910.120(c)
 - b. HAZCOM 29 CFR 1910.1200
 - c. HAZWOPER 29 CFR 1910.120(q)
 - 3. Qualifications

Schlumberger personnel training and employee documentation records are maintained in the Site Environmental History file, are posted in Quest, and are included in the individual employee training passport, which is located in the on-site office.

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 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 navigable waters or exceeds the reportable quantity for the material spilled. Refer to section 5.1.4 or website www.regulations.gov.

4.2 Spill Response Equipment

A list of available on site emergency response equipment and the location of each item are 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 On Site 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;
 - 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 off site at an authorized facility.

Any equipment that cannot be decontaminated will be disposed of off site 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 required for the Artesia facility.

5.0 REPORTING AND RECORDKEEPING

5.1 Spill Notification

When an unauthorized release of oil and/or hazardous substance occurs, the On-Site Emergency Coordinator will follow the steps outlined in Section 4.3 and must contact the Schlumberger/NAM HSE Emergency Response System (Attachment 7) to determine if the spill is reportable to local, state and/or federal agencies. If the spill is a reportable spill, then the On-Site Emergency Coordinator in conjunction with a representative from the Schlumberger/NAM HSE Emergency Response System will notify the applicable governmental agencies in accordance with the requirements outlined in the paragraphs below.

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

- Local Police and Fire Departments if evacuation is required;
- Schlumberger/NAM HSE Emergency Response System (Attachment 7);
- National Response Center (NRC) and the State Emergency Response Commission;
- Environmental Protection Agency (EPA) Regional Office; and
- Other governmental agencies (state-specific).

The owner, operator, or person in charge of any facility where a discharge has occurred must provide notification such release to the New Mexico Environment Department (NMED). Verbal notification must be provided as soon as possible after learning of a discharge, but in no event more than twenty-four (24) hours thereafter. For emergencies, call 505-827-9329 twenty-four hours a day. For non-emergencies, call 866-428-6535 (voice mail, twenty-four hours a day). For non-emergencies, and to reach an on-duty New Mexico Environment Department staff member during normal business hours, call 505-428-2500.

5.1.1 Follow Up Reporting

If required, the appropriate EPA Regional office as well as appropriate state and/or local authorities NMED will be notified of facility compliance with the following, before operations are resumed in the affected area of the facility:

- (1) Waste that may be incompatible with the released material was not treated, stored, or disposed of until cleanup procedures were complete; and
- (2) All emergency equipment has been cleaned and is fit for its intended use.

In addition, the time, date, and details of any incident that requires implementing the Contingency Plan will be noted in the facility operating log, and a written report on the incident will be submitted to the EPA Regional office within 15 days after the incident. That report will include the following:

- (1) Name, address, and telephone number of the owner/operator;
- (2) Name, address, and telephone number of the facility;
- (3) Date, time, and type of incident (e.g., fire, explosion);
- (4) Name and quantity of material(s) involved;
- (5) The extent of injuries, if any;
- (6) An assessment of actual or potential hazards to human health or the environment, where this is applicable; and
- (7) Estimated quantity and disposition of recovered material that resulted from the incident.

5.1.2 Additional Reporting Requirements

In accordance with 40 CFR 112.4, whenever a facility experiences a single spill of more than 1,000 gallons or has two greater than or equal to 42 gallon spills of oil in a 12-month period, into navigable waters or onto adjoining shorelines, the facility will submit the following information to the appropriate EPA Regional Office within 60 days of such spill. This report must first be reviewed by NAM Environmental and Schlumberger Counsel.

- Facility name and location;
- Facility owner or operator names;
- Facility maximum storage or handling capacity and normal daily oil throughput;
- Adequate facility description, including (as necessary):
 1. Maps;
 2. Flow Diagrams; and
 3. Topographic Maps.
- The cause(s) of the spill, including a failure analysis of system or subsystem in which the failure occurred;
- The corrective actions and/or countermeasures taken, including a description of equipment repairs and/or replacement;
- Any other preventive measures taken or planned to minimize the possibility of recurrence; and
- Other information the EPA Regional Office may require.

A copy of all information provided to the EPA Regional Office under these circumstances is also required to be sent at the same time to the appropriate state authority.

5.1.3 Correspondence Addresses

All written notifications, follow up reports, and any other correspondence related to the on site incident reported under the conditions as outlined in Sections 5.1.1 and 5.1.2 must be sent to the following addresses:

SPCC/FRP Coordinator U.S. EPA Region 6 (6SF-RP) 1445 Ross Avenue Dallas, Texas 75202-2733	New Mexico Environment Department P.O. Box 26110 1190 St. Francis Drive, 84050
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5.1.4 Reportable Quantities

The owner, operator, or person in charge of any facility where a discharge has occurred must provide notification such release to the New Mexico Environment Department. Any amount of any material in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or may unreasonably interfere with the public welfare or the use of property. This includes chemical, biohazardous, petroleum-product, and sewage spills and incidents. In addition to recent spills, the discovery of evidence of previous unauthorized discharges, such as contaminated soil or ground water, also must be reported. New Mexico has not established reportable quantities; therefore, the federal reportable quantities in 40 CFR 302/370 apply (www.regulations.gov).

5.2 Plan Certification, Review, and Amendment

To satisfy requirements of 40 CFR 112.3(d), an SPCC plan must be reviewed and certified by a licensed professional engineer (see Section 1.5 of this Plan). All subsequent reviews and amendments of this Plan will be documented in Attachment 16. Examples of changes that may require amendment of the Plan include, but are not limited to: installation, removal, replacement, reconstruction, or movement of oil containing equipment. The requirements for such are as follows:

- (1) Per requirements of 40 CFR 112.4(a), whenever an oil spill of over 1,000 gallons occurs or if two (2) oil spills of more than 42 gallons each occur in any twelve (12) month period, a written report must be submitted within 60 days to the EPA Regional Office, with a copy sent to the State Authority in charge of oil pollution control activities as outlined in Section 5.1.2 of this Plan. The Plan must be amended if necessary or if required by the EPA and/or State authority within 30 days from receipt of such proposed amendment as outlined in 40 CFR 112.4(d) and (e).
- (2) An SPCC Plan must be amended within six (6) months, as required in 40 CFR 112.5(a) whenever there is a change in the facility design, construction, operation, or maintenance that materially affects its potential for a discharge into the U.S. navigable waters.

- (3) Per requirements of 40 CFR 112.5(b), Schlumberger Management will review and evaluate the SPCC Plan at least once every five (5); amend the Plan within six (6) months to incorporate more effective prevention and control technology if:
- Such technology will significantly reduce the likelihood of a discharge from the facility and
 - If such technology has been field-proven at the time of the review.
- (4) Upon completion of the 5-year review, date and record the following statement in Attachment 15 of the Plan:
- "I have completed review and evaluation of the SPCC/RCRA Contingency Plan for the Artesia Schlumberger facility and made the necessary revisions/amendments identified here."*
- (5) Per requirements of 40 CFR 112.5(c), a Professional Engineer must certify any technical amendments made to the Plan. Minor changes, such as name changes of Schlumberger personnel or general facility information do not require re-certification of the SPCC/RCRA Contingency Plan by a Professional Engineer. However, these must still be noted in the "Record of Plan Review and Amendments" log found under Attachment 16.
- (6) Any amendment made to this Plan must be implemented as soon as possible but no later than six (6) months after its preparation [40 CFR 112.4(d) & (e) and 112.5(a) & (b)].

5.3 Record Retention

All records required by this plan (i.e.: reports, inspection forms, test result records, etc.) are signed by an appropriate facility supervisor or qualified inspector and maintained at the facility in hard copy (may be posted in Quest) for a period of at least three (3) years. The facility maintains comparison records of all tests performed under its customary business practices. Spill records and reports are also maintained in the on-site Environmental History file and are posted in Quest.

ATTACHMENT 1 LOCATION MAP

ATTACHMENT 2 FACILITY PLOT PLAN

ATTACHMENT 3 EMERGENCY EVACUATION DIAGRAM

ATTACHMENT 4 HAZARDOUS SUBSTANCE STORAGE AND SPILL CONTAINMENT FACILITIES



HAZARDOUS SUBSTANCE STORAGE AND SPILL CONTAINMENT FACILITIES

Storage Unit							Secondary Containment System			
Area ID	Oil Storage Container ID	Container Standard/Type (for bulk oil storage only)	Designed Storage Capacity Volume (gal)	Material Stored	Largest Container ID	Type of Worst Case Failure	Total Containment Volume Available (gal)	Inches of freeboard allowed for precipitation* (in addition to 100 % of the largest tank)	Type of Containment and indication of ability to contain oil	Predicted Direction and Rate of Spill Flow if Uncontained
Aboveground oil storage tanks (for locations, see Attachment 2)										
A1	T1	Shop Built	535	Packing Oil	T1	Rupture/Leak	1,024.17	0 (located inside a warehouse)	Steel containment located inside the building. The required height of secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 1.83 ft. The current secondary containment is 3.5 ft. high, which is sufficient to contain the volume of the largest tank plus freeboard.	NA – Meets full containment.
	T2	Shop Built	535	Super Plus 15W-40W Oil						
	T3	Shop Built	535	Used Oil						
A2	T4	Shop Built	400	Antifreeze	T5	Rupture/Leak	614.18	0 (located inside a warehouse)	Steel containment located inside the building. The required height of secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 2.28 ft. The current secondary containment is 3.5 ft. high, which is sufficient to contain the volume of the largest tank plus freeboard.	NA – Meets full containment.
	T5	Shop Built	320	10W Oil						
	T6	Shop Built	320	Plus Oil						
	T7	Shop Built	320	80/90W Heavy Duty Oil						
A3	T8	Shop Built	95	Diesel	T8	Rupture/Leak	261.8	4	Steel containment pan located outside. The required height of secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 0.70 ft. The current secondary containment is 1 ft. high, which is sufficient to contain the volume of the largest tank plus freeboard.	NA – Meets full containment.
	T9	Shop Built	95	Gas						



HAZARDOUS SUBSTANCE STORAGE AND SPILL CONTAINMENT FACILITIES

Storage Unit							Secondary Containment System			
Area ID	Oil Storage Container ID	Container Standard/Type (for bulk oil storage only)	Designed Storage Capacity Volume (gal)	Material Stored	Largest Container ID	Type of Worst Case Failure	Total Containment Volume Available (gal)	Inches of freeboard allowed for precipitation* (in addition to 100 % of the largest tank)	Type of Containment and indication of ability to contain oil	Predicted Direction and Rate of Spill Flow if Uncontained
A4	T10	Shop Built	7,050	Slurry Gel (Diesel Based)	T11	Rupture/Leak	17,113.79	4	Rubber covered wood revetment located outside. The required height of secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 1.73 ft. The current secondary containment is 2.0 ft. high, which is sufficient to contain the volume of the largest tank plus freeboard.	NA – Meets full containment.
A7	T14	Shop Built	840	Oil Water Separator	T14	Rupture/Leak	654.78	4	Steel containment area located outside. The required height of a secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 3.32 ft. The current secondary containment is 2.33 ft. high, which is not sufficient to contain the volume of the largest tank plus freeboard. To be completely upgraded within 6 months of plan implementation.	Flow toward surface water runoff Outfall #2.
Underground, Bunkered, or Partially Buried Tanks (for locations, see Attachment 2)										
NA										
Oil storage containers/drums/totes (for locations, see Attachment 2)										
A6	NA	Shop Built	300 gallon totes (total ~ 3000 gallons)	Hydro-carbon based chemicals	300 gallon totes	Rupture/Leak	13,552.55	4	Concrete containment area located outside under a roof cover, but not side covers. The required height of secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 0.35 ft. The current secondary containment is 0.5 ft. high, which is sufficient to contain the volume of the largest tank plus freeboard.	NA – Meets full containment.



HAZARDOUS SUBSTANCE STORAGE AND SPILL CONTAINMENT FACILITIES

Storage Unit							Secondary Containment System			
Area ID	Oil Storage Container ID	Container Standard/Type (for bulk oil storage only)	Designed Storage Capacity Volume (gal)	Material Stored	Largest Container ID	Type of Worst Case Failure	Total Containment Volume Available (gal)	Inches of freeboard allowed for precipitation* (in addition to 100 % of the largest tank)	Type of Containment and indication of ability to contain oil	Predicted Direction and Rate of Spill Flow if Uncontained
Undiked Areas With a Potential for Discharge										
NA										
Oil-containing equipment (for locations, see Attachment 2)										
Tank Car/Tank Truck Loading/Unloading "Racks" (for location, see Attachment 2)										
A8	NA	Shop Built	5,000 gallon container on truck	36% HCL Acid	5,000	Rupture/Leak	1,391.28	0 (not a hydrocarbon)	Per Schlumberger internal requirements non-hydrocarbon liquid chemical storage or loading/unloading areas must contain 110% of the largest tank. The containment area will hold 1,391.28 gallons. The containment in A8 will not meet Schlumberger internal chemical storage requirements. **	Does not meet Schlumberger's internal 110% containment requirement.
Tank Car/Tank Truck Loading/Unloading Connection Areas (for location, see Attachment 2)										
NA										



HAZARDOUS SUBSTANCE STORAGE AND SPILL CONTAINMENT FACILITIES

Storage Unit							Secondary Containment System			
Area ID	Oil Storage Container ID	Container Standard/Type (for bulk oil storage only)	Designed Storage Capacity Volume (gal)	Material Stored	Largest Container ID	Type of Worst Case Failure	Total Containment Volume Available (gal)	Inches of freeboard allowed for precipitation* (in addition to 100 % of the largest tank)	Type of Containment and indication of ability to contain oil	Predicted Direction and Rate of Spill Flow if Uncontained
Hazardous substances storage tanks/drums/containers/totes										
A2	T4	Shop Built	400	Antifreeze						
A4	T11	Shop Built	12,000	36% HCL Acid	T11	Leak/Rupture	17,113.79	4	Rubber covered wood revetment located outside. The required height of secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 1.73 ft. The current secondary containment is 2.0 ft. high, which is sufficient to contain the volume of the largest tank plus freeboard.	NA – Meets full containment.
	T12	Shop Built	2,630	Waste Water						
	T13	Shop Built	6,500	Mix Tank						
	NA	Totes	330 gallon totes (total ~1,980 gallons)	Alcohol Based						
A5	NA	Totes	300 gallon totes (total ~900 gallons)	Alcohol Based	300 gallon tote	Leak/Rupture	1,620.91	4	Per Schlumberger internal requirements non-hydrocarbon liquid chemical storage or loading/unloading areas must contain 110% of the largest tank. The containment area will hold 1,620.91 gallons. The containment in A5 will meet Schlumberger internal chemical storage requirements. **	NA – Meets full containment.
A6	NA	Drums	55 gallon drums (total ~550 gallons)	Alcohol Based	300 gallon totes	Leak/Rupture	13,552.55	4	Concrete containment area located outside under a roof cover, but not side covers. The required height of secondary containment needed to contain the volume of the largest oil-containing tank plus the freeboard is 0.35 ft. The current secondary containment is 0.5 ft. high, which is sufficient to contain the volume of the largest tank plus freeboard.	NA – Meets full containment.
	NA	Containers	5 gallon containers (total ~250 gallons)	Alcohol Based						
	NA	Totes	300 gallon containers (total ~7,500 gallons)	Alcohol Based						



HAZARDOUS SUBSTANCE STORAGE AND SPILL CONTAINMENT FACILITIES

Storage Unit							Secondary Containment System			
Area ID	Oil Storage Container ID	Container Standard/Type (for bulk oil storage only)	Designed Storage Capacity Volume (gal)	Material Stored	Largest Container ID	Type of Worst Case Failure	Total Containment Volume Available (gal)	Inches of freeboard allowed for precipitation* (in addition to 100 % of the largest tank)	Type of Containment and indication of ability to contain oil	Predicted Direction and Rate of Spill Flow if Uncontained
Hazardous waste storage tanks/drums/containers/totes										
NA										

*25-year, 24-hour rain event for this facility is 4 inches [source: http://www.srh.noaa.gov/lub/wx/precip_freq/precip_index.htm]

** One hundred and ten percent (110%) containment requirement for non-oil products per Schlumberger internal policy.



This page reserved for insertion of Engineering calculations of Containment volumes.



ATTACHMENT 5
ON-SITE EMERGENCY CALL LIST



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	Ismael DeLaRosa Location Manager	Work: 505-748-1392 Home: Cell: 505-703-1007 Pager: NA
Secondary On Site Emergency Coordinator	Darwin Thompson, Facility Manager	Work: 505-748-1392 Home: 505-746-3834 Cell: 505-910-2481 Pager: NA
1st Alternate On Site Emergency Coordinator	Melvin Livesay Maintenance Supervisor	Work: 505-748-1392 Home: 505-748-7365 Cell: 505-513-1366 Pager: NA
2nd Alternate Emergency Coordinator	Manual Guajardo QHSE Coordinator	Work: 505-748-1392 Home: 505-746-3397 Cell: 505-513-1340 Pager: NA
Corporate Emergency Coordinator / Media Communications Officer	Wayne Fulin NAM QHSE Manager	Work: 281-285-8853 Cell: 281-433-2994 Pager: NA
Corporate Emergency Coordinator (capable to commit manpower & financial resources)	Wayne Fulin NAM QHSE Manager	Work: 281-285-8853 Cell: 281-433-2994 Pager: NA



ATTACHMENT 6
SPILL CLEANUP CONTRACTOR(S)



SPILL CLEANUP CONTRACTOR(S)

NAME: Indian Fire and Safety
ADDRESS: 3317 West County Road
CITY, STATE, ZIP: Hobbs, NM 88240
PHONE No.: 505-393-3093
FAX No.: 505-392-6274
EPA I.D. No.: NM DO0719716
Response Time: 1.5 HOURS
Response Equipment Capabilities: cleanup crews, monitoring, and manpower

NAME: Southwest Safety Specialist
ADDRESS: 3824 Lovington Hwy
CITY, STATE, ZIP: Hobbs, New Mexico 88240
PHONE No.: 505-392-8080
FAX No.: 505-393-3082
EPA I.D. No.: None
Response Time: 1.5 hours
Response Equipment Capabilities: cleanup crews, monitoring and support

NAME: RWI
ADDRESS: 3434 N West County Road
CITY, STATE, ZIP: Hobbs, New Mexico
PHONE No.: 505-393-5305
FAX No.: 505-492-9845
EPA I.D. No.: None
Response Time: 1.5 hours
Response Equipment Capabilities: backhoe, manpower



ATTACHMENT 7
SCHLUMBERGER/NAM HSE EMERGENCY RESPONSE SYSTEM
AND OFF-SITE EMERGENCY NOTIFICATION PHONE LIST



SCHLUMBERGER/NAM HSE EMERGENCY RESPONSE SYSTEM
CHEMICAL EMERGENCY RESPONSE SYSTEM

The Chemical Emergency Response System is designed to provide immediate response information to the scene of 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. INCIDENTS WHEN EMERGENCY PHONE NUMBER MAY BE USED:

- A. *OIL OR OTHER HAZARDOUS SUBSTANCE 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 including cause.*
 - 2. *Identities of the chemicals (product codes are acceptable).*
 - 3. *Amount spilled (estimates are acceptable) and source.*
 - 4. *Location, date, and time of the incident.*
 - 5. *Name and phone number of local contact person (standby for call back from ER Team member).*
 - 6. *Description of all affected media.*
 - 7. *Identification of damages, injuries, and need for evacuation.*
 - 8. *Actions being taken to stop, remove, and mitigate the affects of the incident.*
 - 9. *Names of individuals and organizations already contacted.*



OFF-SITE EMERGENCY NOTIFICATION PHONE LIST

ORGANIZATION	TELEPHONE NUMBER
FEDERAL	
National Response Center (NRC)	800-424-8802
EPA, Region 6 (for TX, LA, AR, OK, & NM)	866-372-7745
Bureau of Alcohol, Tobacco, and Firearms	888-283-2662
STATE	
NMED Emergency Response	505-827-9329
NMED non-emergency	866-428-6535
New Mexico Oil Conservation Division	505-748-1238
Poison Control Center	800-764-7661
LOCAL	
Sheriff Department (Primary)	911
Police Department (Secondary)	911
Fire Department (Primary)	911
Fire Department	911
City/County Pollution Control Artesia Fire Department	505-488-5050
City/County Office of Emergency Management Eddy County Emergency Coordinator	505-887-9511
Local Emergency Planning Committee Eddy County Emergency Coordinator	505-887-9511
Local Television/Radio Station for Evacuation Notification KSVP Radio Station	505-746-2751
Hospital/Ambulance	911



ATTACHMENT 8
SPILL/EMERGENCY RESPONSE
EQUIPMENT



SPILL/EMERGENCY RESPONSE EQUIPMENT

ITEM	QUANTITY	PURPOSE	LOCATION
20# Dry Chemical Fire Extinguisher	20	Fire-fighting	At least 1 at each work areas
Hand-held Radios	3	Communications	Main Office Building
Intercom Systems	1	Communications & Alarm On Site	On Site
Shovels & Rakes	2	Spill Cleanup	Emergency Response Kit
Absorbent "Soil"	3 sacks	Spill Cleanup	Emergency Response Kit and in the shop and warehouse
Trucks	1	Transport	On Site
Overpack Drum	2	Spill Control	Emergency Spill Kit
Drum Patch Kit	1	Spill Control	Emergency Response Kit
Absorbent Booms	2	Spill Control	Emergency Response Kit



ATTACHMENT 9
ARRANGEMENTS WITH LOCAL AUTHORITIES
(RESERVED)



ATTACHMENT 10
WEEKLY ENVIRONMENTAL INSPECTION REPORT
(SEE SECTION 3.4.1)



WEEKLY ENVIRONMENTAL INSPECTION FORM

	YES	NO	NA
1. Yard and parking area free of spills?	☐	☐	☐
2. Waste/product storage containers and tanks in good condition, free of deterioration, properly labeled, and dated?	☐	☐	☐
3. Drum storage area free of spills or leaks and properly sealed?	☐	☐	☐
4. Slurry gel plant free of spills or leaks?	☐	☐	☐
5. Acid dock area free of spills and leaks?	☐	☐	☐
6. Cement plant free of spills and dust collector working properly?	☐	☐	☐
7. Stimulation warehouse free of spills?	☐	☐	☐
8. Fuel island clean and free of spills?	☐	☐	☐
9. Shop oil storage area free of spills and leaks?	☐	☐	☐
10. Is Safety-Kleen confined to the station?	☐	☐	☐
11. Paint and thinner properly stored?	☐	☐	☐
12. Batteries in proper storage area?	☐	☐	☐
13. Shop area free of spills?	☐	☐	☐
14. Are all hazardous waste containers closed?	☐	☐	☐
15. Are all hazardous waste containers in good condition with no signs of deterioration?	☐	☐	☐
16. Are all hazardous waste containers appropriately labeled, including an indication of the start date for waste accumulation?	☐	☐	☐
17. Are all hazardous waste containers under the generator status storage requirement?	☐	☐	☐
18. Are the hazardous waste containers free of spills and leaks?	☐	☐	☐
19. Is Emergency Response Equipment in working order and properly stocked?	☐	☐	☐
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)	☐	☐	☐
21. Are all areas on site free of soil erosion indicators?	☐	☐	☐
22. Does the integrity of all small bulk oil storage containers (i.e.: drums and totes) appear to be uncompromised?	☐	☐	☐
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?			
Totes containing alcohol based chemicals stored in A4.	☐	☐	☐
Totes containing alcohol based chemicals stored in A5.	☐	☐	☐
Totes containing alcohol and hydrocarbon based chemicals stored in A6.	☐	☐	☐
24. Liquid level sensing devices operating properly?	☐	☐	☐
25. Facility drainage and effluent discharge points in good condition?	☐	☐	☐
26. Treatment system operating properly?	☐	☐	☐
27. Secondary containment and oil spill retention systems in good condition?	☐	☐	☐
28. Adequate aisle space available? (must be at least 3')	☐	☐	☐

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: _____



ATTACHMENT 11
REGULATORY CROSS-REFERENCE MATRICES



REGULATORY CROSS-REFERENCE MATRICES

40 CFR 112 Citation	Description	Section of the Plan
112.3	Requirement to prepare and implement a Spill Prevention, Control, and Countermeasure Plan	1.1
112.3(d)	Professional Engineer Certification	1.5
112.4	Amendment of SPCC Plan by Regional Administrator	1.5
112.5	Amendment of SPCC Plan by owners or operators	1.5 & 5.2
112.6	[Reserved]	
112.7	General requirements for SPCC Plans – management approval	1.4
112.7(a)(1)	Conformance with the rule requirements	1.2
112.7(a)(2)	Alternative conformance with the rule requirements	1.2
112.7(a)(3)	Facility physical layout description	2.1 & Attachment 2
112.7(a)(3)(i)	Type of oil and storage capacity	2.3 & Attachment 4
112.7(a)(3)(ii)	Discharge prevention measures	3.2 & Attachments 2 & 3
112.7(a)(3)(iii)	Discharge or drainage controls	3.2 & Attachments 2 & 3
112.7(a)(3)(iv)	Countermeasures for discharge discovery, response, and cleanup	3.4 & 4.3
112.7(a)(3)(v)	Disposal of recovered materials	4.4.3
112.7(a)(3)(vi)	Contact list and phone numbers for on site and off site notification	2.2 & Attachments 5, 6 & 7
112.7(a)(4)	Discharge notification report format (per 40 CFR 112.20)	4.1 & Attachments 5, 6 & 7
112.7(a)(5)	Response procedures (per 40 CFR 112.20)	4.3 & 4.4
112.7(b)	Fault analysis	3.0
112.7(c)	Secondary containment	3.2
112.7(d)	Contingency planning	0
112.7(e)	Inspections, tests, and records	3.4 & 5.3
112.7(f)	Personnel training and discharge prevention procedures	
112.7(f)(1)	Oil-handling personnel training	3.5
112.7(f)(2)	Person designated for discharge prevention	2.2
112.7(f)(3)	Annual discharge prevention briefings	3.5.1
112.7(g)	Security (excluding oil production facilities)	3.1
112.7(g)(1)	Fencing	3.1.1
112.7(g)(2)	Valves	3.1.2
112.7(g)(3)	Pumps	3.1.3
112.7(g)(4)	Loading/unloading connections	3.1.4
112.7(g)(5)	Lighting	3.1.5
112.7(g)(5)(i)	During darkness	3.1.5
112.7(g)(5)(ii)	Acts of vandalism	3.1.5
112.7(h)	Tank car and tank truck loading/unloading rack (excluding offshore facilities)	
112.7(h)(1)	Quick drainage system	3.2.2
112.7(h)(2)	Warning light or physical barrier	3.2.2
112.7(h)(3)	Inspections prior to departure	3.4.3
112.7(i)	Brittle fracture evaluation requirements	Attachment 15
112.7(j)	Conformance with State Requirements	1.3
112.8	Requirements for onshore facilities (excluding production	

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40 CFR 112 Citation	Description	Section of the Plan
	facilities)	
112.8(a)	General and specific requirements	3.0
112.8(b)	Facility drainage	
112.8(b)(1)	Drainage valves	3.2.3
112.8(b)(2)	Valve types and inspection of accumulated stormwater	3.2.4 & 3.4.4
112.8(b)(3)	Drainage system design	3.2.4 & 3.4.4
112.8(b)(4)	Diversions system	3.2.4 & 3.4.4
112.8(b)(5)	Lift stations (pump) design	3.2.5
112.8(c)	Bulk storage containers	
112.8(c)(1)	Compatibility	3.2.1
112.8(c)(2)	Secondary containment design capacity	3.2.1
112.8(c)(3)	Discharges of stormwater from diked areas	3.2.4
112.8(c)(4)	Protection of buried metallic storage tanks	3.2.1
112.8(c)(5)	Protection of partially buried metallic storage tanks	3.2.1
112.8(c)(6)	Integrity and visual testing	3.4.2 & Attachment 15
112.8(c)(7)	Monitoring of steam return and exhaust lines	3.2.1
112.8(c)(8)	Container installation update	3.2.1
112.8(c)(8)(i)	High liquid level alarms	3.2.1
112.8(c)(8)(ii)	Pump cutoff devices	3.2.1
112.8(c)(8)(iii)	Audible or code signal communications	3.2.1
112.8(c)(8)(iv)	Fast response system for determining liquid levels	3.2.1
112.8(c)(8)(v)	Testing of high level sensing devices	3.2.1
112.8(c)(9)	Treatment facility upsets	3.4.4
112.8(c)(10)	Prompt repairs and spills cleanup	3.2.1
112.8(c)(11)	Secondary containment for portable oil storage containers	N/A
112.8(d)	Facility transfer operations, pumping, and facility process	
112.8(d)(1)	Protective wrapping and coating for buried piping	3.2.2
112.8(d)(2)	Capping of pipes not in use	3.2.2
112.8(d)(3)	Pipe supports	3.2.2
112.8(d)(4)	Inspection of valves, piping, and appurtenances	3.4.3
112.8(d)(5)	Aboveground piping warning signals	3.2.2

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REGULATORY CROSS-REFERENCE MATRICES		
Resource Conservation and Recovery Act Plan (40 CFR 265)		
40 CFR	Regulation or Requirement	RCRA Contingency Plan Citation(s)
265.52	Content of contingency plan	
265.52(a)	Emergency response actions	4.0
265.52(b)	Consolidation of RCRA Contingency Plan and SPCC Plan	1.0
265.52(c)	Coordination with State and local response parties	4.4.4 & Attachment 9
265.52(d)	Emergency coordinator(s)	2.2 & Attachment 5
265.52(e)	Detailed description of emergency equipment on site	Attachment 8
265.52(f)	Evacuation plan	4.3 & Attachment 3
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	4.4.4 & Attachment 9
265.54	Amendment of contingency plan	5.2
265.55	Emergency coordinator	2.2 & Attachment 5
265.56	Emergency procedures	4.3 & Attachment 7
265.56(a)	Notification	5.1 & Attachments 5, 6, & 7
265.56(b)	Emergency identification/characterization	4.3 & 4.4
265.56(c)	Health/environmental assessment	4.3 & 4.4
265.56(d)	Reporting	5.1 & 5.1.1
265.56(e)	Containment	3.2
265.56(f)	Monitoring	4.3 & 4.4
265.56(g)	Treatment, storage or disposal of waste	4.4.3
265.56(h)	Cleanup procedures	
	(1) Disposal	4.4.3
	(2) Decontamination	4.4.2
265.56(i)	Follow up procedures	5.1.1
265.56(j)	Follow up report	5.1.1 & 5.1.3



ATTACHMENT 12
APPLICABILITY CERTIFICATION OF THE
SUBSTANTIAL HARM CRITERIA



APPLICABILITY CERTIFICATION OF THE SUBSTANTIAL HARM CRITERIA

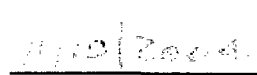
507 East Richey
Artesia, New Mexico

- 1) Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?
Yes ☐ No ☒
- 2) Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?
Yes ☐ No ☒
3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III to this appendix or a comparable formula {1}) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments? For further description of fish and wildlife and sensitive environments, see Appendices I, II, and III to DOC/NOAA's "Guidance for Facility and Vessel Response Plans: Fish and Wildlife and Sensitive Environments" (see Appendix E to 40 CFR 112, section 10, for availability) and the applicable Area Contingency Plan.
Yes ☐ No ☒
4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III to this appendix or a comparable formula {1}) such that a discharge from the facility would shut down a public drinking water intake {2}?
Yes ☐ No ☒
5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?
Yes ☐ No ☒

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.


Lynn Northcutt
Location Manager


Date

{1} If a comparable formula is used documentation of the reliability and analytical soundness of the comparable formula must be attached to this form.

{2} For the purposes of 40 CFR 112, public drinking water intakes are analogous to public water systems as described at 40 CFR 143.2(c).



ATTACHMENT 13

**SECONDARY CONTAINMENT ACCUMULATED STORMWATER
INSPECTION AND AUTHORIZATION OF DISCHARGE FORMS (SEE
SECTION 3.2.4 MANAGEMENT OF ACCUMULATED LIQUIDS)**



SECONDARY CONTAINMENT ACCUMULATED STORMWATER INSPECTION
AND AUTHORIZATION OF DISCHARGE TO GROUND SURFACE

Date of Inspection (mm/dd/yy)	Name of Inspector	Name of Secondary Containment Area(s) Inspected	Accumulated rainwater is visually inspected and determined to be:		Signature of Facility Supervisor authorizing the discharge	Any non-compliance with the inspection protocol must be described here as well as measures taken to address the situation.
			Clear (Yes/No)	Free of color, odor, floating, settled, and suspended solids, foam, and oil sheen (Yes/No)		

Copy this form as needed. Retain completed records in Attachment 14.

Removal of accumulated liquids inside the containment systems can be accomplished by using a portable pump or vacuum truck. Removal requires approval from the facility supervisor. Accumulated stormwater that is contaminated must be managed appropriately for potential reuse, treatment, or disposal.

Under no circumstances may stormwater within on site acid containment systems be discharged to the ground surface unless a formal exemption request has been made to, and approved by, NAM Environmental. In order to receive an exemption from these procedures, facilities may submit an exemption request within Quest along with detailed operating and recordkeeping procedures that will be implemented at the facility to document that no contaminated discharges will result from the deviation.



ATTACHMENT 14
COMPLETED INSPECTION FORMS



ATTACHMENT 15
BULK OIL STORAGE CONTAINER INTEGRITY TESTING PROGRAM
(RESERVED)



ATTACHMENT 16
RECORD OF PLAN REVIEW AND AMENDMENTS
(SEE SECTION 5.2)



RECORD OF PLAN REVIEW AND AMENDMENTS

Review/ Amendment Date	Reason for Review/ Amendment	Amendment Required (Yes/No)	Section or Page Affected	P.E. Re- Certification Required (Yes/No)	<i>"I have completed review and evaluation of the SPCC/RCRA Contingency Plan for the Artesia Schlumberger facility and made the necessary revisions/amendments identified here."</i>

ATTACHMENT 8
STATEMENT OF COMMITMENT
TO NMOCD RULE 116 AND
WQCC SECTION 1203

I the undersigned do hereby acknowledge that I have read and understand NMOCD Rule 116 and WQCC Section 1203. I further commit to abide by the requirements to report any release as specified to the New Mexico Oil Conservation Division and or the New Mexico Environment Department in the manner required by any rule or law of the State of New Mexico.



Location or Operations Manager

11-21-2007
Date

ATTACHMENT 9
ENVIRONMENTAL EXIT
SURVEY CHECKLIST

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:

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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 _____

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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.)

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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 _____

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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)



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

September 23, 2002

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL

RETURN RECEIPT NO. 3929 9154

Mr. Darwin Thompson
Schlumberger Technology Corp.
P.O. Box 300
Artesia, New Mexico 88210

**RE: Discharge Plan Renewal Approval GW-114
Schlumberger Technology Corp.
Artesia Service Facility
Eddy County, New Mexico**

Dear Mr. Thompson:

The ground water discharge plan renewal GW-114 for the Schlumberger Technology Corp. Artesia Service Facility located in the SE/4 SE/4 of Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 days of receipt of this letter.**

The original discharge plan application was submitted on August 14, 1992 and approved December 2, 1992. The discharge plan renewal application, dated July 31, 2002, was submitted pursuant to Sections 5101.B.3. of the New Mexico Water Quality Control Commission (WQCC) Regulations. The discharge plan is renewed pursuant to Sections 5101.A. and 3109.C. Please note Section 3109.G., which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve Schlumberger Technology Corp. of liability should operations result in pollution of surface water, ground water, or the environment.

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

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

Mr. Darwin Thompson
GW-114 Artesia Service Facility
September 23, 2002
Page 2

Pursuant to Section 3109.H.4., this discharge plan is for a period of five years. This plan will expire on **December 2, 2007**, and Schlumberger Technology Corp. should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan .

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

The discharge plan application for the Schlumberger Technology Corp. Artesia Service Facility is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal application will be assessed a non-refundable fee equal to the filing fee of \$100. There is a flat fee assessed for oil and gas service companies equal to \$1,700.00. The OCD has received the filing fee.

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

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

Sincerely,



Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/wjf
Attachment

xc: OCD Artesia Office

ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-114
SCHLUMBERGER TECHNOLOGY CORP.
ARTESIA SERVICE FACILITY
DISCHARGE PLAN APPROVAL CONDITIONS
(September 23, 2002)

1. Payment of Discharge Plan Fees: The \$100.00 filing fee has been received by the OCD. There is a flat fee assessed for oil and gas service companies equal to \$1,700.00. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.
2. Schlumberger Technology Corp. Commitments: Schlumberger Technology Corp. will abide by all commitments submitted in the discharge plan renewal application dated July 31, 2002 and these conditions for approval.
3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
4. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
5. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.
7. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
8. Labeling: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.

9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
10. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity every 5 years. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
11. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
12. Housekeeping: All systems designed for spill collection/prevention will be inspected by a Schlumberger Technology Corp.'s representative on a regular basis and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained for a period of five years.
13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Artesia District Office.
14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
15. Storm Water Plan: Schlumberger Technology Corp. shall maintain storm water runoff controls. As a result of Schlumberger Technology Corp.'s operations any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any storm water runoff then Schlumberger Technology Corp. shall notify the OCD within 24 hours, modify the plan within 15 days and submit for OCD approval. Schlumberger Technology Corp. shall also take immediate corrective actions pursuant to Item 12 of these conditions.

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

Accepted:

SCHLUMBERGER TECHNOLOGY CORP.

by Darwin Thompson
Title
Facility Manager

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 10/4/02
or cash received on _____ in the amount of \$ 1,700.00
from Schlumberger
for Artesia Service Facility GW-114
(Facility Name)
Submitted by: [Signature] Date: 10/18/02 (DP No.)
Submitted to ASD by: _____ Date: _____
Received in ASD by: _____ Date: _____
Filing Fee _____ New Facility _____ Renewal ☒
Modification _____ Other _____
(Specify)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment _____



SCHLUMBERGER EMPLOYEES CREDIT UNION

225 Schlumberger Drive • Sugar Land, Texas 77478-3129 • 281/285-4551

ONE THOUSAND SEVEN HUNDRED AND 00/100 DOLLARS

CASHIER'S CHECK

NOTICE TO CUSTOMERS

The purchase of an Indemnity Bond will be required before any
this Credit Union will be replaced or
refunded in the event it is lost, misplaced or stolen.

\$1,700.00

WATER MANAGEMENT QUALITY
MANAGEMENT FUND

PAY

TO THE
ORDER OF

[Signature]
Schlumberger Employees Credit Union

IF PRESENTED IN 90 DAYS

THE SANTA FE
NEW MEXICAN
Founded 1849

NM OIL CONSERVATION DIVISION

NOTICE OF
PUBLICATION

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

Notice is hereby given that pursuant to 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-114) - Dowell
Schlumberger, Mr. Darwin Thompson, 507 East

Richey, Artesia, New Mexico 88210, has submitted a discharge plan renewal application for their Artesia Oilfield Pumping Service Company facility located in the S/2 SW/4, Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico. Approximately 250 gallons of waste water with a total dissolved solids concentration of approximately 1100 mg/l is stored 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 25 feet with a total dissolved solids greater than 1500 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 14th day of August, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL
LORI WROTENBERY, Director
Legal #72029
Pub. Aug. 23, 2002

AD NUMBER: 277199 ACCOUNT: 56689
LEGAL NO: 72029 P.O.#: 03199000050
185 LINES 1 time(s) at \$ 81.55
AFFIDAVITS: 5.25
TAX: 5.43
TOTAL: 92.23

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, K. Voorhees 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 #72029 a copy of which is hereto attached was published in said newspaper 1 day(s) between 08/23/2002 and 08/23/2002 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 23 day of August, 2002 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/

K. Voorhees
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
23 day of August A.D., 2002

Notary

Commission Expires

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Dawn Higgins,
being first duly sworn, on oath says:

That she is Business Manager
of the Carlsbad Current-Argus, a newspaper published
daily at the City of Carlsbad, in said county of Eddy,
state of New Mexico and of general paid circulation in
said county; that the same is a duly qualified
newspaper under the laws of the State wherein legal
notices and advertisements may be published; that the
printed notice attached hereto was published in the
regular and entire edition of said newspaper and not in
supplement thereof on the date as follows, to wit:

August 23, 2002
_____, 2002
_____, 2002
_____, 2002
_____, 2002
_____, 2002

That the cost of publication is \$ 64.26
and that payment thereof has been made and will be
assessed as court costs.

Dawn Higgins

Subscribed and sworn to before me this

23 day of August, 2002
Stephanie Dobson

My commission expires 12/13/05
Notary Public

P.O. #03-199-050127

Director of the Oil Conservation division, 1220
South Saint Francis
Drive, Santa Fe, New
Mexico 87505, Telephone
(505) 476-3440:

(GW-114) - Dowell
Schlumberger, Mr.
Darwin Thompson,
507 East Richey, Ar-
tesia, New Mexico
88210, has submitted
a discharge plan re-
newal application for
their Artesia Oil field
Pumping Service
Company facility lo-
cated in the S/2 SW/4,
Township 17 South,
Range 26 East, NMPM,
Eddy County, New
Mexico. Approximate-
ly 250 gallons of
waste water with a to-
tal dissolved solids
concentration of ap-
proximately mg/l is
stored in an above
ground closed tank
prior to transport to
an OCD approved
off-site disposal facili-
ty. Groundwater mos-
tly likely to be affected by
an accidental dis-
charge is at a depth of
25 feet with total dis-
solved solids greater
than 1500 mg/l. The
discharge plan ad-
dresses how spill
leaks, and other acci-
dental discharges to
the surface will be
managed.

August 23, 2002
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 Reg-
ulations, the following dis-
charge plan application
has been submitted to the

If no hearing is held, the
Director will approve or
disapprove the plan
based on the information
available. If a public hear-
ing is held, the Director
will approve the plan
based on the information
in the plan and informa-
tion presented at the he-
ring.

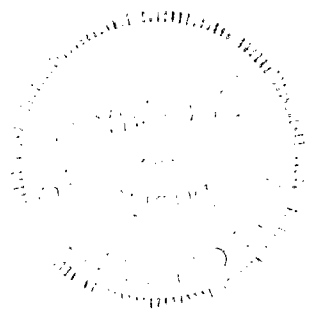
GIVEN under the Seal of
New Mexico Conservation
Commission at Santa Fe,
New Mexico, on this 14th
day of August 2002.

STATE OF NEW
MEXICO OIL
CONSERVATION
DIVISION

LORI WROTENBERY,
Director

Any interested person
may obtain further infor-
mation from the Oil
Conservation Division
and may submit written
comments to the Director
of the Oil Conservation
Division at the address
given above. The dis-
charge 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 mod-
ification, the Director of
the Oil Conservation Divi-
sion shall allow at least
thirty (30) days after the
date of publication of this
notice during which com-
ments may be submitted
to him and public hearing
may be requested by any
interested person. Re-
quest for public hearing
shall set forth the reasons
why a hearing shall be
held. A hearing will be
held if the director deter-
mines that there is signifi-
cant public interest.

OIL CONSERVATION DAY
02 AUG 28 PM 12:35



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-114) – Dowell Schlumberger, Mr. Darwin Thompson, 507 East Richey, Artesia, New Mexico 88210, has submitted a discharge plan renewal application for their Artesia Oilfield Pumping Service Company facility located in the S/2 SW/4, Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico. Approximately 250 gallons of waste water with a total dissolved solids concentration of approximately 1100 mg/l is stored 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 25 feet with a total dissolved solids greater than 1500 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

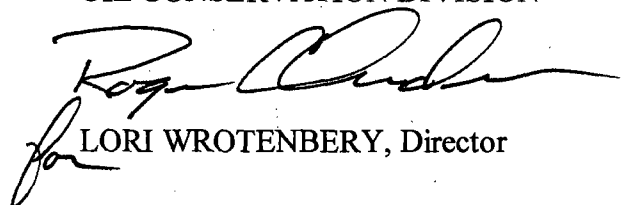
Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above.

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

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 14th day of August, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY, Director

SEAL



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

September 23, 2002

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 9154

Mr. Darwin Thompson
Schlumberger Technology Corp.
P.O. Box 300
Artesia, New Mexico 88210

**RE: Discharge Plan Renewal Approval GW-114
Schlumberger Technology Corp.
Artesia Service Facility
Eddy County, New Mexico**

Dear Mr. Thompson:

The ground water discharge plan renewal GW-114 for the Schlumberger Technology Corp. Artesia Service Facility located in the SE/4 SE/4 of Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 days of receipt of this letter.**

The original discharge plan application was submitted on August 14, 1992 and approved December 2, 1992. The discharge plan renewal application, dated July 31, 2002, was submitted pursuant to Sections 5101.B.3. of the New Mexico Water Quality Control Commission (WQCC) Regulations. The discharge plan is renewed pursuant to Sections 5101.A. and 3109.C. Please note Section 3109.G., which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve Schlumberger Technology Corp. of liability should operations result in pollution of surface water, ground water, or the environment.

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

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

Mr. Darwin Thompson
GW-114 Artesia Service Facility
September 23, 2002
Page 2

Pursuant to Section 3109.H.4., this discharge plan is for a period of five years. This plan will expire on **December 2, 2007**, and Schlumberger Technology Corp. should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan .

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

The discharge plan application for the Schlumberger Technology Corp. Artesia Service Facility is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal application will be assessed a non-refundable fee equal to the filing fee of \$100. There is a flat fee assessed for oil and gas service companies equal to \$1,700.00. The OCD has received the filing fee.

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

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

Sincerely,


Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/wjf
Attachment

xc: OCD Artesia Office

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To	
Street, Apt. No., or PO Box No.	
City, State, ZIP+ 4	
PS Form 3800, January 2001	
See Reverse for Instructions	

505 476 3489
SEP 23 2002
SANTA FE NM
Postmark Here
D. Thompson
505 476 3489
GW-114

ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-114
SCHLUMBERGER TECHNOLOGY CORP.
ARTESIA SERVICE FACILITY
DISCHARGE PLAN APPROVAL CONDITIONS
(September 23, 2002)

1. Payment of Discharge Plan Fees: The \$100.00 filing fee has been received by the OCD. There is a flat fee assessed for oil and gas service companies equal to \$1,700.00. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.
2. Schlumberger Technology Corp. Commitments: Schlumberger Technology Corp. will abide by all commitments submitted in the discharge plan renewal application dated July 31, 2002 and these conditions for approval.
3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
4. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
5. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.
7. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
8. Labeling: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.

9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
10. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity every 5 years. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
11. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
12. Housekeeping: All systems designed for spill collection/prevention will be inspected by a Schlumberger Technology Corp.'s representative on a regular basis and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained for a period of five years.
13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Artesia District Office.
14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
15. Storm Water Plan: Schlumberger Technology Corp. shall maintain storm water runoff controls. As a result of Schlumberger Technology Corp.'s operations any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any storm water runoff then Schlumberger Technology Corp. shall notify the OCD within 24 hours, modify the plan within 15 days and submit for OCD approval. Schlumberger Technology Corp. shall also take immediate corrective actions pursuant to Item 12 of these conditions.

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

Accepted:

SCHLUMBERGER TECHNOLOGY CORP.

by _____
Title

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-114) – Dowell Schlumberger, Mr. Darwin Thompson, 507 East Richey, Artesia, New Mexico 88210, has submitted a discharge plan renewal application for their Artesia Oilfield Pumping Service Company facility located in the S/2 SW/4, Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico. Approximately 250 gallons of waste water with a total dissolved solids concentration of approximately 1100 mg/l is stored 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 25 feet with a total dissolved solids greater than 1500 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

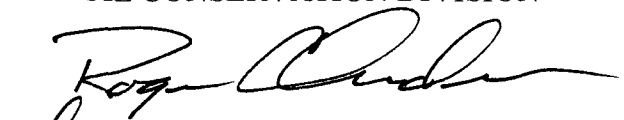
Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above.

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

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 14th day of August, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


for LORI WROTENBERY, Director

SEAL

ATTACHMENT TO THE DISCHARGE PLAN GW-114 RENEWAL
DOWELL SCHLUMBERGER OILFIELD SERVICES
ARTESIA FACILITY
DISCHARGE PLAN APPROVAL CONDITIONS
(November 25, 1997)

1. Payment of Discharge Plan Renewal Fees: The \$50.00 filing fee has been received. A flat fee for service company facilities is equal to one-half of the original flat fee.
2. Dowell Schlumberger: Dowell Schlumberger Oilfield Services will abide by all commitments submitted in the discharge plan application dated July 29, 1997.
3. Waste Disposal: All wastes shall be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous by characteristics may be disposed of at an OCD approved facility upon proper waste characterization per 40 CFR Part 261.
4. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
5. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
7. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
8. Labeling: All tanks, drums and containers should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.

9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
10. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
11. Class V Wells: Leach fields and other wastewater disposal systems at OCD regulated facilities which inject fluid other than domestic waste sewage below the surface are considered Class V injection wells under the EPA UIC program. All class V wells will be closed unless, it can be demonstrated that protectable groundwater will not be impacted in the reasonably foreseeable future. Class V wells must be closed through the Santa Fe Office. The OCD allows industry to submit closure plans which are protective of human health, environment and groundwater as defined by the WQCC, and are cost effective.
12. Housekeeping: All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.
13. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Aztec District Office.
14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
15. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

16. Certification: Dowell Schlumberger Oilfield Services, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Dowell Schlumberger Oilfield Services further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:


DOWELL SCHLUMBERGER OILFIELD SERVICES

by LOCATION MANAGER
Title



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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

November 25, 1997

CERTIFIED MAIL

RETURN RECEIPT NO. Z-357-869-901

Mr. John A. Miller
Schlumberger Oilfield Services
300 Schlumberger Drive
Sugar Land, Texas 77478

**RE: Discharge Plan GW-114 Renewal
Artesia Facility
Eddy County, New Mexico**

Dear Mr. Miller:

The ground water discharge plan GW-114, for the Dowell Schlumberger facility located in the S1/2 SW1/4 of Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the original discharge plan as approved December 2, 1992, and the discharge plan renewal application dated July 29, 1997. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 10 working days of receipt of this letter.**

The discharge plan was submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is approved pursuant to Section 3109.A. Please note Sections 3109.E and 3109.F., which provide for possible future amendments or modifications of the plan. Please be advised that approval of this plan does not relieve Dowell Schlumberger Oilfield Services of liability should operations result in pollution of surface water, ground water, or the environment.

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

Mr. John A. Miller
November 25, 1997
Page 2

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

Pursuant to Section 3109.G.4., this plan is for a period of five years. This approval will expire on December 1, 2002, and Dowell Schlumberger Oilfield Services should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan renewal.

The discharge plan renewal application for the Dowell Schlumberger Oilfield Services Artesia Facility is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50 plus a flat fee equal to one-half of the original flat fee. The OCD has received the filing fee.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

William J. LeMay
William J. LeMay
Director

WJL/wjf
Attachment

xc: OCD Artesia District Office

Z 357 869 901

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
<i>John A. Miller</i>	
Street & Number	
<i>300 Schlumberger Drive</i>	
Post Office, State, & ZIP Code	
<i>Daguerre, TX</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	

PS Form 3800, April 1995

ATTACHMENT TO THE DISCHARGE PLAN GW-114 RENEWAL
DOWELL SCHLUMBERGER OILFIELD SERVICES
ARTESIA FACILITY
DISCHARGE PLAN APPROVAL CONDITIONS
(November 25, 1997)

1. Payment of Discharge Plan Renewal Fees: The \$50.00 filing fee has been received. A flat fee for service company facilities is equal to one-half of the original flat fee.
2. Dowell Schlumberger: Dowell Schlumberger Oilfield Services will abide by all commitments submitted in the discharge plan application dated July 29, 1997.
3. Waste Disposal: All wastes shall be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous by characteristics may be disposed of at an OCD approved facility upon proper waste characterization per 40 CFR Part 261.
4. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
5. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
7. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
8. Labeling: All tanks, drums and containers should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.

9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
10. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
11. Class V Wells: Leach fields and other wastewater disposal systems at OCD regulated facilities which inject fluid other than domestic waste sewage below the surface are considered Class V injection wells under the EPA UIC program. All class V wells will be closed unless, it can be demonstrated that protectable groundwater will not be impacted in the reasonably foreseeable future. Class V wells must be closed through the Santa Fe Office. The OCD allows industry to submit closure plans which are protective of human health, environment and groundwater as defined by the WQCC, and are cost effective.
12. Housekeeping: All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.
13. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Aztec District Office.
14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
15. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

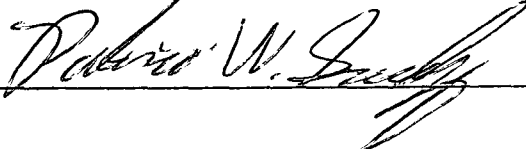
16. Certification: Dowell Schlumberger Oilfield Services, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Dowell Schlumberger Oilfield Services further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

DOWELL SCHLUMBERGER OILFIELD SERVICES

by _____
Title

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone	☐ Personal	Time	Date 10-4-96
<u>Originating Party</u>		<u>Other Parties</u>	
Pat Sanchez - OCD		Baird Swanson NMED, GWPRB.	
<u>Subject</u> DS, Artesia GW-114 - Groundwater investigation chlorinated solvents			
<u>Discussion</u> ① Asked Baird if there was any other Administrative Correspondence from NMED, GWPRB other than the two letters I have - i.e. Sep. 8, 1994 from Nancy Leavitt and Feb. 16, 1995 from Dennis McQuillan, Baird said that these were the only letters sent from NMED, GWPRB to Donnell Schlumberger. Baird also said that the chlorinated solvent plume had not yet been fully delineated - I told him I had made the same observation.			
<u>Conclusions or Agreements</u>			
Thanked Mr. Swanson for his time - he offered to send me some technical information on SVE construction/operation, I told him that would be helpful.			
<u>Distribution</u> File,		Signed 	



State of New Mexico
ENVIRONMENT DEPARTMENT
Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-2850

MARIA
SECR.

GARY E. JOHNSON
GOVERNOR

EDGAR T. THORN
DEPUTY SECRETARY

February 16, 1995

NMED,
GWPRB
Correspondence.

John A. Miller
Environmental Remediation Manager
Dowell Schlumberger Incorporated
P.O. Box 4378
Houston, Texas 77210-4378

**RE: APPROVAL FOR SOIL VAPOR EXTRACTION SYSTEM EXPANSION AND
ADDITIONAL INVESTIGATION WORK PLANS AT THE DOWELL SCHLUMBERGER
FACILITY, ARTESIA, NEW MEXICO.**

Dear Mr. Miller:

The Remediation Section of the Ground Water Protection and Remediation Bureau of the New Mexico Environment Department (NMED) has completed its reviews of the work plans for performing additional investigation and for expansion of the soil vapor extraction system (SVES), dated November 28, 1994 and January 11, 1995, respectively. NMED grants approval for both work plans pursuant to New Mexico Water Quality Control Commission (WQCC) regulation 1-203.

As discussed with Dowell Schlumberger (DS), the proposed SVES expansion, which addresses remediation of off-site contamination, is considered an interim corrective action at this point, since the investigation to define the furthest off-site extent of ground water contamination emanating from the facility is on going.

NMED also understands that difficulties in securing access to private land down-gradient from the facility, for the purpose of installing monitor wells, has forced DS to locate these off-site wells on publicly-owned right-of-way property. Although this provides limited flexibility in placement of wells, DS has communicated to NMED that it will locate the wells as close to the down-gradient vector emanating from the northeast corner of the facility as possible. Doing so will minimize the number of down-gradient wells necessary to characterize the off-site expression of the contaminant plume. Please be advised that it is the intent of NMED to require that DS ultimately pursue the down-gradient contamination to fully define the extent of concentrations above WQCC standards.

Mr. John Miller
Page -2-
February 16, 1995

Please notify NMED at least five working days prior to any planned field activities so that we may be present to observe and obtain split samples. Should you have any questions regarding this letter, please contact Mr. Jeff Walker of my staff at (505) 841-9466. Your continued voluntary cooperation in this matter is greatly appreciated.

Sincerely,

Dennis McQuillan

Dennis McQuillan, Program Manager
Remediation Section
Ground Water Protection and Remediation Bureau

DM/JW

cc: Garrison McCaslin, NMED District IV Manager
Tony Moreland, USTB
File-District I
Ronald M. Eddy
 Sherman & Howard L.L.C.
 First Interstate Tower North
 633 17th St., Suite 3000
 Denver, CO 80202
Marcy Leavitt, Chief, GWPRB

FILE COPY

<copy>

September 8, 1994



STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

John A. Miller
Environmental Remediation Manager
Dowell Schlumberger Incorporated
P.O. Box 4378
Houston, Texas 77210-4378

**RE: NOTIFICATION OF REGULATED DISCHARGE, DOWELL
SCHLUMBERGER INCORPORATED FACILITY, ARTESIA, NEW
MEXICO.**

Dear Mr. Miller:

The Remediation Section of the Ground Water Protection and Remediation Bureau (GWPRB) of the New Mexico Environment Department (NMED) has completed its review of ground water monitoring data supplied to us through your office as part of the ongoing UST Bureau site investigation and remediation. The GWPRB understands that a UST removal action and soil and ground water investigations have led to a soil vapor extraction system (SVES) recently being installed at the Dowell Schlumberger (DS) facility to address the remediation of petroleum hydrocarbon contaminants (BTEX) associated with the former USTs. While the SVES will address BTEX contamination in the on-site soils and ground water, the GWPRB is very concerned about the off-site, down-gradient monitor wells which continue to show chlorinated solvents at concentrations significantly above New Mexico Water Quality Control Commission (WQCC) regulation standards. This letter shall serve as Notification of Discharge applicable under WQCC regulation 1-203.

Bruce King
Governor

Judith M. Espinosa
Secretary

Ron Curry
Deputy Secretary

.....

Harold Runnels Building
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502
(505) 827-2850
FAX (505) 827-2836



Mr. John A. Miller
Page -2-
September 8, 1994

Recent ground water monitoring data indicates that, while the SVES appears to be having a positive affect on remediation of on-site BTEX contamination, it is not affecting chlorinated solvent contamination in ground water down-gradient and off-site of the facility. WQCC regulation 1-203.A.6 requires that DS submit to GWPRB a preliminary Corrective Action Plan. An approvable plan will include, at a minimum, a proposal to investigate, monitor and remediate the chlorinated solvent plume emanating from the DS facility.

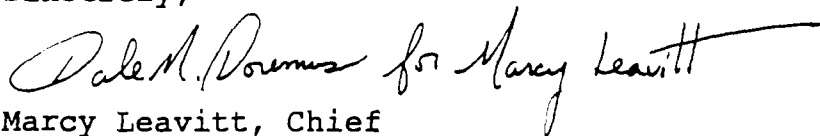
DS must submit a corrective action plan to GWPRB within 45 days of receipt of this letter which addresses the following:

- 1) A plan to: a) define the horizontal and vertical extent and magnitude of chlorinated solvent ground water contamination, b) quarterly monitor contamination identified by the investigation and c) design and implement ground water remediation both on and off-site.
- 2) Water supply well inventory down-gradient from the site within a 2-mile radius.
- 3) Proposed schedule of implementation of above items.

Monitoring and reporting on a quarterly basis may be combined with on-going UST submittals to avoid duplication of effort in the future.

Please notify NMED at least five working days prior to any planned field activities so that we may be present to observe and obtain split samples. Should you have any questions regarding this letter, please contact Mr. Jeff Walker of my staff at (505) 841-9466. Your continued voluntary cooperation in this matter is greatly appreciated.

Sincerely,



Marcy Leavitt, Chief
Ground Water Protection and Remediation Bureau

ML/JW/jw

cc: Garrison McCaslin, NMED District IV Manager
Dennis McQuillan, Remediation Section Manager
Coby Muckelroy, HRMB
Tony Moreland, USTB
Ronald M. Eddy



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

December 2, 1992

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-242-147

Mr. Richard B. Connell
Dowell Schlumberger, Inc.
500 East Richey
Artesia, New Mexico 88210

RE: Discharge Plan GW-114
Artesia Service Facility
Eddy, New Mexico

Dear Mr. Connell:

The groundwater discharge plan GW-114 for the Dowell Schlumberger, Inc. Artesia Service Facility located in the SE/4 SE/4, Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico is **hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the application dated August 14, 1992.

The discharge plan was submitted pursuant to Section 3-106 of the Water Quality Control Commission Regulations. It is approved pursuant to section 3-109.A. Please note Section 3-109.F., which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters or the environment which may be actionable under other laws and/or regulations.

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

Please note that section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with

Mr. Richard B. Connell
December 2, 1992
Page -2-

the terms and conditions of the plan". Pursuant to Section 3-107.c. you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3-109.g.4., this plan approval is for a period of five years. This approval will expire ~~August 19~~, 1997 and you should submit an application for renewal in ample time before that date.

pnf
Expires December 2, 1997 10-17-96

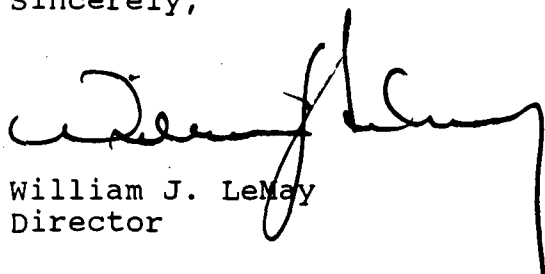
The discharge plan application for the Dowell Schlumberger, Inc. Farmington Service Facility is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of fifty (50) dollars plus the flat rate of thirteen hundred and eighty (1380) dollars for service companies.

The OCD has received your \$50 filing fee. The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.

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

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,



William J. LeMay
Director

WJL/rca

xc: OCD Artesia Office

ATTACHMENT TO DISCHARGE PLAN GW-114 APPROVAL
DOWELL SCHLUMBERGER, INC. ARTESIA SERVICE FACILITY
DISCHARGE PLAN REQUIREMENTS
(December 2, 1992)

1. Drum Storage: All drums will be stored on pad and curb type containment.
2. Sump Inspection: All sumps at this facility will be cleaned and visually inspected on an annual basis. Any new sumps or below-grade tanks will be approved by the OCD prior to installation and will incorporate leak detection in their designs.
3. Tank Berming: All tanks that contain materials other than fresh water that, if released, could contaminate surface or ground water or the environment will be bermed to contain one and one third times the capacity of the tank.
4. Spills: All spills and/or leaks will be reported to the OCD district office pursuant to WQCC Rule 1-203 and OCD Rule 116.
5. Modifications: All proposed modifications that include the construction of any below grade facilities or the excavation and disposal of wastes or contaminated soils will have OCD approval prior to excavation, construction or disposal.

November 25, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. Z-357-869-901

Mr. John A. Miller
Schlumberger Oilfield Services
300 Schlumberger Drive
Sugar Land, Texas 77478

**RE: Discharge Plan GW-114 Renewal
Artesia Facility
Eddy County, New Mexico**

Dear Mr. Miller:

The ground water discharge plan GW-114, for the Dowell Schlumberger facility located in the S1/2 SW1/4 of Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, is **hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the original discharge plan as approved December 2, 1992, and the discharge plan renewal application dated July 29, 1997. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 10 working days of receipt of this letter.**

The discharge plan was submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is approved pursuant to Section 3109.A. Please note Sections 3109.E and 3109.F., which provide for possible future amendments or modifications of the plan. Please be advised that approval of this plan does not relieve Dowell Schlumberger Oilfield Services of liability should operations result in pollution of surface water, ground water, or the environment.

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

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

Pursuant to Section 3109.G.4., this plan is for a period of five years. This approval will expire on December 1, 2002, and Dowell Schlumberger Oilfield Services should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan renewal.

The discharge plan renewal application for the Dowell Schlumberger Oilfield Services **Artesia Facility** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50 plus a flat fee equal to one-half of the original flat fee. The OCD has received the filing fee.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

William J. LeMay
Director

WJL/wjf
Attachment

xc: OCD Artesia District Office

ATTACHMENT TO THE DISCHARGE PLAN GW-114 RENEWAL
DOWELL SCHLUMBERGER OILFIELD SERVICES
ARTESIA FACILITY
DISCHARGE PLAN APPROVAL CONDITIONS
(August 12, 2002)

1. Payment of Discharge Plan Renewal Fees: The \$50.00 filing fee has been received. A flat fee for service company facilities is equal to one-half of the original flat fee.
2. Dowell Schlumberger: Dowell Schlumberger Oilfield Services will abide by all commitments submitted in the discharge plan application dated July 29, 1997.
3. Waste Disposal: All wastes shall be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous by characteristics may be disposed of at an OCD approved facility upon proper waste characterization per 40 CFR Part 261.
4. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
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OCD prior to installation or upon modification and must incorporate secondary containment
and leak-detection into the design. All pre-existing sumps and below-grade tanks must
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ensure proper operation and to prevent overtopping or system failure.
13. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC
1203 to the OCD Aztec District Office.
14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership,
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15. Closure: The OCD will be notified when operations of the facility are discontinued for a
period in excess of six months. Prior to closure of the facility a closure plan will be submitted
for approval by the Director. Closure and waste disposal will be in accordance with the
statutes, rules and regulations in effect at the time of closure.

16. Certification: Dowell Schlumberger Oilfield Services, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Dowell Schlumberger Oilfield Services further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

DOWELL SCHLUMBERGER OILFIELD SERVICES

by _____
Title

Schlumberger

August 8, 2002

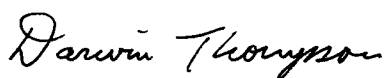
Mr. Jack Ford
State of New Mexico
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Dear Mr. Ford

Enclosed is a cashier's check for the amount of \$100.00 made out to NMED Water Quality Bureau. The check is for the renewal application fee for GW 114 Ground Water Discharge Permit renewal application for Schlumberger's Artesia facility sent to you under separate cover. If you have any questions or concerns, please do not hesitate to contact me at 505 748 1392.

Sincerely,

Darwin Thompson



Facility Manager
Hobbs and Artesia Operating Centers

Enclosures: 1

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 8-8-02
or cash received on 8-13-02 in the amount of \$ 100.00
from Darwin Thompson
for GW 114 Schlumberger Artesia Facility
(Facility Name)
Submitted by: Martyn Kichling Date: 8-13-02 (DP No.)
Submitted to ASD by: Martyn Kichling Date: 8-13-02
Received in ASD by: _____ Date: _____
Filing Fee _____ New Facility _____ Renewal _____
Modification _____ Other Renewal Application Fee (Applicable)
Organization Code 521.07 Applicable FY 2002

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

THE FACE OF THIS DOCUMENT HAS A COLORED BACKGROUND - NOT A WHITE BACKGROUND



P.O. Box AA
Artesia, NM 88211-7526
(505) 746-8000

Artesia - Hobbs - Las Cruces - Roswell

No. [REDACTED]

95-43
1122

DARWIN THOMPSON

REMITTER

08-08-02

PAY TO THE ORDER OF ****N.M.E.D. WATER QUALITY BUREAU****

\$ **** 100.00****

PAY THE SUM OF

CASHIER'S CHECK

NOTICE TO CUSTOMERS: THE PURCHASE OF AN INDEMNITY BOND WILL BE
REQUIRED BEFORE ANY OFFICIAL CHECK OF THIS BANK WILL BE REPLACED
OR REFUNDED IN THE EVENT IT IS LOST, MISPLACED, OR STOLEN.

[Signature]
AUTHORIZED SIGNATURE
OVER \$100,000 REQUIRES TWO SIGNATURES

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

Schlumberger

July 31, 2002

RECEIVED

AUG 06 2002

Environmental Bureau
Oil Conservation Division

Mr. Jack Ford
State Of New Mexico
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, Nm 87505

Dear Mr. Ford,

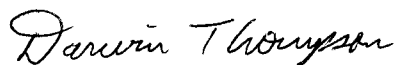
Enclosed is our renewal application for Ground Water Discharge Permit GW114 for the Well Services Division of Schlumberger Technology Corporation's Artesia Facility (formerly Dowell). The required check for the application fee in the amount of \$100.00 was forwarded directly to Ms. Mary Archuleta in the NM Air Quality Bureau. If she has not contacted you, her phone number is 955-8064. The check number 3190394 is dated 7/17/02.

One copy of this permit renewal application has been forwarded to the NMOCD Artesia District office.

If you have any questions regarding this application, please feel free to contact me at 505 748 1392.

Sincerely,

Darwin Thompson



Facility/Environmental Manager

Enclosures:

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**

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

☐ New ☒ Renewal ☐ Modification

1. Type: Oil field Pumping Service
2. Operator: Well Services Division of Schlumberger Technology Corp.
Address: 507 E. Richey, Artesia, N.M. 88210
Contact Person: Darwin Thompson Phone: 505 748 1392
3. Location: S 1/2 14 SW 1/4 Section 4 Township 17S Range 26E
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 Environmental Mgr.

Signature: Darwin Thompson

Date: 7-31-02

**DISCHARGE PLAN GW-114
FOR SCHLUMBERGER WELL SERVICES
507 EAST RICHEY
ARTESIA, NEW MEXICO
RENEWAL APPLICATION
7/29/02**

4. Landowner: Well Services Division of Schlumberger Technologies Corporation
(Formerly Dowell)
507 East Richey
PO Box 300
Artesia, New Mexico 88210
505 748 1392
Contact Person: Darwin Thompson,
Facility/Environmental Manager
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 1400 gallons.
 - B. Sludge from truck wash bay consists of mud and soil that is removed from trucks and equipment during the washing process. Average daily volume is 0.15 cubic feet.
 - C. Used engine oil is collected for recycling in the truck maintenance shop. Average daily volume is 15 gallons.
 - D. Used oil filters from the truck maintenance shop are collected for recycling. Average daily volume is 8 pounds.
 - E. Cement residue is generated from cleaning of cups and other equipment used in the testing of cement samples in the cement testing area. Average daily volume is 0.29 cubic feet.
 - F. Used floor sweep is generated in the truck maintenance area in the process of covering and cleaning oil spills on the shop floor. Average daily volume is 15 pounds.
 - G. Parts solvent is used during the cleaning of excess grease and oil from truck and equipment parts during the repair process. Average daily volume is 0.5 gallons.
 - H. Office trash, paper, sacks and miscellaneous waste are generated from the offices and the bulk cement loading area. Average daily volume is 500 pounds.
 - I. On very rare occasions, various chemicals or mixtures of chemicals may be stored or generated on site, which are disposed of as a waste material. These chemicals are not useable because they do not meet specifications or are blended incorrectly. These chemicals vary in content and may be either hazardous or non-hazardous. If they are determined to be hazardous it is usually because of either Ph or flash point.

8. Liquid and solid waste collection and treatment procedures are as follows:
 - A. Truck wash bay water is treated by transferring water through two double-lined steel mud-settling pits to remove silt and other solids. The water then passes through an above ground steel oil separator, which is located inside a secondary containment, to remove oil and other hydrocarbons before wastewater is sent via city sewer lines to Artesia municipal sewer treatment facility.
 - B. Mud and sludge from the truck wash bay is collected in two double-lined steel mud-settling pits and then transferred to a 20-yard roll-off bin. It is then analyzed prior to disposal at CRI Incorporated; Hobbs New Mexico, which is an OCD approved landfill disposal facility.
 - C. Used engine oil is collected from the truck shop and stored in above ground steel tanks enclosed in a secondary steel containment. The oil is then transported by ProCycle Oils Incorporated of Springtown, Texas for treatment and recycling.
 - D. Used oil filters are collected in plastic reseal-able drums, which are picked up by ProCycle Oils Incorporated of Springtown, Texas for recycling.
 - E. The cement residue from the cement testing facility is collected in a settling trap and sent to CRI Incorporated; Hobbs, New Mexico, which is an OCD approved landfill disposal site.
 - 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 CRI Incorporated; Hobbs New Mexico, which is an OCD approved landfill disposal facility.
 - G. Used parts cleaning solvent is collected in 20-gallon drums in the parts washing systems. The contractor, Safety Kleen Incorporated; of Midland Texas, exchanges the collection drums from the parts washers and the used solvent is recycled.
 - H. Office trash and sacks from the bulk cement loading area are collected in either plastic trashcans in the office, or dumpsters supplied by the City of Artesia in the bulk cement loading area. This waste paper material is transported by the City of Artesia to the city landfill.
 - I. Chemicals, which do not meet specifications or that are no longer usable are stored in either drums or tote tanks in an area with secondary containment. Upon their classification as either hazardous or non-hazardous through a comprehensive analysis program, these chemicals are then disposed of through a reputable disposal company. Our preferred vendor for disposing of these wastes is Ashland Environmental Services in Dallas Texas. The end destination of these materials will vary depending upon their contents. The chemicals that are flammable are typically disposed of as burner fuel through an approved incinerating facility. Other chemicals may be treated and disposed of in an approved landfill facility.
9. There are no proposed modifications to the collection/treatment/disposal systems at the Artesia Facility at this time. If changes do become necessary, the plans will be submitted to the NMOCD for approval prior to initiating construction.

10. A routine inspection form is included in the enclosed Spill Prevention Control and Countermeasures Plan (Attachment 4) on page 22 as Attachment 4 of the plan and on page 27 as Attachment 9 of the plan.

11. A spill contingency plan is included in the attached (Attachment 4) SPCC plan, specifically in section 4.0 on page 13. Spill reporting and cleanup instructions are included on pages 23-26 as Attachments 5-8 of the SPCC plan.

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

Ground water beneath the Artesia facility is found from 17-19 feet from the ground surface as determined from monitoring well installations on site. Static water levels in the monitoring wells on site range from 12-17 feet below the top of the casing measuring point. Water level data is presented in Table1 of Attachment 5. A potentiometric surface map utilizing the most recent water levels is provided in Figure 1.

Ground water samples have been collected and analyzed for major cations and anions by Energy Laboratories of Casper, Wyoming. The results are presented in Table2 of Attachment 5. A summation of the cations and anions provides a total dissolved solids range of 2800-8600 mg/L.

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

July 10, 2002

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 9079

Mr. John Miller
Schlumberger Oilfield Services
14019 S.W. Freeway,
Suite 301, PMB187
Sugar Land, Texas 77478

RE: Discharge Plan Renewal Notice

Dear Mr. Miller:

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

GW-114 expires 12/1/2002 – Artesia Service Facility

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

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

Mr. John Miller
July 10, 2002
Page 2

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

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

Sincerely,

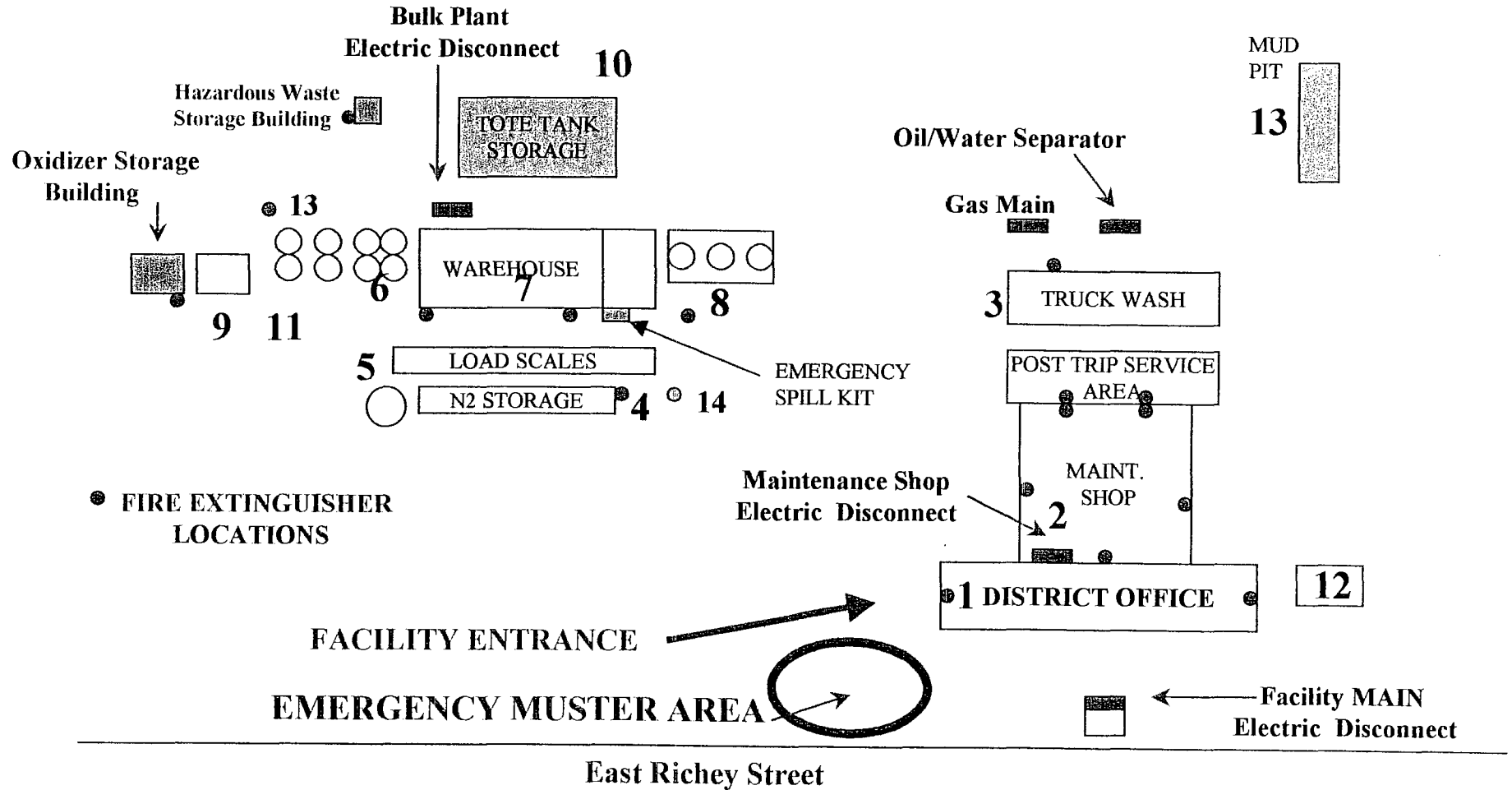
Roger C. Anderson
Oil Conservation Division

RCA/wjf

cc: OCD Artesia District Office

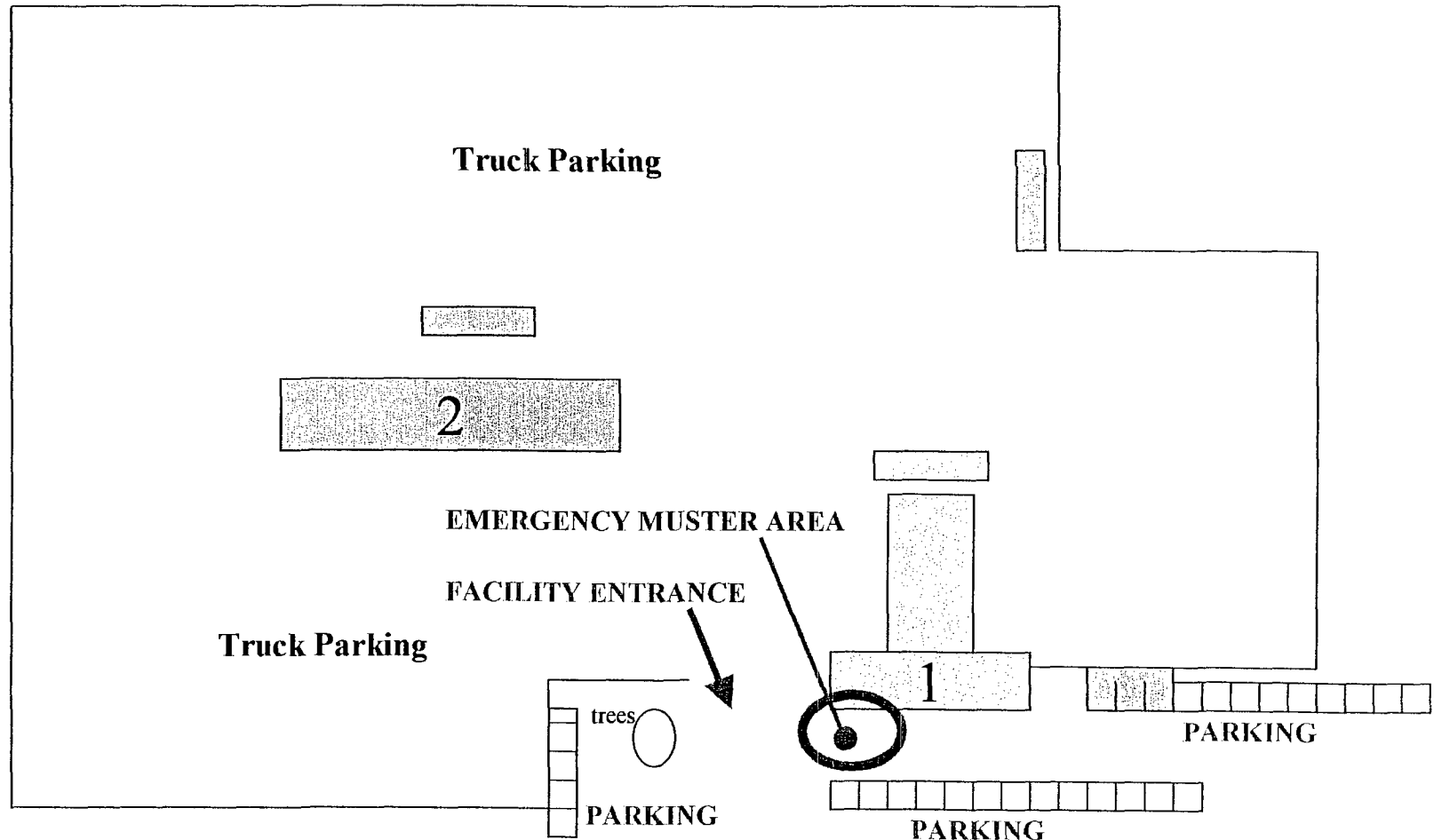
FACILITY MAP
ATTACHMENT 1

ARTESIA DISTRICT



- | | | | |
|-----------------------|-------------------------|---------------------|------------------------|
| • 1- Dispatch | 2- Maintenance Shop | 3- Truck Wash | 4-N2 Storage |
| • 5- Load Scales | 6- Cement Storage Silos | 7- Cement Warehouse | 8- HCL and gel Storage |
| • 9- Oxidizer Storage | 10- Tote Storage | 11- Cement Samples | 12- Handicap Parking |
| • 13- Fire Hydrant | 14- Shutoff for N2 pump | | |

ARTESIA DISTRICT



EAST RICHEY STREET

- 1. DISTRICT OFFICE & MAINTENANCE SHOP
- 2. CEMENT / BULK / HCL STORAGE

LIST OF MATERIALS
STORED AT FACILITY
ATTACHMENT 2

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	A26	Xylene	Flamm.	4
2	A166	Corrosion inhibitor	Flamm.	
3	A179	Acid	Corr.	
4	A186	Corrosion inhibitor	Flamm.	
5	A201	Acid	Corr.	
6	A205	Corban 333	Flamm.	
7	A255	Hydrogen Sul.	Flamm.	
8	A261	Corrosion inhibitor	Flamm.	
9	A264	Inhibitor	Flamm.	
10	B28	Cement Additive	Not Regulated	
11	B34	Scale control	Not Regulated	
12	B53	Enchems-3000	Not Regulated	
13	B58	LT Breaker	ox'id.	
14	B60	Mutual solvent	Flamm.	
15	B69	Biocide	Toxic	
16	B80	Resin Activator	Flammable	
17	B094	Inhibitor	Toxic / Flamm.	
18	B124	Foaming Agent	Flamm.	
19	B142	Slurry Gel	Flamm.	

* 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	Not Reg.	Y
2	C129	150 Bridging Agent	Not Reg.	
3	D13	Retarder	Not Reg.	
4	D20	Bentonite Ex.	Not Reg.	
5	D24	Gilsonite Ex.	Not Reg.	
6	D29	Collophane Flakes	Not Reg.	
7	D31	Barite	Not Reg.	
8	D44	SALT Granulated	Not Reg.	
9	D42	Lost Circulation Addt.	Not Reg.	
10	D46	All Purpose anti foam	Not Reg.	
11	D47	Anti foam Agent	Not Reg.	
12	D49	TXI Lightweight	Not Reg.	
13	D53	Cement Agent	Not Reg.	
14	D59	Pre-sale Cement Systems	Not Reg.	
15	D60	Fluid loss Additive	Not Reg.	
16	D65	T.I.C	Not Reg.	
17	D66	Silica flour	Not Reg.	
18	D75	Silicate Add.	Not Reg.	
19	D79	Chemical wash	Corrosive	

* This list must be updated at least annually.

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

Schlumberger

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	N.R.	Y
2	D112	Fluid Loss Add.	N.R.	
3	D122A	Chemical Wash Coat	Corrosive	
4	D124	Litefil	N.R.	
5	D127	Fluid Loss Add.	N.R.	
6	D128	Attapulgate	N.R.	
7	D130	Quaster Flake	N.R.	
8	D132	Cement	N.R.	
9	D135	Stabilizer	N.R.	
10	D139	Fanned Cement additive	Flamm.	
11	D140	Low Temperature activator	N.R.	
12	D144	AntiFoam Agent	N.R.	
13	D145A	Low Temp. liquid activator	Toxic	
14	D147	XT Fresh Water	N.R.	
15	D149	XL Laminar	N.R.	
16	D151	Carbonate	N.R.	
17	D153	Hot setting Agent	N.R.	
18	D154	Low Temperature	N.R.	
19	D155	Liquid low temp.	N.R.	

* This list must be updated at least annually.

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

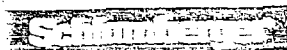
Schlumberger**HAZARDOUS CHEMICALS INVENTORY**☐ DOWELL PRODUCTS ☐ NON-DOWELL CHEMICALSCHEMICAL LOCATION: Artasia

* INVENTORY DATE: _____

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

* 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:

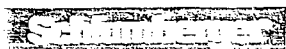
Artesia

* INVENTORY DATE:

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	F52	Foaming Agent	Flamm.	Y
2	F52.1	Foaming Agent	Flamm.	
3	F75N	Surfactant EzeFlo	Flamm.	
4	F78	Surfactant EzeFlo	Flamm.	
5	F99	Coupling Agent	N.R.	
6	F103	Surfactant EzeFlo	Flamm.	
7	F104	Foaming Agent	Flamm.	
8	F105	Multi-Turn Surfactant	Flamm.	
9	H36	Acid Hydrochloric 36%	corr.	
10	J66	Diverting Agent-LixAfrac	N.R.	
11	J66S	Salt	N.R.	
12	J84	Fluid loss Additive	N.R.	
13	J120	Friction Reducing Agent	N.R.	
14	J134	Breaker Enzyme	N.R.	
15	J134L	Breaker Enzyme	N.R.	
16	J164	Gelling Agent	N.R.	
17	J170	Plugging Agent	N.R.	
18	J218	Breaker	Oxidizer	
19	J227	Diverting Agent	N.R.	

* This list must be updated at least annually.

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



HAZARDOUS CHEMICALS INVENTORY

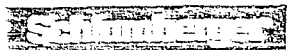
☐ DOWELL PRODUCTS ☐ NON-DOWELL CHEMICALSCHEMICAL LOCATION: Artesia

* INVENTORY DATE: _____

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

* 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

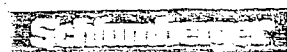
CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (Flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	J472	LCA Fluid loss Activator	Corrosive	Y
2	J475	Breaker EB Clean	Oxidizer	
3	J479	Breaker EB Clean	Oxidizer	
4	J486	Gelling Agent CMHPG	N.R.	
5	J491	Gelling Agent Water Conc.	N.R.	
6	J492	Cross linker	N.R.	
7	J501	PROPNET II	N.R.	
8	J506	Cross linker	Comb.	
9	J508 W	Clear Trac-Winterized	Flamm.	
10	J529	Oil Seeker	Flamm.	
11	J601	Cross linker	Corr.	
12	J602 L	pH Control Agent	N.R.	
13	J603	Breakers	N.R.	
14	J877-PB	Slurry BE Polymer	N.R.	
15	K416	Methanol	Flamm.	
16	K187	Catalyst	Corrosive	
17	K230 B	Resin Solution	Comb.	
18	K232	Thread locking Compound	N.R.	
19	K235 B	Curing Agent	N.R.	

* 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

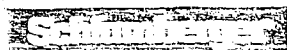
CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

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

* 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

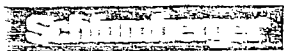
CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (Flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	P121	Solvent PARAN	Flamm	Y
2	P124	Inhibitor Liquid Paraffin	Flamm.	
3	S1	Calcium Chloride	N.B.	
4	S14	SAND 12-20 Mesh	N.B.	
5	S18	SAND 16-30	N.B.	
6	S20	SAND 20-40	N.B.	
7	S20	SAND 20-40	N.B.	
8	S36	SAND 8-16	N.B.	
9	S53	Liquid Calcium Chloride	N.B.	
10	S74	Proppant 16/30 Resin Curable	N.B.	
11	S74	Proppant 20/40 Resin Curable	N.B.	
12	S74 L	Proppant, Curable-Low Resin 12/20	N.B.	
13	S74 L	Proppant, Curable-Low Resin 16/30	N.B.	
14	S74 L	Proppant, Curable-Low Resin 20/40	N.B.	
15	S074 L	Proppant, Super LC 1220 Mesh	N.B.	
16	S074 L	Proppant, Super LC 1630 Mesh	N.B.	
17	S074 L	Proppant, Super LC 2040 Mesh	N.B.	
18	S074 L.3	Proppant CR4000	N.B.	
19	S074 L.3	Proppant CR4000 20/40 Mesh	N.B.	

* 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

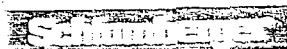
CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

	CHEMICAL OR DOWELL CODE	PRODUCT NAME	HAZARD CLASS (Flammable or corrosive etc.)	MSDS ON FILE (YES/NO)** OR DATE REQUESTED
1	S093	Proppant, Precured Resin	N.R.	Y
2	S093	Proppant, Precured Resin	N.R.	
3	S093	Proppant, Black Plus 20/40 Mesh	N.R.	
4	S093.1	Proppant, Black Plus 40/70 Mesh	N.R.	
5	S095	Proppant, Med Density ISP 24/40	N.R.	
6	S095	Proppant, Med Density ISP 30/60	N.R.	
7	S100	SAND 100 Mesh	N.R.	
8	S100	SAND 100 Mesh S100 Sacked	N.R.	
9	S105	Proppant, Low density ISP 24/40	N.R.	
10	S108	Proppant, High Strength Resin 16/30	N.R.	
11	S108	Proppant, High Strength Resin 20/40	N.R.	
12	S108.1	Proppant, Super DC 20/40 Mesh	N.R.	
13	S123	Proppant, Liquid Curing Agent	Flamm.	
14	S128	Proppant, Precured Low Resin 16/30	N.R.	
15	S128	Proppant, Precured Low Resin 20/40	N.R.	
16	S128.1	Proppant, Precured LC 20/40 Mesh	N.R.	
17	S128.2	Proppant, Tempered LC 16/30 Mesh	N.R.	
18	S128.2	Proppant, Tempered LC 20/40 Mesh	N.R.	
19	S138	Proppant, Ceramic 20/40	N.R.	

* 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

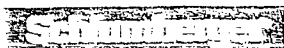
CHEMICAL LOCATION: _____

* INVENTORY DATE: _____

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

* 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	Flamm, C	
2	W053	Non Emulsifying Agent	Comb.	
3	W054	Non Emulsifying Agent	Flamm.	
4	W059	Surfactant	Flamm.	
5				
6				
7	XE905	Dev. Gelling Agent	Corr.	
8	XF941	Developmental	N.R.	
9	V001	Intensifier	Corr.	
10				
11				
12				
13				
14				
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.

Schlumberger

HAZARDOUS CHEMICALS INVENTORY

☐ DOWELL PRODUCTS ☒ NON-DOWELL CHEMICALS

CHEMICAL LOCATION: HOBBS 2017

* INVENTORY DATE: 10-8-01

	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	RANDI 40-46	"	
4		ANTI-FREEZE		
5	OIL	80-90W GEAR OIL	"	
6	OIL	SAE 30 MOTOR OIL	"	
7	PENETRATING LUBRICANT	ZEP-45	"	
8	PAINT	M.S. PAINT	"	
9	SILICONE	SILICONE	"	
10	STARTING FLUID	STARTING FLUID	"	
11	GASOLINE	GASOLINE	FLAMMABLE	
12	DIESEL	DIESEL	FLAMMABLE	
13	RODENTICIDE	RAT BAIT	POISON	
14	CONTACT CLEANER	TD Prod (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.

**WASTE STREAM
ANALYTICAL RESULTS
ATTACHMENT 3**



PHONE (915) 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: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/14/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: ARTESIA, NM

Sampling Date: 11/07/01
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

TCLP METALS

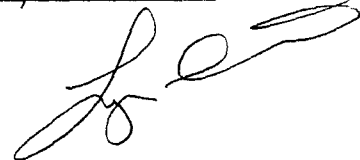
LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	11/12/01	11/13/01	11/13/01	11/13/01	11/13/01	11/13/01	11/13/01	11/13/01	11/13/01
EPA LIMITS:	5	5	100	1	5	5	0.2	1	
H6267-1 WASHBAY WATER	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1	
Quality Control	0.146	4.492	27.89	1.003	4.894	4.927	0.0042	0.158	
True Value QC	0.150	5.000	25.00	1.000	5.000	5.000	0.0040	0.150	
% Recovery	97.3	89.8	112	100	97.9	98.5	104	105	
Relative Percent Difference	1.7	0.1	1.8	0.9	0.2	0.4	4.3	0.8	

METHODS: EPA 1311, 600/4-79-C	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2	
-------------------------------	-------	-------	-------	-------	-------	-------	-------	-------	--


Chemist

11/15/2001
Date



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H6267M1.XLS



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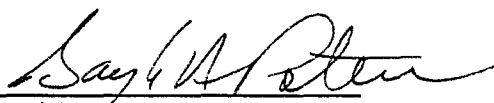
ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/14/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: ARTESIA, NM

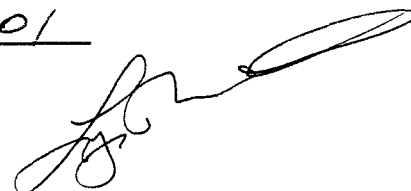
Analysis Date: 11/12/01
Sampling Date: 11/07/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H6267-3	WASH BAY SLUDGE	17800
H6267-4	FLOOR SWEEP	327000
Quality Control		242
True Value QC		240
% Recovery		101
Relative Percent Difference		1.2

METHOD: EPA 418.1


Chemist

11/15/2001
Date



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H6267T2.XLS



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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/14/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: ARTESIA, NM

Sampling Date: 11/07/01
Sample Type: SOLID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

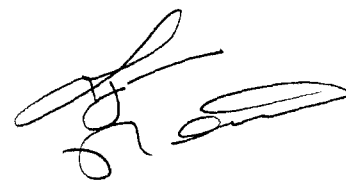
TCLP METALS

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

ANALYSIS DATE:	11/12/01	11/13/01	11/13/01	11/13/01	11/13/01	11/13/01	11/13/01	11/13/01	11/13/01
EPA LIMITS:	5	5	100	1	5	5	0.2	1	
H6267-2 USED OIL	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1	
H6267-3 WASHBAY SLUDGE	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1	
H6267-4 FLOOR SWEEP	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1	
H6267-5 PARTS SOLVENT	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1	
Quality Control	0.146	4.492	27.89	1.003	4.894	4.927	0.0042	0.158	
True Value QC	0.150	5.000	25.00	1.000	5.000	5.000	0.0040	0.150	
% Recovery	97.3	89.8	112	100	97.9	98.5	104	105	
Relative Percent Difference	1.7	0.1	1.8	0.9	0.2	0.4	4.3	0.8	

METHODS: EPA 1311, 600/4-79-02	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
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Chemist


Date 11/15/2001

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H6267M2.XLS



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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/14/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: ARTESIA, NM

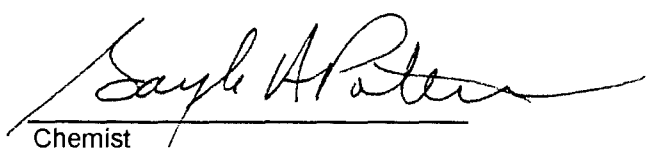
Sampling Date: 11/07/01
Sample Type: SOLID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH/HM/BC

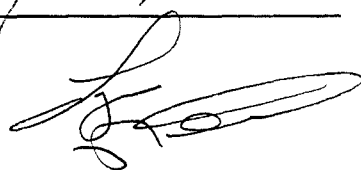
LAB NO. SAMPLE ID

	REACTIVITY			
	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)

ANALYSIS DATE:	11/12/01	11/12/01	11/12/01	11/13/01
H6267-3 WASH BAY SLUDGE	Not reactive	Not reactive	8.35	Nonflammable
H6267-4 FLOOR SWEEP	Not reactive	Not reactive	7.34	Nonflammable
Quality Control	NR	NR	7.01	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	100	NR
Relative Percent Difference	NR	NR	0.3	NR

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


Chemist

11/15/2001
Date


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H6267R2.XLS



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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-3
Sample ID: WASH BAY SLUDGE

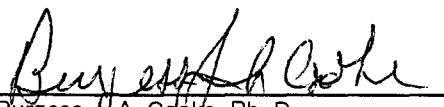
Analysis Date: 11/09/01
Sampling Date: 11/07/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6267-3	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.100	100	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.112	112	0.100
Chloroform	6.0	0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.085	85	0.100
Benzene	0.5	<0.005	<0.005	0.094	94	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.083	83	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	0.006	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.095	95	0.100
1,4-Dichlorobenzene	7.5	<0.005	0.007	0.098	98	0.100

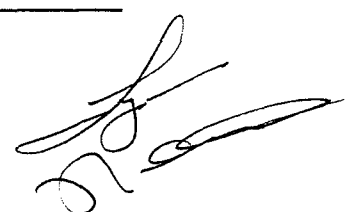
% RECOVERY

Dibromofluoromethane	89
Toluene-d8	87
Bromofluorobenzene	93

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph. D.

11/12/01
Date



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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-3
Sample ID: WASH BAY SLUDGE

Analysis Date: 11/09/01
Sampling Date: 11/07/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6267-3	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	0.014	0.026	52	0.050
o-Cresol	200	<0.020	<0.005	0.030	60	0.050
m, p-Cresol	200	<0.020	<0.005	0.028	56	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.030	60	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.035	70	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.038	76	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.043	86	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.039	78	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.041	82	0.050

% RECOVERY

Fluorophenol	23
Phenol-d5	17
Nitrobenzene-d5	63
2-Fluorobiphenyl	60
2,4,6-Tribromophenol	88
Terphenyl-d14	53

METHODS: EPA SW-846 1311, 8270, 3510


Burgess J. A. Copke, Ph. D.

11/12/01
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 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-1
Sample ID: WASH BAY WATER

Analysis Date: 11/09/01
Sampling Date: 11/07/01
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

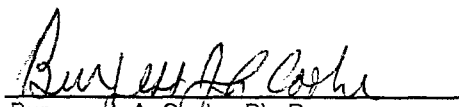
TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6267-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.016	32	0.050
1,4-Dichlorobenzene	7.50	<0.050	0.014	0.026	52	0.050
o-Cresol	200	<0.050	<0.005	0.030	60	0.050
m, p-Cresol	200	<0.050	<0.005	0.028	56	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.030	60	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.035	70	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.038	76	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.043	86	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.039	78	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

% RECOVERY

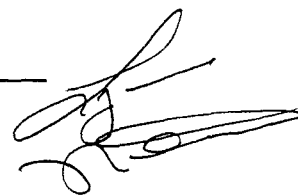
Fluorophenol	MI(15)
Phenol-d5	MI(23)
Nitrobenzene-d5	82
2-Fluorobiphenyl	77
2,4,6-Tribromophenol	69
Terphenyl-d14	73

METHODS: EPA SW-846 1311, 8270, 3510

NOTE: Matrix interference (MI) due to high levels of non-target analytes was observed.


Burgess, A. Cooke, Ph. D.

11/12/01
Date



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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-1
Sample ID: WASH BAY WATER

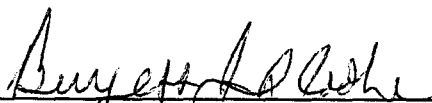
Analysis Date: 11/07/01
Sampling Date: 11/07/01
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6267-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.100	100	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.112	112	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.085	85	0.100
Benzene	0.5	<0.005	<0.005	0.094	94	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.083	83	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.095	95	0.100
1,4-Dichlorobenzene	7.5	<0.005	0.007	0.098	98	0.100

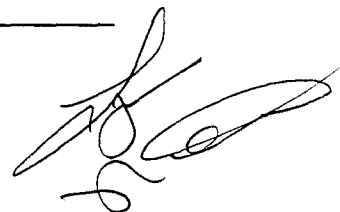
% RECOVERY

Dibromofluoromethane	106
Toluene-d8	106
Bromofluorobenzene	109

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph. D.

11/12/01
Date



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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-2
Sample ID: USED OIL

Analysis Date: 11/09/01
Sampling Date: 11/07/01
Sample Type: OIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6267-2	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	0.014	0.026	52	0.050
o-Cresol	200	<0.020	<0.005	0.030	60	0.050
m, p-Cresol	200	<0.020	<0.005	0.028	56	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.030	60	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.035	70	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.038	76	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.043	86	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.039	78	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.041	82	0.050

% RECOVERY

Fluorophenol	56
Phenol-d5	42
Nitrobenzene-d5	70
2-Fluorobiphenyl	74
2,4,6-Tribromophenol	119
Terphenyl-d14	62

METHODS: EPA SW-846 1311, 8270, 3510


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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-2
Sample ID: USED OIL

Analysis Date: 11/09/01
Sampling Date: 11/07/01
Sample Type: OIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6267-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.100	100	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.112	112	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.085	85	0.100
Benzene	0.5	0.006	<0.005	0.094	94	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.083	83	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.095	95	0.100
1,4-Dichlorobenzene	7.5	<0.005	0.007	0.098	98	0.100

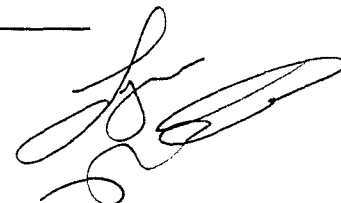
% RECOVERY

Dibromofluoromethane	97
Toluene-d8	100
Bromofluorobenzene	100

METHODS: EPA SW 846-8260, 1311


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ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-4
Sample ID: FLOOR SWEEP

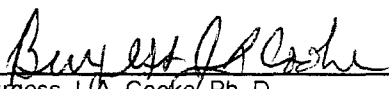
Analysis Date: 11/09/01
Sampling Date: 11/07/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6267-4	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	0.014	0.026	52	0.050
o-Cresol	200	<0.020	<0.005	0.030	60	0.050
m, p-Cresol	200	<0.020	<0.005	0.028	56	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.030	60	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.035	70	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.038	76	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.043	86	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.039	78	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.041	82	0.050

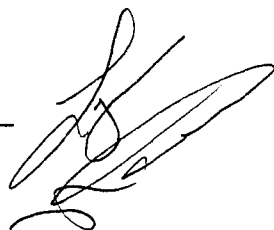
% RECOVERY

Fluorophenol	46
Phenol-d5	29
Nitrobenzene-d5	73
2-Fluorobiphenyl	66
2,4,6-Tribromophenol	92
Terphenyl-d14	60

METHODS: EPA SW-846 1311, 8270, 3510


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11/13/01
Date



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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-4
Sample ID: FLOOR SWEEP

Analysis Date: 11/09/01
Sampling Date: 11/07/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6267-4	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.100	100	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.112	112	0.100
Chloroform	6.0	0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.085	85	0.100
Benzene	0.5	<0.005	<0.005	0.094	94	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.083	83	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.095	95	0.100
1,4-Dichlorobenzene	7.5	<0.005	0.007	0.098	98	0.100

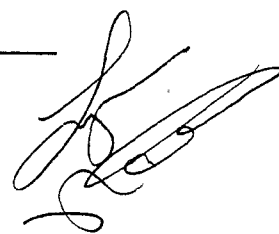
% RECOVERY

Dibromofluoromethane	83
Toluene-d8	83
Bromofluorobenzene	88

METHODS: EPA SW 846-8260, 1311


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11/13/01
Date



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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/12/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: NOT GIVEN
Lab Number: H6267-5
Sample ID: PARTS SOLVENT

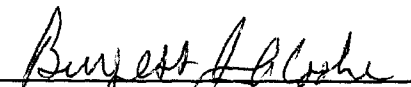
Analysis Date: 11/12/01
Sampling Date: 11/07/01
Sample Type: OIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6267-5	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.100	100	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.112	112	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.085	85	0.100
Benzene	0.5	<0.005	<0.005	0.094	94	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.083	83	0.100
Trichloroethylene	0.5	0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.095	95	0.100
1,4-Dichlorobenzene	7.5	<0.005	0.007	0.098	98	0.100

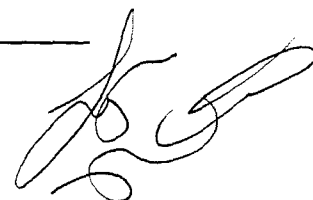
% RECOVERY

Dibromofluoromethane	102
Toluene-d8	105
Bromofluorobenzene	109

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke Ph. D.

11/12/01
Date



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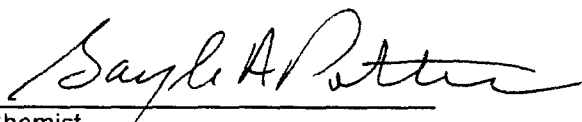
ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

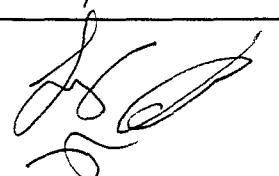
Receiving Date: 11/07/01
Reporting Date: 11/14/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: ARTESIA, NM

Sampling Date: 11/07/01
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH/BC

LAB NO. SAMPLE ID	REACTIVITY			
	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:	11/12/01	11/12/01	11/13/01	11/13/01
H6267-1 WASHBAY WATER	Not reactive	Not reactive	7.20	>140
H6267-2 USED OIL	Not reactive	Not reactive	7.29	>140
H6267-5 PARTS SOLVENT	Not reactive	Not reactive	7.32	>140
Quality Control	NR	NR	7.04	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	101	NR
Relative Percent Difference	NR	NR	0.4	NR

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


Chemist

11/15/2001
Date


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H6267R1.XLS



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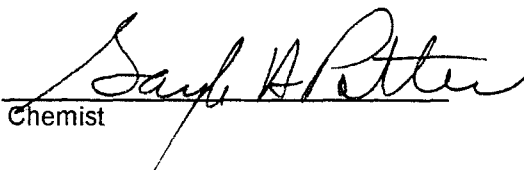
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ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/15/01
Project Number: 11-6-01
Project Name: ARTESIA YARD
Project Location: ARTESIA, NM

Sampling Date: 11/07/01
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH/BC

LAB NUMBER	SAMPLE ID	COD (mg/L)	FATS OIL & GREASE (mg/L)
ANALYSIS DATE:		11/14/01	11/14/01
H6267-1	WASH BAY WATER	891	581
Quality Control		311	93.8
True Value QC		300	100
% Recovery		104	93.8
Relative Percent Difference		7.7	11.9
METHODS: EPA 600/4-79-020		410.4	413.1


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H6267CF.XLS



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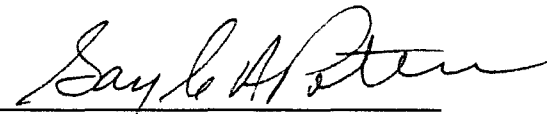
ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

Receiving Date: 11/07/01
Reporting Date: 11/14/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: ARTESIA, NM

Sampling Date: 11/07/01
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)
		11/13/01	11/13/01
H6267-1	WASH BAY WATER	2.63	19.5
Quality Control		14.5	15.6
True Value QC		15.0	15.0
% Recovery		96.5	104
Relative Percent Difference		0.7	2.3

METHOD: SW-846 8015 M


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11/15/2001
Date 

H6267T1.XLS

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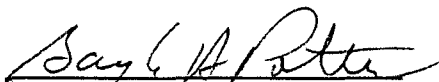
ANALYTICAL RESULTS FOR
SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 300
ARTESIA, NM 88210
FAX TO: (505) 748-2133

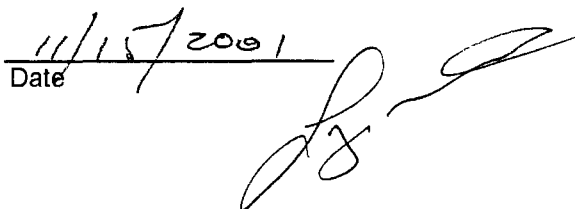
Receiving Date: 11/07/01
Reporting Date: 11/14/01
Project Number: NOT GIVEN
Project Name: ARTESIA YARD
Project Location: ARTESIA, NM

Analysis Date: 11/12/01
Sampling Date: 11/07/01
Sample Type: OIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H6267-2	USED OIL	1290000
H6267-5	PARTS SOLVENT	1390000
Quality Control		382
True Value QC		400
% Recovery		95.5
Relative Percent Difference		0.6

METHOD: EPA 418.1


Chemist


Date 11/15/2001

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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Page 1 of 1

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

SPILL PREVENTION
CONTROL AND COUNTERMEASURE
PLAN
ATTACHMENT 4

**Well Services Division of Schlumberger
Technology Corporation**

Artesia, New Mexico

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

June 20, 2002

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Attachment 10	Regulatory Cross-Reference Matrices

**Well Services Division of Schlumberger Technology Corporation
ARTESIA, NEW MEXICO**

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

1.0 INTRODUCTION

The management and personnel of Well Services a Division of Schlumberger Technology Corporation, at the Artesia, 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 that 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.

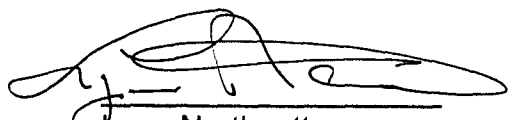
To handle a spill response effectively, this SPCC/RCRA plan provides descriptions of the duties to be performed by facility personnel; procedures to be followed; available equipment; and available outside resources.

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:



Lynn Northcutt
Location Manager

9/26/2001
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.

Rick Devell

Name

9/26/01

Date

Title

Registered Professional Engineer, State of WY

Registration No. 5274

2.0 GENERAL FACILITY INFORMATION

2.1 Brief Facility Description

Schlumberger in Artesia, 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 (1) 12,000 gallon HDPE tank for storage of a 36% Hydrochloric Acid solution, two (2) 500 gal. And three (3) 275 gallon steel oil storage tanks, one (1) 275 gallon steel antifreeze storage tank, one (1) 500 gallon steel used oil storage tank, one (1) 125 diesel steel storage tank, one (1) 125 gal. Steel gasoline storage tank, one (1) 500 gallon steel oil skimmer tank, one (1) 6,500 gallon steel slurry gel storage tank, one (1) 5,000 gallon steel fresh water tank, six (6) 330 gallon HPDE tote tanks for chemicals at the acid loading facility, one (1) 600 gallon HDPE soap storage tank at the wash bay facility and miscellaneous liquid chemicals stored in containers (drums, totes and pails) stored in the Tote Storage Area. 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. Hazardous wastes are stored in the Hazardous waste store building list on the plot plan. (Att. 2) 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...Northeast. The Artesia facility is located at 507 East Richey. A location map (Attachment 1) and a facility plot plan (Attachment 2) are included for reference.

2.2 Designated Contact

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

Schlumberger
P.O. Box 300
Artesia, New Mexico
505-748-1392

Schlumberger 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 Schlumberger will rely on RCRA and Occupational Safety and Health Administration (OSHA) trained personnel, either within the Company or contractors or both, to handle the cleanup process.

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 125 gallon storage tanks. A metal revetment encloses this tank and leaks would be contained within the revetment. A Schlumberger employee supervises the loading and unloading activities.
2. Acid is delivered by transport trucks and off-loaded into the (1) 12,000 gallon HDPE storage tank. A fiberglass revetment encloses the acid storage tanks 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. A Schlumberger employee supervises loading and unloading activities.
3. Slurry gel is delivered by transports and off-loaded into the 6,500 gallon. Steel tank. A fiberglass revetment encloses the tank and leaks would be contained within the revetment. A Schlumberger employee supervises loading and unloading activities.

4. Oil and antifreeze is delivered by commercial supplier and unloaded into the 500, 300 and 275 gallon steel tanks. A steel revetment encloses these tanks and leaks would be contained within the revetment. A Schlumberger employee supervises loading and unloading activities.
5. Commercial trucker unloads soap for the wash bay facility. A steel revetment encloses this 600 gallon HDPE tank and leaks would be contained within the revetment. A Schlumberger employee supervises loading and unloading activities.

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

A six foot high chain link fence encloses the entire facility. There are two gates that can be opened to allow access to the facility. The main vehicle entrance has a gate that is kept closed except to allow for entrance or exit from the facility. The walk through gate can be locked at any time. Both gates are either supervised, or kept in a closed and locked position when personnel are not present at the facility.

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 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.

Personnel who have completed OSHA/RCRA training will conduct hazardous waste handling operations. 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
- Valves
- 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 monthly 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. Trained personnel who are familiar with this facility will conduct the training annually. 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"

Schlumberger personnel training records are maintained in the facility master file, which is in the office. In accordance with 40 CFR 112.7(e)(10), Schlumberger 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-Schlumberger 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 an area 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/Schlumberger 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 Schlumberger contact for non-Schlumberger 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 Schlumberger 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).

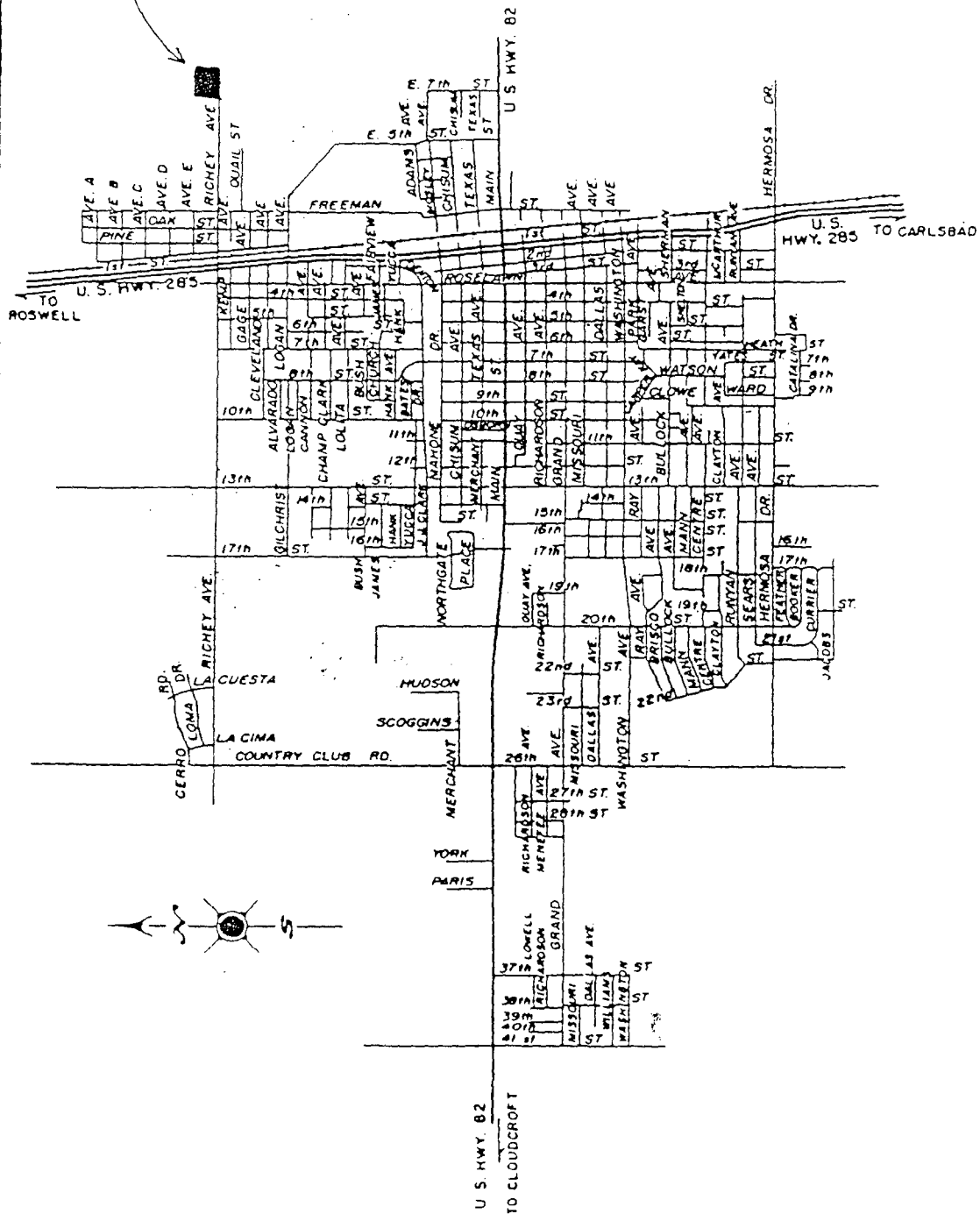
5.3 Plan Amendment

In the event that this facility has a reportable spill event, local Schlumberger Management will review the circumstances causing the event and determine if amendment of this plan is necessary. Every three years Schlumberger Management will review the SPCC plan for completeness. 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.

MAP OF ARTESIA NEW MEXICO

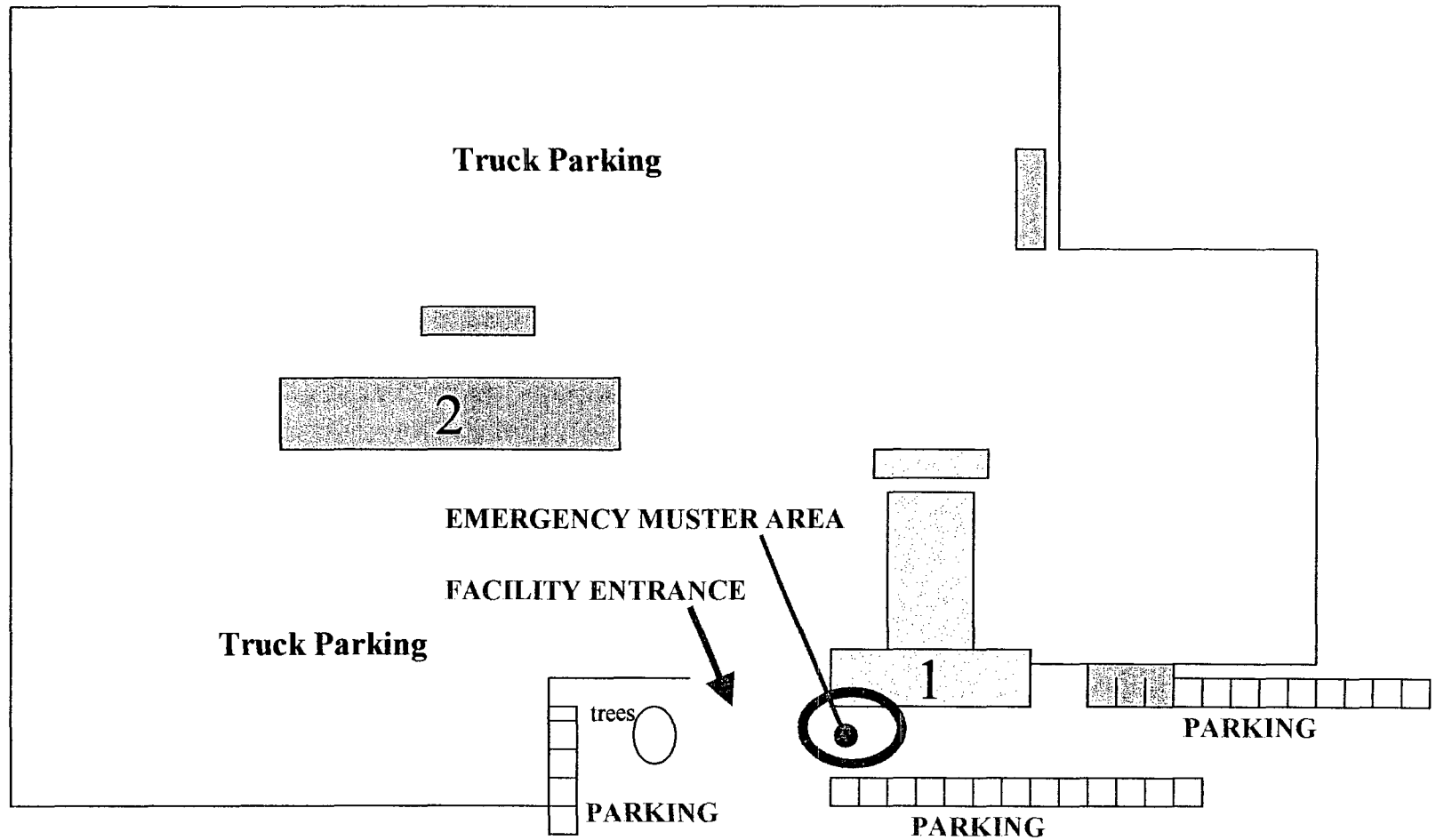
DOWELL
SCHLUMBERGER



ATTACHMENT 1

LOCATION MAP

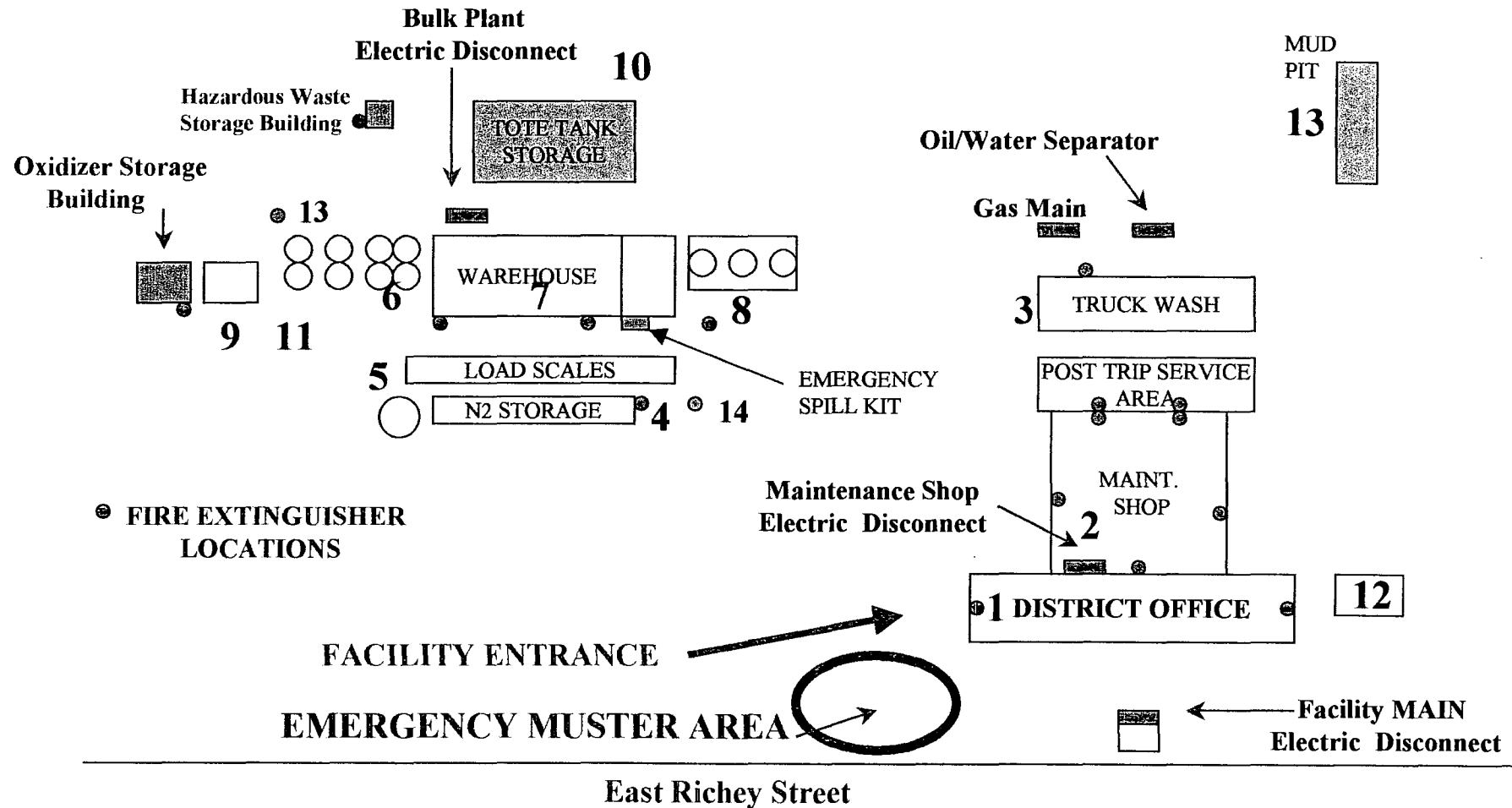
ARTESIA DISTRICT



EAST RICHEY STREET

- 1. DISTRICT OFFICE & MAINTENANCE SHOP
- 2. CEMENT / BULK / HCL STORAGE

ARTESIA DISTRICT



- | | | | |
|-----------------------|-------------------------|---------------------|------------------------|
| • 1- Dispatch | 2- Maintenance Shop | 3- Truck Wash | 4-N2 Storage |
| • 5- Load Scales | 6- Cement Storage Silos | 7- Cement Warehouse | 8- HCL and gel Storage |
| • 9- Oxidizer Storage | 10- Tote Storage | 11- Cement Samples | 12- Handicap Parking |
| • 13- Fire Hydrant | 14- Shutoff for N2 pump | | |

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>Capacity of Containment</u>	<u>Secondary Containment</u>
Diesel & Gasoline Storage tank	Rupture/Leak	250		Metal revetment
Hydrochloric acid tank	Rupture/Leak	12,000		Fiberglass Revetment
Oil & Antifreeze	Rupture/Leak	2,125		Metal revetment
Drum/Tote Storage area	Leak	6,000		Concrete Revetment
Used oil Storage tank	Rupture/Leak	500		Metal revetment
Soap, wax & cleaning solution	Rupture/Leak	1800		Metal Revetment
Skim oil tank	Rupture/Leak	500		Metal Revetment
Slurry Gel Tank	Rupture/Leak	6,500		Fiberglass Revetment

ATTACHMENT 4
ANNUAL TANK INSPECTION REPORT

<u>TANK DESCRIPTION</u>	<u>INSPECTION DATE</u>	<u>INSPECTED BY</u>	<u>REMARKS</u>
250 gal. Diesel & Gasoline Storage Tanks			
12,000 gal. HCL Acid Storage			
Oil & Antifreeze Storage Tanks			
Truck Wash Oil Skimmer Tank			
Soap, Wax & cleaning Solution Tanks			
Slurry Gel Storage Tank			

Note: Inspection must include:

- Integrity of joints¹
- Rusted areas
- Structural abnormalities
- Breathing vents condition
- Valves
- 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 Schlumberger 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>
Lynn Northcutt	505-748-1392	505-365-7510	505-748-9047
Darwin Thompson	505- 748-1392	505-910-2481	505-746-3834
Marvin Baum	505-748-1392	505-365-8570	505-746-0300

EMERGENCY ASSISTANCE TELEPHONE NUMBERS

FIRE Department	505-746-5051
POLICE Department	505-746-5000
AMBULANCE	505-746-5051
HOSPITAL Artesia General Hospital	505-746-2999

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

Oilfield Services Emergency Response Number	(281) 595 3518
---	----------------

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 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

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 absorbent 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)	Valves or other positive means should restrain drainage from diked storage areas.	3.3
112.7 (e)(1)(ii)	Valves used to drain diked storage areas are of manual open-and-closed design; storm water 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 catchments 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 is 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 Atch 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 minimum standards of the DOT.	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 Attach 5
265.52(e)	Detailed description of emergency equipment on-site	Attach 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 Attach 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 Attach 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)	Follow-up procedures	4.1, 4.3, 5.3
265.56(j)	Follow-up report	5.0

WATER TABLE
MEASUREMENTS AND ANALYSIS
ATTACHMENT 5

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-1	01/23/91	30.00	Protective Casing	100.56	17.41	83.15	
	09/13/91				16.04	84.52	1.37
	11/22/91				14.50	86.06	1.54
	03/16/93				13.72	86.84	0.78
	01/09/94				14.62	85.94	-0.90
	04/19/94				14.48	86.08	0.14
	07/20/94				14.38	86.18	0.10
	10/24/94				14.73	85.83	-0.35
	01/24/95				14.20	86.36	0.53
	04/02/95				14.37	86.19	-0.17
	07/31/95				14.76	85.80	-0.39
	10/16/95				14.64	85.92	0.12
	01/10/96				14.59	85.97	0.05
	04/09/96				14.77	85.79	-0.18
	07/20/96				15.84	84.72	-1.07
	10/21/96				14.07	86.49	1.77
	01/21/97				13.24	87.32	0.83
	04/08/97				12.97	87.59	0.27
MW-2	01/23/91	30.00	Protective Casing	99.56	16.95	82.61	
	09/13/91				15.01	84.55	1.94
	11/22/91				13.76	85.80	1.25
	03/16/93				13.16	86.40	0.60
	01/09/94				13.91	85.65	-0.75
	04/19/94				13.80	85.76	0.11
	07/20/94				13.65	85.91	0.15
	10/24/94				13.88	85.68	-0.23
	01/24/95				13.41	86.15	0.47
	04/02/95				13.67	85.89	-0.26
	07/31/95				13.81	85.75	-0.14
	10/16/95				13.78	85.78	0.03
	01/10/96				13.80	85.76	-0.02
	04/09/96				13.98	85.58	-0.18
	07/20/96				14.92	84.64	-0.94
	10/21/96				13.15	86.41	1.77
	01/21/97				12.41	87.15	0.74
	04/08/97				12.21	87.35	0.20
MW-3	01/23/91	30.00	Protective Casing	98.33	17.28	81.05	
	09/13/91				14.66	83.67	2.62
	11/22/91				13.63	84.70	1.03
	03/16/93				12.89	85.44	0.74
	01/09/94				13.66	84.67	-0.77
	04/19/94				NM	NM	NM
	07/20/94				13.18	85.15	na
	10/24/94				13.27	85.06	-0.09
	01/24/95				13.23	85.10	0.04
	04/02/95				13.60	84.73	-0.37
	07/31/95				13.34	84.99	0.26
	10/16/95				13.38	84.95	-0.04
	01/10/96				13.85	84.48	-0.47
	04/09/96				13.91	84.42	-0.06
	07/20/96				14.55	83.78	-0.64
	10/21/96				12.90	85.43	1.65
	01/21/97				12.42	85.91	0.48
	04/08/97				12.43	85.90	-0.01
MW-4	01/23/91	50.00	Protective Casing	103.18	20.17	83.01	
	09/13/91				18.54	84.64	1.63
	11/22/91				17.15	86.03	1.39
	03/16/93				16.49	86.69	0.66
	01/09/94				17.28	85.90	-0.79
	04/19/94				17.15	86.03	0.13
	07/20/94				16.99	86.19	0.16
	10/24/94				17.25	85.93	-0.26
	01/24/95				16.78	86.40	0.47
	04/02/95				16.98	86.20	-0.20
	07/31/95				17.26	85.92	-0.28
	10/16/95				17.01	86.17	0.25

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-4 Cont.	01/10/96				16.95	86.23	0.06
	04/09/96				17.15	86.03	-0.20
	07/20/96				18.08	85.10	-0.93
	10/21/96				16.28	86.90	1.80
	01/21/97				15.37	87.81	0.91
	04/08/97				15.14	88.04	0.23
MW-5	01/23/91	30.00	Protective Casing	99.87	17.20	82.67	
	09/13/91				15.52	84.35	1.68
	11/22/91				14.19	85.68	1.33
	03/16/93				13.47	86.40	0.72
	01/09/94				14.31	85.56	-0.84
	04/19/94				14.17	85.70	0.14
	07/20/94				13.97	85.90	0.20
	10/24/94				14.21	85.66	-0.24
	01/24/95				13.78	86.09	0.43
	04/02/95				14.05	85.82	-0.27
	07/31/95				14.17	85.70	-0.12
	10/16/95				14.07	85.80	0.10
	01/10/96				14.11	85.76	-0.04
	04/09/96				14.31	85.56	-0.20
	07/20/96				15.20	84.67	-0.89
	10/21/96				13.44	86.43	1.76
	01/21/97				12.69	87.18	0.75
	04/08/97				12.52	87.35	0.17
MW-6	01/23/91	35.00	Protective Casing	100.84	19.59	81.25	
	09/13/91				17.43	83.41	2.16
	11/21/91				16.30	84.54	1.13
	03/16/93				15.57	85.27	0.73
	01/09/94				16.42	84.42	-0.85
	04/19/94				16.29	84.55	0.13
	07/19/94				15.79	85.05	0.50
	10/24/94				15.83	85.01	-0.04
	01/24/95				15.94	84.90	-0.11
	04/02/95				16.38	84.46	-0.44
	07/31/95				15.88	84.96	0.50
	10/16/95				16.01	84.83	-0.13
	01/10/96				16.52	84.32	-0.51
	04/09/96				16.70	84.14	-0.18
	07/21/96				17.26	83.58	-0.56
	10/21/96				15.62	85.22	1.64
	01/21/97				15.21	85.63	0.41
	04/08/97				15.30	85.54	-0.09
MW-7	01/23/91	35.00	Protective Casing	100.23	19.01	81.22	
	09/13/91				17.43	82.80	1.58
	11/21/91				16.00	84.23	1.43
	03/16/93				14.91	85.32	1.09
	01/09/94				15.99	84.24	-1.08
	04/19/94				15.83	84.40	0.16
	07/19/94				15.24	84.99	0.59
	10/24/94				15.32	84.91	-0.08
	01/24/95				15.54	84.69	-0.22
	04/02/95				16.00	84.23	-0.46
	07/31/95				15.57	84.66	0.43
	10/16/95				15.61	84.62	-0.04
	01/10/96				16.13	84.10	-0.52
	04/09/96				16.30	83.93	-0.17
	07/21/96				16.81	83.42	-0.51
	10/21/96				15.15	85.08	1.66
	01/21/97				14.81	85.42	0.34
	04/08/97				14.91	85.32	-0.10
MW-8	01/23/91	35.00	Protective Casing	101.47	20.18	81.31	
	09/13/91				18.80	82.67	1.36
	11/21/91				17.29	84.18	1.51
	03/16/93				16.03	85.44	1.26
	01/09/94				17.23	84.24	-1.20

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-8 Cont.	04/19/94				17.05	84.42	0.18
	07/19/94				16.50	84.97	0.55
	10/24/94				16.56	84.91	-0.06
	01/24/95				16.79	84.68	-0.23
	04/02/95				17.24	84.23	-0.45
	07/31/95				16.94	84.53	0.30
	10/16/95				16.88	84.59	0.06
	01/10/96				17.38	84.09	-0.50
	04/09/96				17.54	83.93	-0.16
	07/21/96				18.10	83.37	-0.56
	10/21/96				16.40	85.07	1.70
	11/22/96				16.42	85.05	-0.02
	01/21/97				16.05	85.42	0.37
	04/08/97				16.11	85.36	-0.06
MW-9	01/26/91	30.00	Protective Casing	102.18	20.08	82.10	
	09/13/91				18.93	83.25	1.15
	11/21/91				17.35	84.83	1.58
	03/16/93				16.19	85.99	1.16
	01/09/94				17.31	84.87	-1.12
	04/19/94				17.33	84.85	-0.02
	07/19/94				16.85	85.33	0.48
	10/24/94				17.05	85.13	-0.20
	01/24/95				16.92	85.26	0.13
	04/02/95				17.23	84.95	-0.31
	07/31/95				17.30	84.88	-0.07
	10/16/95				17.16	85.02	0.14
	01/10/96				17.39	84.79	-0.23
	04/09/96				17.58	84.60	-0.19
	07/21/96				18.38	83.80	-0.80
	10/21/96				16.65	85.53	1.73
	01/21/97				16.12	86.06	0.53
	04/08/97				16.04	86.14	0.08
MW-10	01/26/91	30.00	Protective Casing	101.34	19.68	81.66	
	09/13/91				18.56	82.78	1.12
	11/21/91				16.96	84.38	1.60
	03/16/93				15.64	85.70	1.32
	01/09/94				16.89	84.45	-1.25
	04/19/94				16.73	84.61	0.16
	07/19/94				16.29	85.05	0.44
	10/24/94				16.39	84.95	-0.10
	01/24/95				16.48	84.86	-0.09
	04/02/95				16.88	84.46	-0.40
	07/31/95				16.82	84.52	0.06
	10/16/95				16.65	84.69	0.17
	01/10/96				17.01	84.33	-0.36
	04/09/96				17.20	84.14	-0.19
	07/21/96				17.85	83.49	-0.65
	10/21/96				16.13	85.21	1.72
	01/21/97				15.73	85.61	0.40
	04/08/97				15.70	85.64	0.03
MW-11	01/26/91	30.00	Protective Casing	100.60	19.27	81.33	
	09/13/91				17.81	82.79	1.46
	11/21/91				16.35	84.25	1.46
	03/16/93				15.20	85.40	1.15
	01/09/94				16.31	84.29	-1.11
	04/19/94				16.17	84.43	0.14
	07/19/94				15.63	84.97	0.54
	10/24/94				15.72	84.88	-0.09
	01/24/95				15.89	84.71	-0.17
	04/02/95				16.33	84.27	-0.44
	07/31/95				16.03	84.57	0.30
	10/16/95				16.00	84.60	0.03
	01/10/96				16.45	84.15	-0.45
	04/09/96				16.62	83.98	-0.17
	07/21/96				17.21	83.39	-0.59
	10/21/96				15.52	85.08	1.69

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-11 Cont.	01/21/97				15.15	85.45	0.37
	04/08/97				15.19	85.41	-0.04
MW-12	01/26/91	34.00	Protective Casing	100.69	19.24	81.45	
	09/13/91				17.59	83.10	1.65
	11/21/91				16.21	84.48	1.38
	03/16/93				15.22	85.47	0.99
	01/09/94				16.25	84.44	-1.03
	04/19/94				16.13	84.56	0.12
	07/19/94				15.63	85.06	0.50
	10/24/94				15.73	84.96	-0.10
	01/24/95				15.80	84.89	-0.07
	04/02/95				16.23	84.46	-0.43
	07/31/95				15.96	84.73	0.27
	10/16/95				15.93	84.76	0.03
	01/10/96				16.35	84.34	-0.42
	04/09/96				16.52	84.17	-0.17
	07/21/96				17.15	83.54	-0.63
	10/21/96				15.48	85.21	1.67
	01/21/97				15.04	85.65	0.44
	04/08/97				15.10	85.59	-0.06
MW-13	09/13/91	45.00	Protective Casing	99.25	15.10	84.15	
	11/21/91				13.95	85.30	1.15
	03/16/93				13.22	86.03	0.73
	01/09/94				14.03	85.22	-0.81
	04/19/94				13.90	85.35	0.13
	07/20/94				13.70	85.55	0.20
	10/24/94				13.86	85.39	-0.16
	01/24/95				13.56	85.69	0.30
	04/02/95				13.87	85.38	-0.31
	07/31/95				13.84	85.41	0.03
	10/16/95				13.83	85.42	0.01
	01/10/96				14.02	85.23	-0.19
	04/09/96				14.20	85.05	-0.18
	07/20/96				15.04	84.21	-0.84
	10/21/96				13.31	85.94	1.73
	01/21/97				12.70	86.55	0.61
	04/08/97				12.48	86.77	0.22
MW-14	09/13/91	35.00	Protective Casing	98.74	14.60	84.14	
	11/21/91				13.61	85.13	0.99
	03/16/93				13.00	85.74	0.61
	01/09/94				13.71	85.03	-0.71
	04/19/94				13.63	85.11	0.08
	07/20/94				13.39	85.35	0.24
	10/24/94				13.48	85.26	-0.09
	01/25/95				13.26	85.48	0.22
	04/02/95				13.61	85.13	-0.35
	07/31/95				13.44	85.30	0.17
	10/16/95				13.52	85.22	-0.08
	01/10/96				13.76	84.98	-0.24
	04/09/96				13.96	84.78	-0.20
	07/20/96				14.74	84.00	-0.78
	10/21/96				13.03	85.71	1.71
	01/21/97				12.47	86.27	0.56
	04/08/97				12.44	86.30	0.03
MW-15	09/13/91	34.00	Protective Casing	100.05	16.30	83.75	
	11/21/91				15.01	85.04	1.29
	03/16/93				13.95	86.10	1.06
	01/09/94				14.91	85.14	-0.96
	04/19/94				14.80	85.25	0.11
	07/20/94				14.56	85.49	0.24
	10/24/94				14.73	85.32	-0.17
	01/24/95				16.00	84.05	-1.27
	04/02/95				14.80	85.25	1.20
	07/31/95				14.82	85.23	-0.02
	10/16/95				14.74	85.31	0.08

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-15 Cont.	01/10/96				14.95	85.10	-0.21
	04/09/96				15.11	84.94	-0.16
	07/20/96				15.96	84.09	-0.85
	10/21/96				14.22	85.83	1.74
	01/21/97				13.64	86.41	0.58
	04/08/97				13.53	86.52	0.11
MW-17D	04/02/95	19.00	Protective Casing	101.29	16.80	84.49	
	07/31/95				16.48	84.81	0.32
	10/16/95				16.51	84.78	-0.03
	01/10/96				16.90	84.39	-0.39
	04/09/96				17.10	84.19	-0.20
	07/21/96				17.70	83.59	-0.60
	10/21/96				16.02	85.27	1.68
	01/21/97				15.60	85.69	0.42
	04/08/97				15.64	85.65	-0.04
MW-17A	04/02/95	26.00	Protective Casing	100.57	16.05	84.52	
	07/31/95				15.75	84.82	0.30
	10/16/95				15.77	84.80	-0.02
	01/10/96				16.18	84.39	-0.41
	04/09/96				16.37	84.20	-0.19
	07/21/96				16.98	83.59	-0.61
	10/21/96				15.30	85.27	1.68
	01/21/97				14.88	85.69	0.42
	04/08/97				14.92	85.65	-0.04
MW-17B	04/02/95	34.00	Protective Casing	101.28	16.79	84.49	
	07/31/95				16.50	84.78	0.29
	10/16/95				16.51	84.77	-0.01
	01/10/96				16.92	84.36	-0.41
	04/09/96				17.10	84.18	-0.18
	07/21/96				17.71	83.57	-0.61
	10/21/96				16.02	85.26	1.69
	01/21/97				15.64	85.64	0.38
	04/08/97				15.67	85.61	-0.03
MW-17C	04/02/95	61.00	Protective Casing	101.33	16.93	84.40	
	07/31/95				16.66	84.67	0.27
	10/16/95				16.64	84.69	0.02
	01/10/96				17.08	84.25	-0.44
	04/09/96				17.25	84.08	-0.17
	07/21/96				17.85	83.48	-0.60
	10/21/96				16.17	85.16	1.68
	01/21/97				15.75	85.58	0.42
	04/08/97				15.80	85.53	-0.05
MW-18	04/02/95	28.00	Protective Casing	98.72	14.77	83.95	
	07/31/95				14.21	84.51	0.56
	10/16/95				14.25	84.47	-0.04
	01/10/96				14.90	83.82	-0.65
	04/09/96				15.05	83.67	-0.15
	07/21/96				15.44	83.28	-0.39
	10/21/96				13.78	84.94	1.66
	11/22/96				13.84	84.88	-0.06
	01/21/97				13.54	85.18	0.30
MW-19	04/08/97				13.66	85.06	-0.12
	04/02/95	28.00	Protective Casing	99.08	14.86	84.22	
	07/31/95				14.29	84.79	0.57
	10/16/95				14.39	84.69	-0.10
	01/10/96				14.98	84.10	-0.59
	04/09/96				15.14	83.94	-0.16
	07/21/96				15.62	83.46	-0.48
	10/21/96				14.00	85.08	1.62
	11/22/96				14.03	85.05	-0.03
	01/21/97				13.69	85.39	0.34
	04/08/97				13.76	85.32	-0.07

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-20	11/22/96	28.00	Protective Casing	101.09	16.28	84.81	
	01/21/97				16.08	85.01	0.20
	04/08/97				16.04	85.05	0.04
MW-21	11/22/96	25.00	Protective Casing	98.88	14.36	84.52	
	01/21/97				14.26	84.62	0.10
	04/08/97				98.89	14.41	84.48
MW-22	11/22/96	24.50	Protective Casing	97.16	12.88	84.28	
	01/21/97				12.94	84.22	-0.06
	04/08/97				97.14	13.42	83.72
MW-23	11/22/96	25.00	Protective Casing	97.33	12.72	84.61	
	01/21/97				12.59	84.74	0.13
	04/08/97				97.30	13.07	84.23
MW-24	11/22/96	27.00	Protective Casing	103.42	17.91	85.51	
	01/21/97				17.56	85.86	0.35
	04/08/97				103.41	17.40	86.01
MW-25	04/08/97	25.00	Protective Casing	97.64	14.23	83.41	-
MW-26	04/08/97	25.00	Protective Casing	96.11	13.06	83.05	-
MW-27	04/08/97	25.00	Protective Casing	96.17	13.06	83.11	-

NOTES:

NM = not measured

* = measured from a temporary benchmark of arbitrary elevation = 100.00 feet.
Benchmark is located on the concrete right up against the east shop wall,
at the northeast corner of the shop.

** = water level measurement may be in error

TABLE 2.

RESULTS FROM LABORATORY ANALYSES OF GROUND-WATER SAMPLES,
MAJOR CATIONS AND ANIONS (DISSOLVED),
DOWELL, ARTESIA, NEW MEXICO

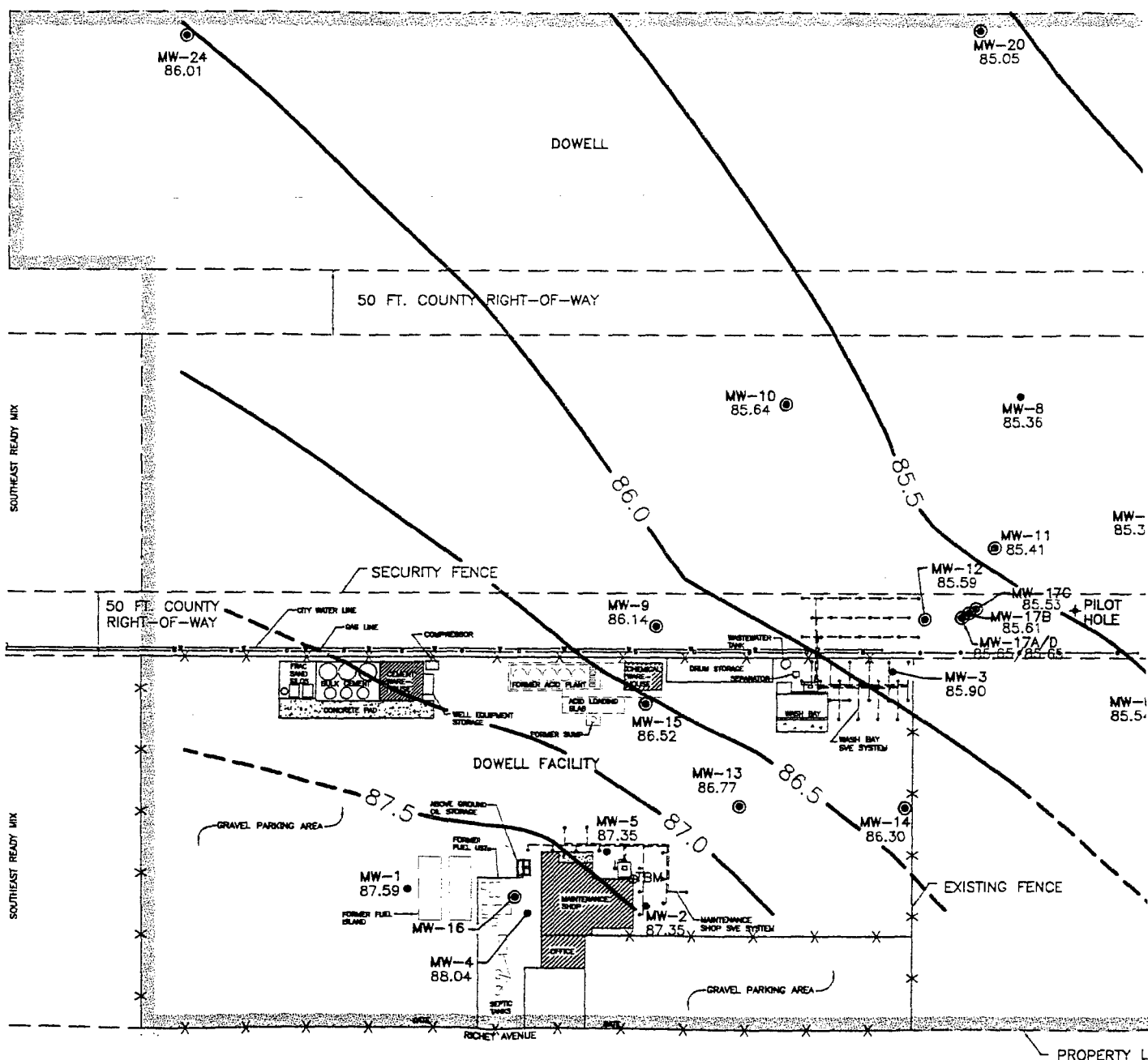
WELL NUMBER	SAMPLE DATE	MAJOR CATIONS				MAJOR ANIONS			
		CALCIUM (mg/L)	SODIUM (mg/L)	POTASSIUM (mg/L)	MAGNESIUM (mg/L)	CARBONATE (mg/L)	BICARBONATE (mg/L)	SULFATE (mg/L)	CHLORIDE (mg/L)
MW-1	01/10/96	455	91.7	1.1	241	ND(2)	248	1700	157
MW-9	11/16/95	201	237	0.68 J	329	ND(10)	592	844	1260
	01/10/96	545	217	ND(1)	336	ND(4)	606	786	1250
	04/13/96	467	239	ND(1)	312	ND(4)	540	887	1050
	07/22/96	508	236	ND(1)	328	ND(5)	626	751	1520
MW-10	11/16/95	122	215	1.25	246	ND(2)	190	2170	208
	01/10/96	548	204	1.15	253	ND(2)	187	2200	192
	04/13/96	506	215	1.01	237	ND(2)	195	2120	201
	07/22/96	482	199	1.01	234	ND(2)	190	2310	227
MW-15	11/16/95	93	132	0.48 J	241	ND(4)	422	1330	286
	01/10/96	407	122	0.38 J	252	ND(4)	443	1450	344
	04/13/96	355	122	ND(1)	222	ND(4)	443	1200	210
	07/21/96	335	114	ND(1)	215	ND(5)	452	1330	270
MW-17A	07/22/96	581	526	ND(1)	281	ND(2)	354	2410	955
MW-17B	07/22/96	570	397	1.39	354	ND(2)	256	2730	800
MW-17C	07/22/96	1390	448	2.51	640	ND(5)	420	916	4810
MW-17D	07/22/96	593	506	7.57	219	ND(2)	375	2110	877

Notes:

mg/L = milligrams per liter (equivalent to parts per million)

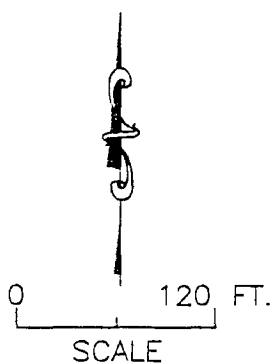
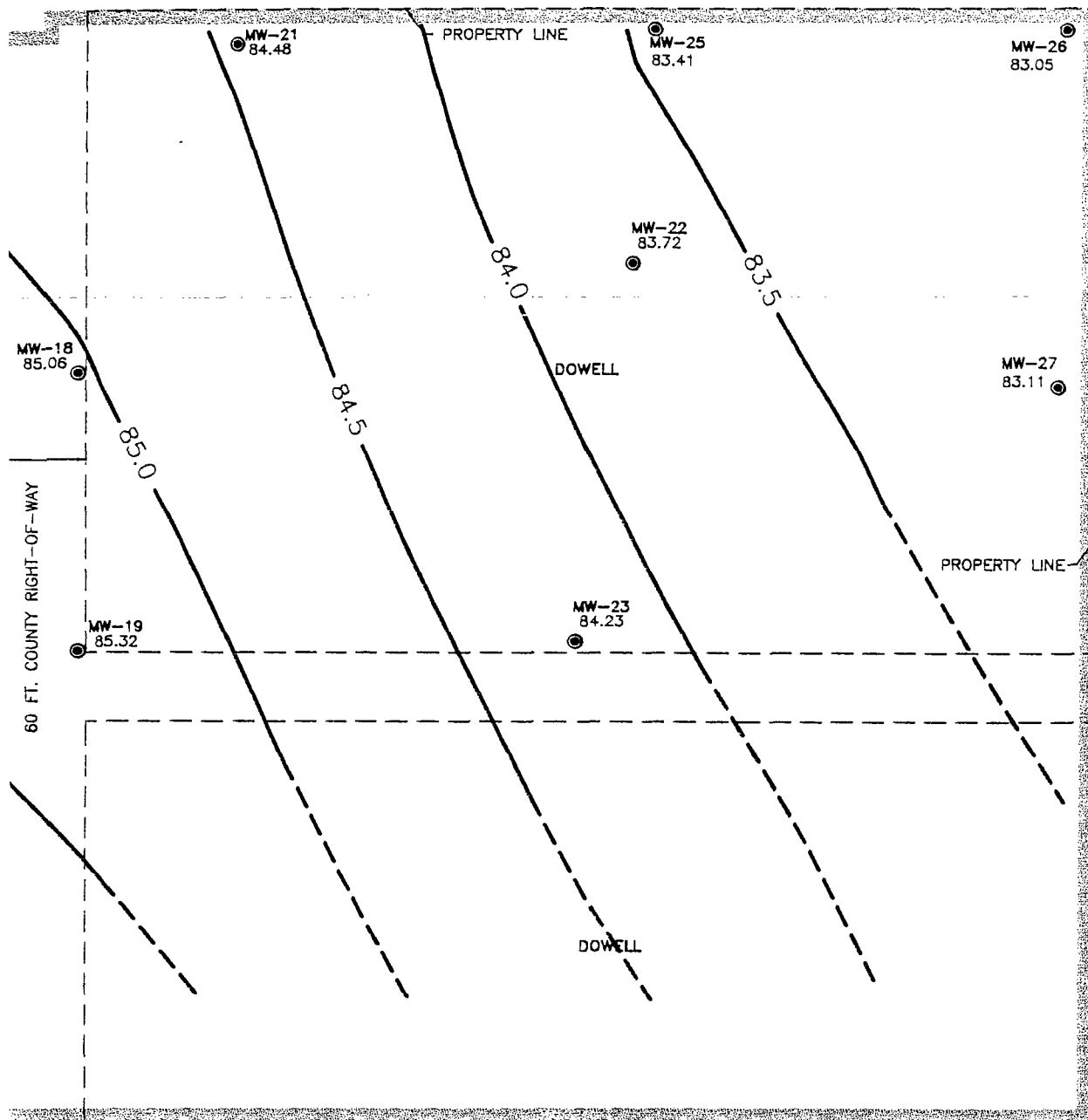
ND(2) = ion not detected at concentration above method detection limit in parentheses

J = ion detected at concentration above instrument detection limit but below method detection limit



EXPLANATION

- MW-12 WWC MONITORING WELL LOCATION AND
 85.59 IDENTIFICATION
 GROUND-WATER ELEVATION
 • MW-6 REED AND ASSOCIATES MONITORING WELL
 85.54 LOCATION AND IDENTIFICATION
 GROUND-WATER ELEVATION
 @TBM TEMPORARY BENCH MARK
 -85.0- POTENTIOMETRIC SURFACE CONTOUR
 ----- AIR PIPING
 • SVE EXTRACTION WELL



BASE MAP MODIFIED FROM REED & ASSOCIATES

FIGURE 1 **POTENTIOMETRIC SURFACE** **(APRIL 8, 1997)**

DOWELL, A DIVISION OF
 SCHLUMBERGER TECHNOLOGY CORPORATION
 ARTESIA, NEW MEXICO

Western Water Consultants, Inc. **WWC Engineering**
 Engineering Environmental Mining Water Resources

ENVIRONMENTAL EXIT

SURVEY CHECKLIST

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:

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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 _____

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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:

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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.)

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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: _____

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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 _____

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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:

SCHLUMBERGER ENVIRONMENTAL EXIT SURVEY CHECKLIST

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 SCHLUMBERGER INCORPORATED
ARTESIA, NEW MEXICO***

***SPILL PREVENTION CONTROL AND
COUNTERMEASURE (SPCC) PLAN***

JUNE, 1992



ARTESIA, NEW MEXICO DISTRICT

SPCC PLAN

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

JUNE, 1992

DOWELL SCHLUMBERGER, INC.



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**DOWELL SCHLUMBERGER INCORPORATED
ARTESIA, NEW MEXICO DISTRICT
SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN
AND CONTINGENCY PLAN**

1.0 INTRODUCTION

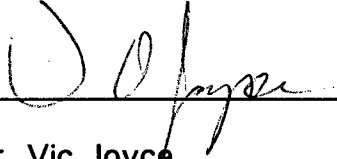
The management and personnel of Dowell Schlumberger Incorporated, Artesia, New Mexico District realize and acknowledge the importance of preventing oil from being spilled into the navigable waters of the United States and preventing harmful releases of hazardous waste into the environment. The following Spill Prevention, Control and Countermeasure (SPCC) Plan and Contingency Plan is designed to serve two purposes to help protect the environment.

- ◆ First, it provides the procedures which will be used to prevent oil 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.

For the purpose of handling spill responses effectively, this SPCC and Contingency Plan provides: descriptions of the duties to be performed by facility personnel; procedures to be followed; available equipment; and available outside resources.

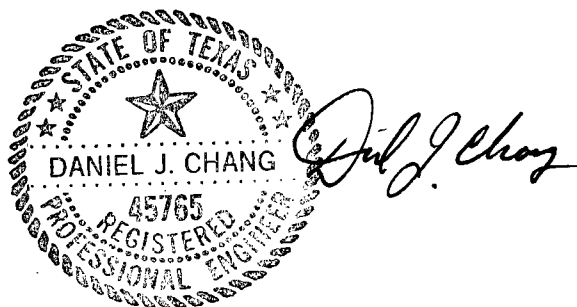
This SPCC and Contingency Plan was developed in accordance with the requirements of Title 40 CFR Part 112, requirements under Title 40 CFR Section 262.34 (a) for generators storing hazardous waste for less than 90 days. This plan conforms to the recommendation of API Bulletin D16, entitled "Suggested Procedures for Development of Spill Prevention, Control and Countermeasure Plans", revised April 1990.

1.1 **Management Approval** - This SPCC and Contingency Plan, required under 40 CFR Parts 112 and 262, will be implemented as described herein, and is approved by:


Mr. Vic Joyce
Manager
Health, Safety & Environment

Date: 6-26-92

1.2 **Engineering Certification** - I hereby certify that I have examined the Dowell Schlumberger Incorporated facility located at 507 E. Richey, Artesia, New Mexico and being familiar with the provision of 40 CFR 112, attest that the following SPCC plan has been prepared in accordance with good engineering practices and the requirements of 40 CFR parts 112.7; certified by:



Date: June 26, 1992

Mr. Daniel J. Chang, R.E.M., P.E.
State of Texas
Registration No. 45765

2.0 GENERAL FACILITY INFORMATION

2.1 Brief Facility Description - Dowell Schlumberger Incorporated's (DSI), Artesia Facility is an oilfield cementing, service company for the oil and gas industry. The facility is an on-shore non-transportation related facility, storing bulk sand, bulk cement, and bulk liquids in tanks. Bulk liquids are stored in the following tankage: one (1) 2,940 gallon wastewater storage and one (1) 2,940 gallon of recyclable oil storage. Miscellaneous chemical liquids are stored in containers (drums and pails). 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 90 days and is disposed of off-site. The hazardous waste materials are stored in drums and containers meeting applicable DOT specifications and are labeled in accordance with the requirements of 40 CFR 262.34. 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 process water effluent discharged from this facility into navigable waters. The Artesia facility is located in Eddy County at 507 E. Richey, in Artesia, New Mexico. A facility plot plan is found in Attachment No. 1, which includes an area map for reference.

2.2 Designated Contact - Mr. Rich Connell, Location Manager, is the designated contact person for responsible spill prevention and Emergency Response Coordinator at the DSI Artesia facility. Correspondence should be addressed to:

Dowell Schlumberger Incorporated
507 E. Richey
Artesia, New Mexico 88210

Mr. Connell is the emergency coordinator for this facility. DSI will utilize trained in-house personnel from this facility and outside contractors as well as local fire departments to

respond to emergency situations. Typically after an emergency event, e.g., fire or explosion, some form of clean-up is necessary. DSI will rely on in-house RCRA and OSHA trained personnel to conduct necessary spill clean-up.

2.3 Storage Tanks - The bulk storage tank at the Artesia facility is constructed of all steel material with welded seams, the only exception is the truck wash wastewater tank that is made of fiberglass. Details concerning the facility tankage are found in Attachment No. 2.

2.4 Loading Facilities - There is one (1) loading and unloading racks at the Artesia facility. The wastewater loading and unloading area, for the runoff water and the truck wash wastewater. The only pipeline system at the facility is from the truck wash wastewater to the holding tank.

These loading operations are as follows:

- 1) The runoff water and the truck wash wastewater tank is on the northeast corner of the facility.

2.4.1 Loading and Unloading Operations - The type of operations at each of the areas can be described as follows:

- 1) Runoff and truck wash wastewater storage is a 2,940 gallon tank that receives wastewater by pipeline from the truck wash oil/water separator. This water is then pumped into the tank. The tank is not diked. This tank is unloaded by vacuum truck for disposal. The loading and unloading activities are supervised by a DSI employee.

2.4.2 Pipeline System - The facility has only one pipeline system, which is a 4 inch PVC pipe

and is buried underground. Since all lines are buried, vehicle traffic warning signs are not required. If a leak does occur, clean-up will be conducted by trained personnel.

3.0 OIL SPILL & HAZARDOUS WASTE EMERGENCY PREVENTION MEASURES

It is recognized that the facility must be maintained and operated to minimize the possibility of a fire, explosion, or any sudden or non-sudden release of oil, hazardous waste, or hazardous waste constituents into the air, soil, or surface water, which could threaten human health or the environment. As such, the following preventive measures have been implemented at the Dowell Schlumberger Incorporated's Artesia facility to minimize the possibility of releases and to minimize their impact should a release occur.

3.1 Security - The entire Artesia facility is enclosed by a six foot high hurricane fence. There is one gate at the facility. This gate is left unlocked during working hours and locked after working hours.

3.2 Lighting - The operational areas, including facilities with oil and waste storage, of the Artesia facility are adequately lit at night to allow detection of any spills or leakage.

3.3 Spill Containment Devices - The Artesia facility will use dikes or booms to control accidental oil and waste releases should they occur. The following storage vessels are contained within a diked area, sufficient to hold 130 percent of the volume of the largest storage vessel within the diked area:

◆ Recycled oil and oil storage

"Area 1"

All diked areas which are used to store fuel or other material or wastes have no outlet piping or valves for drainage. Removal of accumulated liquids from all diked areas can be accomplished by using a portable pump or vacuum truck and requires the approval of the

supervisor will visually inspect the diked area to be drained. Drainage will only be allowed if no remedial action is necessary. Accumulated liquids are to be removed to one of the wastewater tanks.

3.4 Special Precautions - No hazardous materials will be stored within at least 50 feet of the property line in accordance with NFPA standards. Adequate aisle space will be provided in and around all areas where oil and wastes are stored to allow the unobstructed movement of personnel and equipment for spill control, emergency response, and for fire fighting needs. Hazardous waste handling operations will be conducted by personnel who have completed OSHA/RCRA training. Drums containing hazardous waste, if any, will be marked and labeled in accordance with 40 CFR262.31 and 49 CFR 172.

3.5 Inspections - Each of the facility's storage tanks will be visually inspection upon use. This inspection will include the following at a minimum:

- ◆ Integrity of joints
- ◆ Rusted areas and associated leaks
- ◆ Structural abnormalities
- ◆ Breathing vent conditions
- ◆ 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 No. 3. Corrective action for defects will be taken as necessary and will be recorded on inspection forms.

The supervisor responsible for spill prevention and waste handling at the DSI Artesia 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 No. 3. This inspection will include the following:

- ◆ Condition of facility drainage ditch
- ◆ External tankage appearance
- ◆ Condition of waste storage drums in "Area 2"
- ◆ Condition of product drums in "Area 3"
- ◆ Integrity of containment dikes
- ◆ Condition of diked area
- ◆ Adequate aisle and work space in storage area

3.6 Personnel Training - All personnel, except office personnel, at Artesia 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 personnel trained in oil spill prevention, response, and waste management procedures and having familiarity with the ~~Venice~~ ^{Artesia} facility. This training will include:

- A. Applicable Laws and Regulations
 - 1. Required spill prevention

2. Waste handling requirements
 3. Reporting of releases
- B. Safe Hazardous Waste Planning
1. Equipment location
 2. Incompatible waste
 3. Access space
 4. Employee precautions
- C. Spill/Release Prevention
1. Secondary containment devices
 2. Containment device maintenance
 3. Inspection procedures
 4. Operational precautions
- D. Spill/Release Control Equipment
1. Proper use and limitation
 2. Inspection procedures
- E. Oil and Waste Release Response
1. Response to minor releases
 2. Response to significant releases
- F. Waste Minimization Practices
- G. OSHA Required Training
1. Personnel protective equipment
 2. Decontamination procedures
 3. Site safety plan review
 4. Confined space entry
 5. Emergency response

DSI personnel training records are maintained in the Artesia facility master file, which is in the Main building. In accordance with 40 CFR 112(10), DSI 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 and
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 Response Supervisor (refer to the Phone Numbers in Attachment No. 4).
- 2) The Emergency Response Supervisor will determine which outside assistance organizations to contact, if any, how to stop the leak, how to contain the leak, and what form of remedial action is necessary, he will then initiate the necessary activities.
- 3) The Emergency Response Supervisor will notify DSI Emergency Service. This office will determine which government agencies are required to be notified and ensure that these notifications are made.
- 4) The Emergency Supervisor will ensure that all non-DSI Communication (i.e. news media) follow company policy.

The intent of this SPCC and Contingency plan is to provide the information necessary to

respond properly to a spill event.

Spill response will vary during each spill event, since each spill is typically unique. As such, no one plan can address all of the difference scenarios that can occur before, during, and after a spill. Generally, the DSI Artesia 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 public 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 No. 2. The location of this equipment is also shown on the facility plot plan provided in Attachment No. 1. 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 No. 6.

4.3 Supervisor Response - After receiving a report of a spill, leak or other emergency, the Emergency Response Supervisor shall determine the following:

- 1) Extent of personal injuries, if any.
- 2) Exact location of spill, leak or other emergency event.
- 3) Whether the event is still occurring and when it was first observed.
- 4) The extent of spill, leak or emergency.
- 5) Methods to safely control the event.
- 6) If spill containment devices are working.
- 7) If there are apparent on-site or off-site hazards associated with the event.
- 8) Which outside contractors will be utilized.
- 9) Present and predicted weather conditions at the facility.
- 10) Applicable government agency notifications required.
- 11) Determine DSI contact for non DSI communications.

Based on the above criteria, the Emergency Response Supervisor will implement the most appropriate response.

4.4 Other Considerations

4.4.1 Drum Leaks - If a leaking drum is detected, the contents remaining in the drum will be transferred to an intact drum if this can be done safely. The empty drum will be put in the empty drum 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.

4.4.2 Evacuation of Site - Evacuation routes are shown on the facility plot plan provided in Attachment No. 1. It is not foreseen that any facility release or event would

require evacuation.

4.4.3 Arrangements with Local Authorities - A copy of this SPCC and Contingency Plan has been provided to the Artesia Fire and Police Departments.

Information concerning the hazardous waste and materials stored at this site is kept in the DSI Emergency Response Supervisor's office. This information will be provided to police, firefighters, hospitals and other emergency response personnel as needed. This information includes Material Safety Data Sheets for stored products.

5.0 REPORTING

5.1 Spills - When a discharge of diesel, acid or other products leaves the Artesia property A REPORTABLE spill has occurred. The DSI Emergency Coordinator will contact the DSI Emergency Number, to determine if the spill is a reportable spill. If the spill is a reportable spill, the Emergency Coordinator will then call the National Response Center and the New Mexico Environmental Improvement Division (NMEID) will be notified as soon as possible by phone, according to regulatory requirements and company policy. Attachment No. 5 includes the information normally requested by the receiving agency. Whenever the facility has "discharged more than 1,000 gallons of oil from the property in a single spill event or discharged harmful quantities, as defined in 40 CFR 110, in two spill events occurring within any twelve month period..." the owner or operator of the facility must file a written report of the incident and include a copy of the facility's SPCC plan.

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:

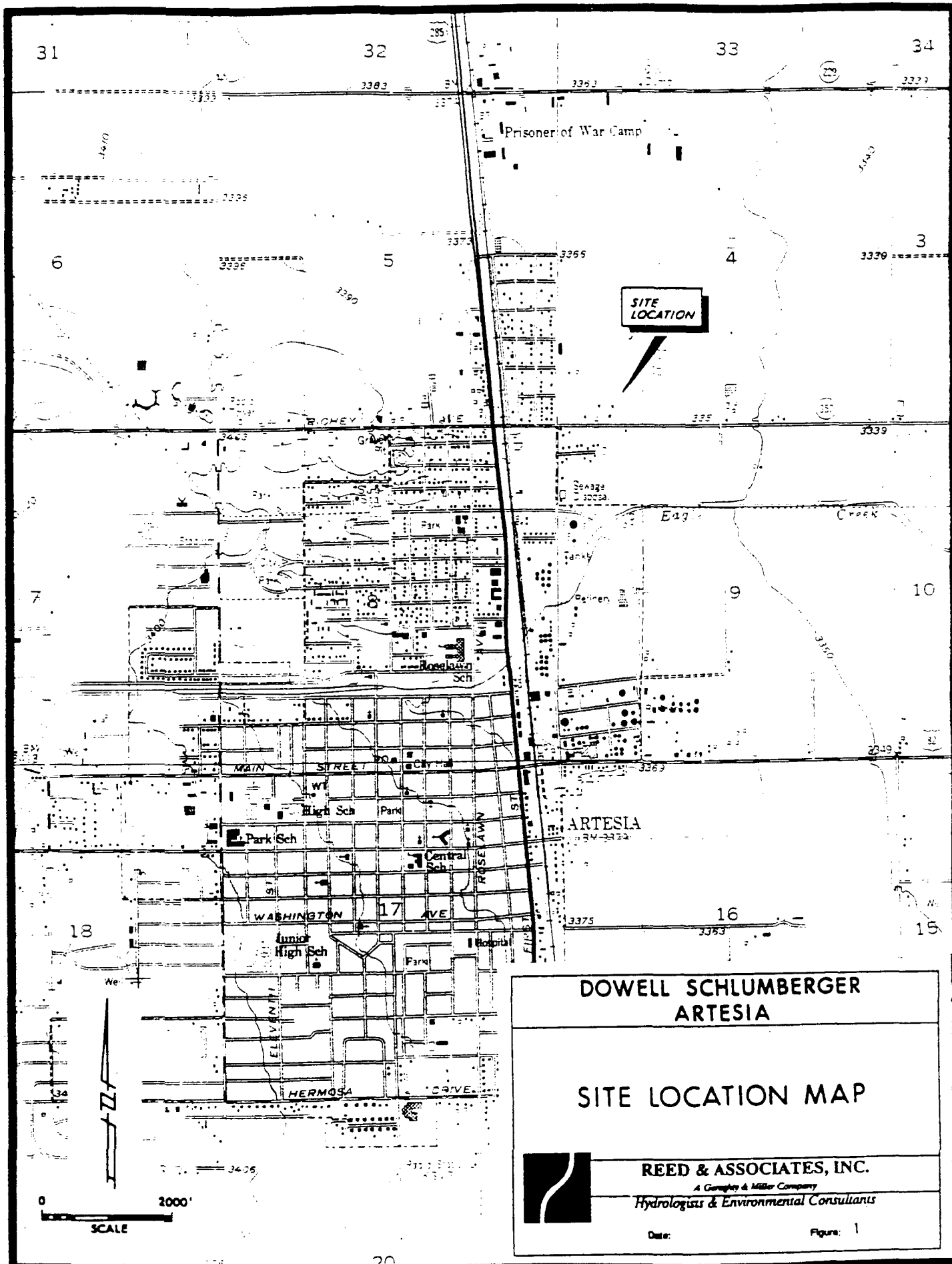
- ◆ Local Police and Fire Departments if evacuation is required,
- ◆ DSI Emergency Number,
- ◆ National Response Center and the NMEID, and,
- ◆ Environmental Protection Agency (EPA).

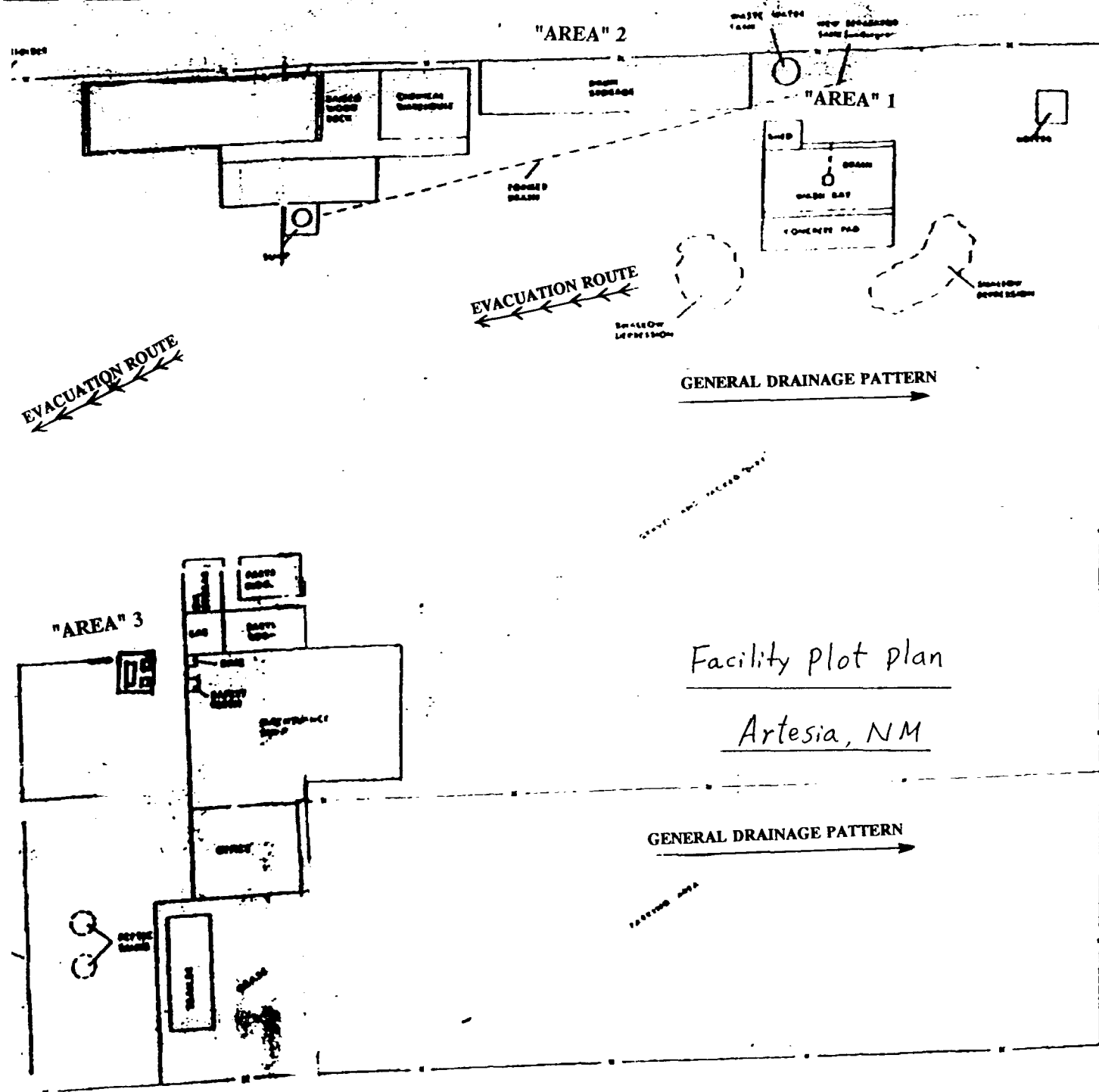
Attachment No. 5 provides the required information for reporting a hazardous waste release to government agencies.

5.3 Plan Amendment - In the event that this facility has a reportable spill event, local DSI 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 DSI Management. Further, all future modifications and changes in operations at the Artesia facility which materially affect this plan will be incorporated into a revised plan within 6 months after such changes occur.

ATTACHMENT No. 1

FACILITY PLOT PLAN AND AREA MAP





Facility plot plan

Artesia, NM

PRODUCT AND WASTE STORAGE AND SPILL CONTAINMENT FACILITIES

<i>SOURCE</i>	<i>POTENTIAL TYPE OF FAILURE</i>	<i>GALLONS STORED</i>	<i>SECONDARY CONTAINMENT</i>
Truck wash wastewater and Runoff water tank	Rupture	2,940	None
Drummed product storage area	Leak	55	Dike
Waste oil storage tank	Rupture	500	Dike

ATTACHMENT No. 2

ARTESIA RESPONSE EQUIPMENT

OIL SPILL/EMERGENCY RESPONSE EQUIPMENT

<i>ITEM</i>	<i>QUANTITY</i>	<i>PURPOSE</i>	<i>LOCATION</i>
20 # Dry Chemical	10	Firefighting	At least 1 at all storage areas
Hand-held radios	5	Communications	Main office building
Intercom System	1	Communications & Alarm	On-site
Shovels & Rakes	4	Spill Clean-up	
Absorbent "Soil"	2 sacks	Spill Clean-up	
Overpack Drum	1	Spill Control	Drum Storage Pad
Drum Patch Kit	1	Spill Control	Drum Storage Pad

ATTACHMENT No. 3

RECORD-KEEPING FORMS

WEEKLY INSPECTION REPORT

DOWELL SCHLUMBERGER INCORPORATED

ARTESIA, NEW MEXICO FACILITY

<i>LOCATION OR DESCRIPTION</i>	<i>OBSERVATION TO BE PERFORMED</i>	<i>INSP. DATE</i>	<i>INSP. BY</i>	<i>REMARKS</i>
1	Check level in 2,940 gal. waste tanks			
1	Check level in waste tank/sump			
2	Check for leaking drums, proper lighting			
3	Check all dike areas for water levels. Report any contamination observed			
3	Waste oil storage area			

COMMENTS: _____

NOTE: Inspection Reports to be turned in each morning to the Facility Supervisor, main building.

SPCC PLAN
DOWELL SCHLUMBERGER INCORPORATED
ARTESIA, NEW MEXICO FACILITY

WEEKLY INSPECTION RECORD (40 CFR/Part 112.7)

Week Ending _____

<i>ITEM</i>	<i>SATISFACTORY</i>	<i>DEFICIENT *</i>	<i>DATE DEFICIENCY CORRECTED</i>
Material storage area			
Spill response equipment			
Fire Extinguishers			
Scott air-paks			
On-site radio equipment			
Wastewater storage area			

*Describe any deficiencies: _____

Inspection performed by: _____
Inspector or Supervisor

Date of Inspection: _____

ANNUAL TANK INSPECTION REPORT
DOWELL SCHLUMBERGER INCORPORATED
ARTESIA, NEW MEXICO FACILITY

<i>TANK LOCATION</i>	<i>TANK DESCRIPTION</i>	<i>INSPECTION DATE</i>	<i>INSPECTED BY</i>	<i>REMARKS</i>
Area 1	Wastewater tank			
Area 3	Waste oil storage tank			

NOTE: Inspection must include:

- ◆ Integrity of joints ¹
- ◆ Rusted areas
- ◆ Structural abnormalities
- ◆ Breathing vents condition
- ◆ Valving
- ◆ Condition of plant
- ◆ Condition of tank interior

¹

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

ATTACHMENT No. 4

EMERGENCY COMMUNICATIONS (TELEPHONE NUMBERS)

EMERGENCY CALL LIST

(In Order)

NAME	HOME	OFFICE
1) Rich Connell	(505) 746-9750	(505) 746-9363
2) Lupe Bejarano	(505) 746-2560	(505) 746-9363

EMERGENCY ASSISTANCE TELEPHONE NUMBERS

FIRE, POLICE, HIGHWAY PATROL, AMBULANCE (Main Dispatcher) 911

Carlsbad, Artesia, Roswell	911 (Main Dispatcher)
Loco Hills	(505) 677-2181 or 677-2111
Artesia Sheriff	(505) 746-2703
State Police	(505) 746-2703

HOSPITAL

Artesia General Hospital	(505) 748-3333
Guadalupe Medical Center (Carlsbad)	(505) 887-6633
Eastern NM Medical Center Hospital (Roswell)	(505) 622-1110

ADDITIONAL TELEPHONE NUMBERS FOR USE BY THE EMERGENCY SUPERVISOR

DSI Emergency Number	(918) 582-0104
Vic Joyce	(713) 556-7700
Dan Chang	(713) 556-7700
National Response Center (24 Hour)	(800) 424-8802
New Mexico Env. Improvement Division	(05) 827-2929
EPA Dallas Office (24 Hour)	(214) 655-2222
(Business Office)	(214) 655-2270

ATTACHMENT No. 5

REPORTS TO ENVIRONMENTAL AGENCIES

VERBAL OIL SPILL REPORTS

The Emergency Response Supervisor and DSI Emergency Service will be responsible for seeing that all necessary notifications to governmental agencies are made. The following information is expected in a telephone report of an oil spill:

- 1) Name and telephone number of person reporting spill.
- 2) Date, location, and time of spill.
- 3) Has spill been contained and/or stopped.
- 4) The name, address and telephone number of the party responsible for the oil spill as follows:

Dowell Schlumberger, Inc.
Artesia, New Mexico District
507 E. Richey Road
Artesia, New Mexico 88210
(505) 746-9363
EPA I.D. No. FNMD000719716-1

- 5) Location of discharge.
- 6) Material(s) spilled and quantity lost.
- 7) What type of clean-up is underway.
- 8) Personnel injuries and/or fires associated with spill.
- 9) Fishkill or other environmental damage associated with spill.

NOTE: A written report and a copy of this SPCC plan must be submitted to the EPA if more than 1,000 gallon of oil entered the drainage ditch within 60 days of spill.

ATTACHMENT No. 6

***OIL & HAZARDOUS WASTE
CLEAN-UP/DISPOSAL CONTRACTORS***

SPILL CLEAN-UP CONTRACTORS

CLEAN-UP COMPANIES

CECOS INTERNATIONAL
2407 E. Murphy Road
Odessa, TX 79761

(915) 333-2826



DOWELL SCHLUMBERGER

RECEIVED

AUG 27 1992

OIL CONSERVATION DIV.
SANTA FE

August 14, 1992

Mr. Roger Anderson
State of New Mexico
Energy, Minerals, and Natural Resources Dept.
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Anderson:

Please find attached for your review an application for Ground Water Discharge Plan for our Artesia Facility located in the SE 1/4 SE 1/4, Section 4, Township 17S, Range 26E, Eddy County, New Mexico. This is filed pursuant to the New Mexico Water Quality Control Commission Regulations.

In conjunction with the Discharge Plan, you have already received the approved "SPCC" Plan for Artesia that addresses further site specific information.

Should you have any questions concerning this application please call me at (505) 748-1391.

Sincerely,

Richard B. Connell
Manager
Dowell Schlumberger, Inc.

RBC/sj

Enclosure

Buz White
1-505-748-1393

State of New Mexico
Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

- I. TYPE: Oil Field - Cementing, Acidizing and Fracturing
- II. OPERATOR: Dowell Schlumberger Inc.
ADDRESS: 500 E. Richey, Artesia, N.M. 88210
CONTACT PERSON: Richard B. Connell PHONE: 748-1391
- III. LOCATION: SE 1 / 4 SE 1 / 4 Section 4 Township 17 South Range 26 E
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: RICHARD B. CONNELL Title: MANAGER

Signature: Richard B. Connell Date: 8/14/92

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

11

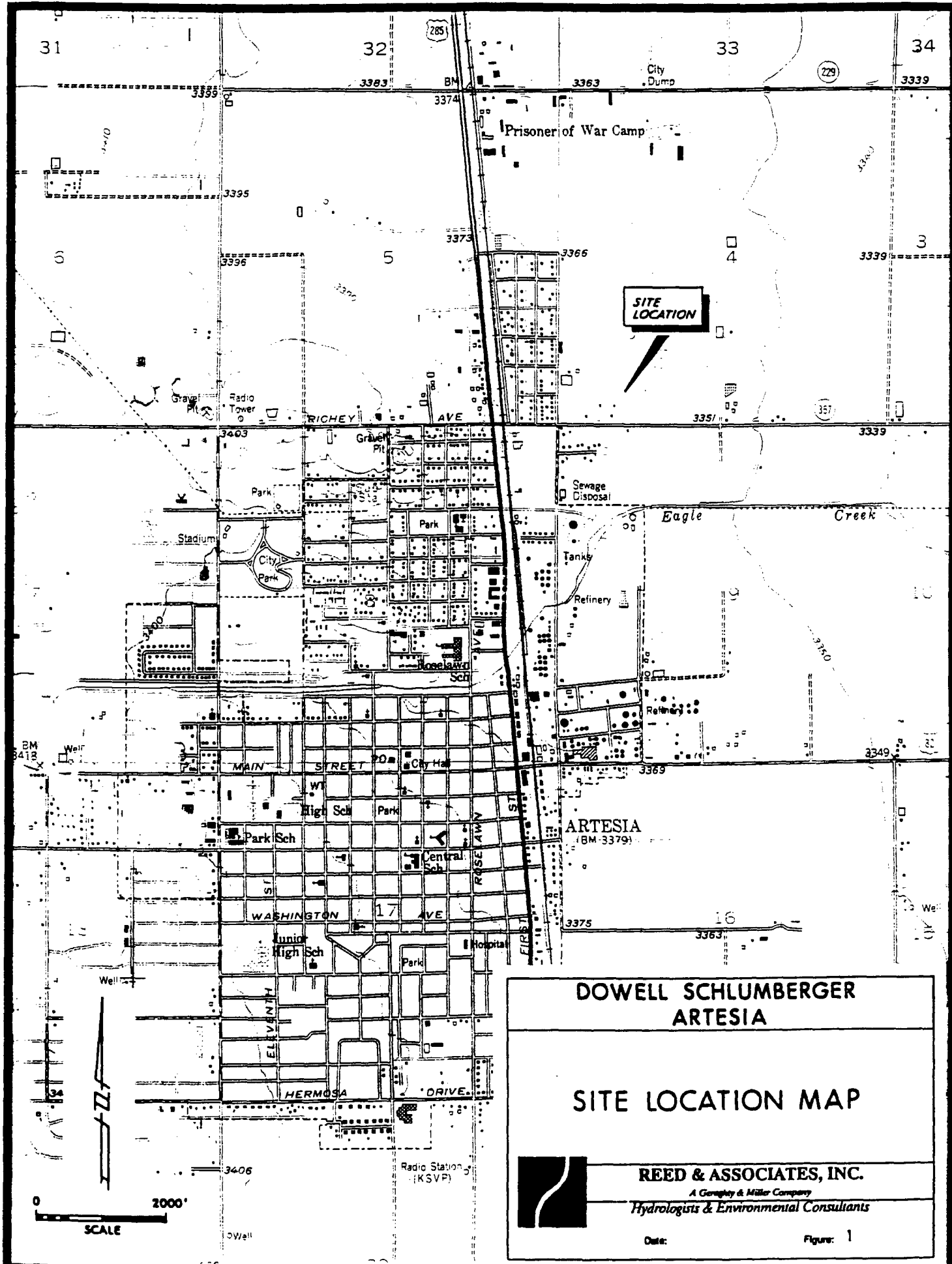
OPERATOR: DOWELL SCHLUMBERGER, INC.

LOCATION: 507 E RICHEY - P.O. BOX H - 88211-7507
ARTESIA, N.M. 88210

CONTACT: RICHARD B. CONNELL - MANAGER

PHONE (505) 748-1391

III



DOWELL SCHLUMBERGER
ARTESIA

SITE LOCATION MAP

REED & ASSOCIATES, INC.

A Geacley & Miller Company
Hydrologists & Environmental Consultants

Date:

Figure: 1

IV

Recorded by:

CURRENT FORM - WARRANTY DEED—New Mexico Statutory Form
Approved by State Comptroller as Standard Form, Oct. 6, 1947

891

PRINTED AND FOR SALE BY
BRYAN PRINTERS & STATIONERS
ARTESIA, NEW MEXICO

WARRANTY DEED

E. B. MARTIN and HILDA GENE MARTIN, his wife, for consideration paid, grant to
THE DOW CHEMICAL COMPANY, a Delaware Corporation

the following described real estate in Eddy county, New Mexico:

Lot 9, Block 2 of the Artesia Industrial Addition, Artesia, Eddy County,
New Mexico.BEGINNING at a point 830 feet East and 50 feet North of the Southwest
corner of Section 4, Township 17 South, Range 26 East, N.M.P.M., Eddy
County, New Mexico; Thence North 290 feet; Thence East 100 feet; Thence
South 290 feet; Thence West 100 feet to the point of beginning, containing
.66 acres more or less, TOGETHER with a right of way easement over a strip
of land 20 feet North and South by 100 feet East and West adjoining said
land on the South; EXCEPT all oil, gas, and other minerals as heretofore
reserved.

with warranty covenants.

WITNESS OUR hand and seal this 17th day of
February 1922.

E. B. MARTIN (Seal)

HILDA GENE MARTIN (Seal)

Texas
STATE OF NEW MEXICO
County of Howard } ss.

The foregoing instrument was acknowledged before me this 17th day of February

1922 by E. B. MARTIN and HILDA GENE MARTIN

Winnie R. Wood
Notary Public
Howard County, Texas.STATE OF NEW MEXICO,
County of Eddy } ss.

Records of Deeds of said County.

I hereby certify that this instrument was filed for

record on the 22nd day of

March, A. D. 1922

at 1:15 o'clock P. M., and duly recorded in

Book 210 Page 891 of

By [Signature] Deputy

Rec. Fees \$

Return to

WARRANTY DEED

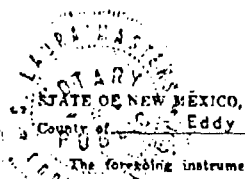
OWEN D. HENSLEY and WINNIE B. HENSLEY, his wife

for consideration paid, grant to
THE DOW CHEMICAL COMPANY, a Delaware Corporationthe following described real estate in Eddy county, New Mexico:

SURFACE ESTATE ONLY

Lots 10 and 11 in Block 2, in Artesia Industrial
Addition, as shown by the Supplemental Plat thereof
on file in Map Book 5 page 91 of the records of
Eddy County, New Mexico

with warranty covenants.

WITNESS OWEN hand 5 and seal this 13th day of
March 19 72Owen D. Hensley (Seal)Winnie B. Hensley (Seal)Winnie B. Hensley (Seal)The foregoing instrument was acknowledged before me this 13th day of March
19 72 by Owen D. Hensley and Winnie B. Hensley, his wifeMy Commission expires Aug 18, 1975 L. James Wooten
Notary PublicSTATE OF NEW MEXICO }
County of Eddy }

Records of Deeds of said County.

I hereby certify that this instrument was filed for
record on the 22nd day ofBy Shirley M. Mahaffey DeputyMarch, A. D., 19 72

Rec. _____ Fees, \$ _____

at 1:15 o'clock P. M., and duly recorded in

Return to _____

Book 210 Page 892 of _____

WARRANTY DEED

ARTESIA INDUSTRIES, INC., a New Mexico Corporation

for consideration paid, grant to
THE DOW CHEMICAL COMPANY, a Delaware Corporation

the following described real estate in Eddy county, New Mexico:

SURFACE ESTATE ONLY
Lots 6, 7 and 8 in Block 2 Artesia Industrial
Addition as shown by the Supplemental Plat
thereof on file in Map Book 5 Page 91 of the
records of Eddy County, New Mexico.

with warranty covenants.

WITNESS its hand and seal this 13th day of
March 19 72.

ARTESIA INDUSTRIES, INC. (Seal)

By: George E. Kaiser (Seal)
George E. Kaiser, President

ATTEST:

Theresa M. Carpenter (Seal)
Secretary

STATE OF NEW MEXICO

County of Eddy ss.

The foregoing instrument was acknowledged before me this 13th day of March, 19 72, by George E. Kaiser, President of Artesia Industries, Inc., a New Mexico Corporation, on behalf of said Corporation

My Commission expires Aug 18, 19 75

Theresa M. Carpenter
Notary Public

STATE OF NEW MEXICO

County of Eddy ss.

I hereby certify that this instrument was filed for
record on the 22nd day of

March, A. D., 19 72

at 1:15 o'clock P. M., and duly recorded in

Book 210 Page 893 of

Records of Deeds of said County.

Shiraldine M. H. Hays
County Clerk

Theresa M. Carpenter, Deputy

Rec. _____ Fees, \$ _____

Return to _____

V

DOWELL SCHLUMBERGER, INC.
ARTESIA, NEW MEXICO

SITE DESCRIPTION

The Dowell Schlumberger site is located on Richey Avenue, approximately one-quarter mile east of U.S. Highway 285, in Artesia, New Mexico. 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 four-acre site is comprised of approximately 800 square feet of office space and 11,500 square feet of operating facilities.

Adjacent Areas

A ready-mix cement plant adjoins the site to the west. An asphalt plant once occupied the property northwest of the site. The properties adjoining to the east, north, and south are undeveloped.

The Navajo Refinery is located approximately one-quarter to one-half mile south of the site. There are numerous oil tanks in this area. The refinery land farms petroleum wastes in two areas on the north side of the refinery property. One of the areas is less than one-half mile from the site.

Topography

The town of Artesia is situated approximately four miles west of the southerly flowing Pecos River. Easterly flowing intermittent tributaries to the Pecos River, Eagle Creek and Cottonwood Creek, are located approximately one mile south and eight miles north of Artesia, respectively. The topography of the area reflects the erosional valleys of the above-mentioned creeks and parallel arroyos.

Artesia is located on the down slope pediment edge of the alluvium above the western side of the Pecos River Valley. This edge is relatively flat topped becoming more deeply eroded immediately to the east of Artesia. Local relief in the area ranges from 10 to 30 feet. The elevation of the Pecos River is 3,310 feet above sea level to the east of Artesia. At the facility the elevation is 3,358 feet above sea level.

Adjacent Areas

The town of Artesia is situated approximately four miles west of the southerly flowing Pecos River. Easterly flowing intermittent tributaries to the Pecos River, Eagle Creek and Cottonwood Creek, are located approximately one mile south and eight miles north of Artesia, respectively. The topography of the area reflects the erosional valleys of the above-mentioned creeks and parallel arroyos.

Artesia is located on the down slope pediment edge of the alluvium above the western side of the Pecos River Valley. This edge is relatively flat topped becoming more deeply eroded immediately to the east of Artesia. Local relief in the area ranges from 10 to 30 feet. The elevation of the Pecos River is 3,310 feet above sea level to the east of Artesia. At the facility the elevation is 3,358 feet above sea level.

VI

MSD SHEETS FOR CURRENT INVENTORY STORED AT ARTESIA FACILITY

Please Note: Refer to Discharge Plan GW-73 on file for Hobbs Facility for copies of MSD Sheets.

VII

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	None	None
2.	Truck Washing (brine water, acid, gel, oil sand, dirt)	Waste materials from truck washing (outer)	100 bbls	Soap
3.	Steam Cleaning of Parts, Equipment, Tanks	Steam cleaner on site	100 bbls	Soap
4.	Solvent/Degreaser Use	Orange Sol	N/A	None
5.	Spent Acids, Caustics or Completion Fluids (Describe)	See 1. above	N/A	N/A
6.	Waste Slop Oil	Oil recovered from oil filters	2 Gal.	None
7.	Waste Lubrication and Motor Oils	Pump packing oil, motor oil, compressor oil	50 Gal.	None
8.	Oil filters, Fuel Filters, Air Filters	Oil, fuel and air filters from trucks	Oil - 2 ea. Fuel- 2 ea. Air - 1 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 Sludge from wash bay	None 15 gal	
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 None 2 gal	
13. Other Waste Solids (Cement, construction materials, used drums - slurry gel, used chemical drums, contam- inated 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-100 sks drums-7 ea Contaminated soil- oil sorbent 20 gal	None

VIII

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	-	-	-	-	-	-
2. Truck, Tanks and Drum Washing	T1	-	-	-	-	1
3. Stream cleaning of parts, equipment, tanks	T1	F1	L1	-	-	1
4. Solvent/Degreaser use	D1	-	S1	-	-	2
5. Spent Acids, Caustics, or completion fluids	-	-	-	-	-	-
6. Waste Slop Oil	D6	-	-	-	-	3
7. Waste Lubrication and Motor Oils	D3	-	-	-	-	3
8. Oil filters	D5	-	-	-	-	4
9. Solids and Sludges from tanks						
Cement	T2	-	-	-	-	5
Sand	T3	-	-	-	-	9
Pit Sludge	L1	-	-	-	-	-
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
------------	----------------------	------------------------------	--------------------------------------	-----------------------------	----------------	---------------------

12. Other Waste Liquids:

Maintenance Shop Wastewater	-	-	-	-	-	-
Laboratory Wastewater	C1	-	-	-	-	1
Anti-freeze	-	-	-	-	-	-

13. Other Waste Solids:

Used Drums	D2	-	-	-	-	7
Used 5-gal containers	D2	-	-	-	-	7
Contaminated Soil	D4	-	-	-	-	8

IX

PROPOSED MODIFICATION:

- A. Washbay upgrade to include berm around waste water tank.
 - 1. Target date: 3rd qt. 1993
- B. Containment for drum storage.
 - 1. Complete - 3rd qt. 1992
- C. Canopy over drum storage area.
 - 1. Target date: 3rd qt. 1994

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.

North

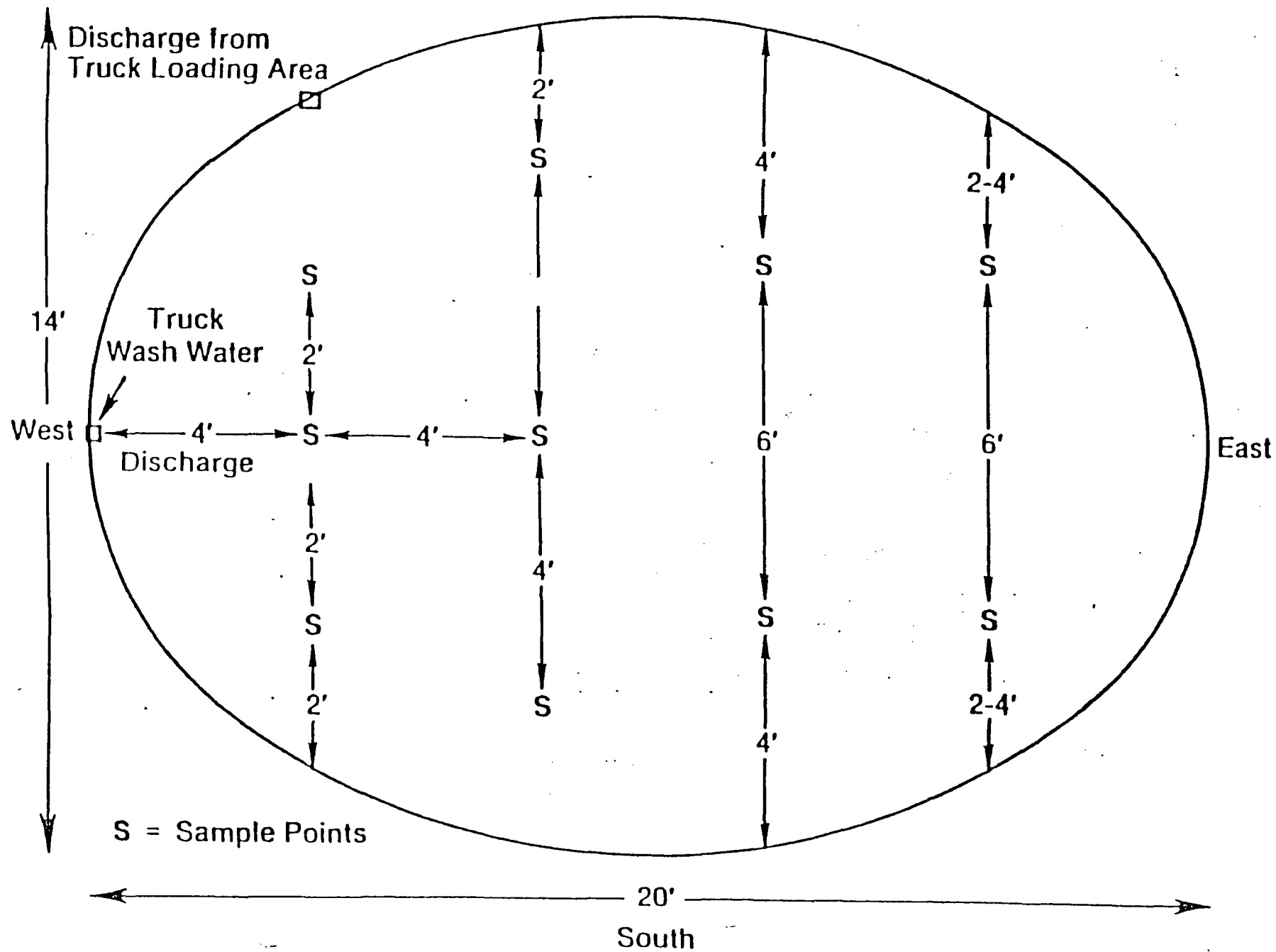
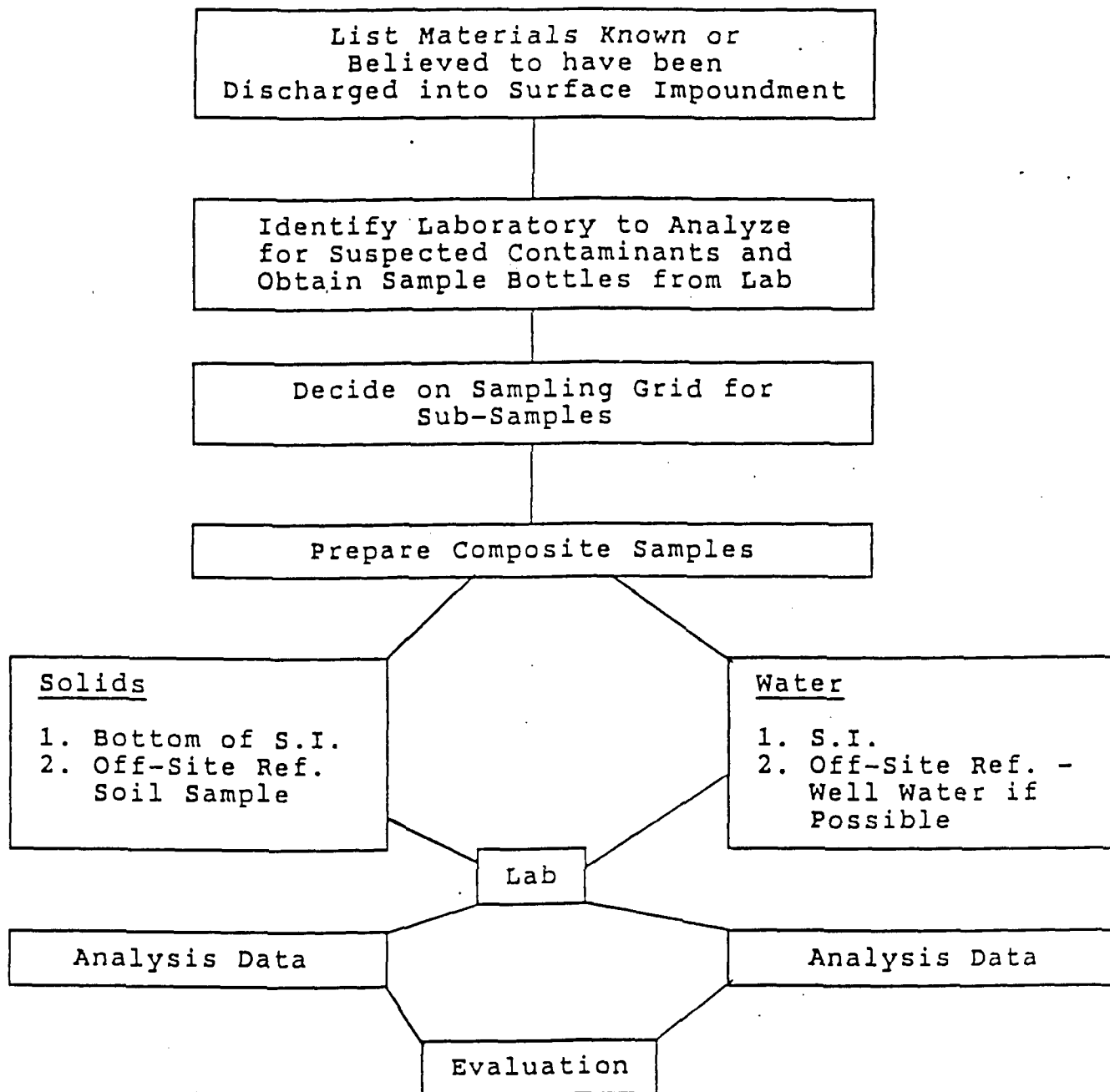


FIGURE 1 -- EXAMPLE OF SAMPLING GRID

FIGURE 2

FLOW CHART FOR SURFACE IMPOUNDMENT EVALUATION



X & XI

X. INSPECTION, MAINTENANCE & REPORTING

- A. See Inspection Report
 - 1. Frequency - monthly
 - 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:

ADDITIONAL ACTIONS OR COMMENTS

CORRECTIVE ACTION:

COMMENTS:

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

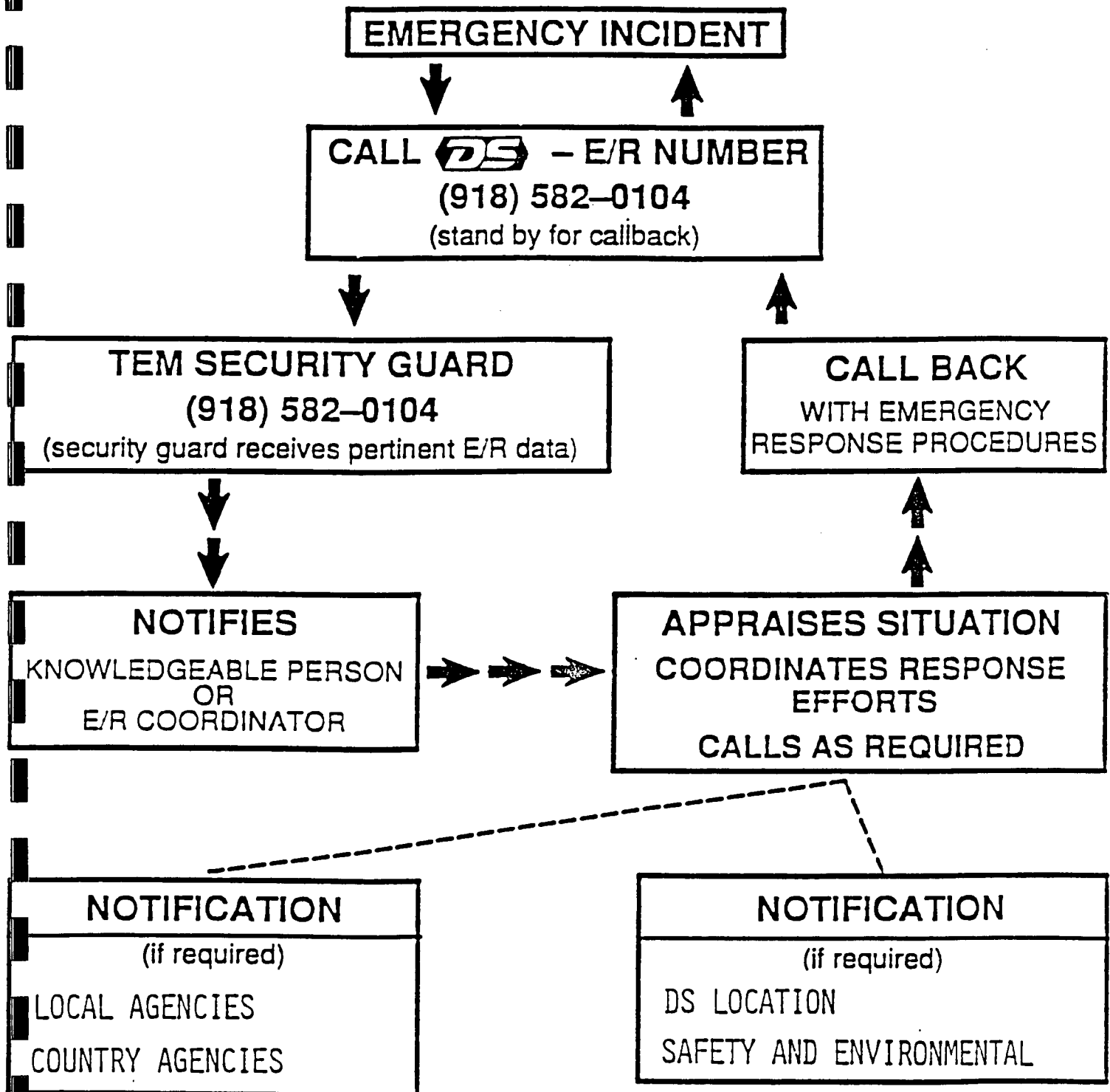
I. INCIDENT

- 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



XII

Geology

The surface in the area of the facility is underlain by a quartzose conglomerate alluvium of Quaternary age. The alluvium ranges in thickness from a feather edge to more than 300 feet and consists of clay, silt, sand, gravel, and conglomerate. The alluvium is thickest a few miles west of the Pecos River in the vicinity of the site and thins abruptly to the east and more gradually to the west of the site.

Soil development on the alluvial surface typically consists of approximately 30 inches of a pale brown, clayey loam which becomes progressively enriched with depth by calcium and gypsum. At the site this soil is underlain by alternating layers of clay and silty clay with minor interlayered beds of clayey silt and silty sand to a depth of 30 feet.

Hydrology

The Artesia area is underlain by a shallow aquifer contained within the Quaternary sediments and a deeper artesian aquifer contained within the Permian-age San Andres Formation.

Considerable published data are available on the deep artesian aquifer in the Artesia area. This aquifer is contained in the upper portion of the San Andres Formation. This aquifer is confined east of a point approximately 12 miles west of Artesia. West of this point the aquifer is unconfined. The water table has been lowered over 100 feet in some areas because of pumpage from the aquifer since the

1920s. At present no wells in this aquifer are known to be capable of artesian flow to the ground surface in this area.

The shallow aquifer is contained in the saturated portion of the Quaternary sediments. This shallow aquifer underlies all of the town of Artesia. At the site, water-bearing sands are encountered at a depth of 22 to 25 feet. Depth to water in the temporary monitor wells constructed at the site was approximately 15 feet. Therefore, it is apparent the shallow aquifer is confined. The hydraulic gradient is in an easterly direction toward the Pecos River.

Recharge to the shallow aquifer is largely from the Pecos River and the creeks flowing down from the highland areas on the west. Some recharge comes up from the confined artesian aquifer through the aquitard and along some of the faults present in this area.

LEGENDS
FACILITY / OFFSITE DISPOSAL

FACILITY LEGEND

T1	=	WASTE WATER TANK
T2	=	CEMENT BLOW-DOWN TANK
D1	=	ORANGE SOL
D2	=	USED DRUM STORAGE AREA
D3	=	SATELLITE USED MOTOR OIL DRUMS
D4	=	WASTE STORAGE AREA
D5	=	USED OIL FILTER DRUM
D6	=	"SATELLITE" OIL SKIMMER DRUM
F1	=	CONCRETE WASHBAY FLOOR DRAIN
L1	=	CONCRETE LINED WASHBAY PIT
S1	=	SEPTIC TANK

OFFSITE DISPOSAL LEGEND

1. Lab wastewater is disposed at Loco Hills.
2. Solvent/degreaser is supplied and reclaimed once used by Safety-Kleen, Inc.
3. Used motor oil is sent off-site for reclamation to be re-used as fuel. E & E Enterprise
4. Used oil filters are drained and disposed of at O & S Quik Change.
5. Disposal of cement/sand: sand disposal -Envirotech, cement disposal - Reused for fence posts, small slab give away.
6. City sewer explanation: Not discharging through city sewer. Use septic system.
7. Used drums and 5-gal containers are reconditioned by West Texas Drum Company.
8. None-hazardous contaminated soil is disposed at CRI. Any hazardous contaminated soil is scheduled for Dow Incineration, however, we have not generated.