GW - 99

GENERAL CORRESPONDENCE

YEAR(S):

2006 - 1995

HALLIBURTON

Post Office Box 960 • Farmington, NM 87499
Phone 505.324.3500 • Fax 505.327.2534

GW-99

2006 JUN 22 PM 12 53

June 19th, 2006

Mr. Wayne Price
Bureau Chief, Environment Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Price,

Thank you for your time on Friday June 9th, 2006 to discuss the acid incident of June 5th, 2006 that occurred at Halliburton Energy Services, Inc.'s (HESI's) facility at 4109 East Main Street in Farmington, NM with Denise Tuck, Gary Winn, and myself. As we discussed, a precautionary evacuation of approximately 200 people, was ordered by the Farmington Fire Department at approximately 10:30 PM on June 5th, after a release of approximately 20 gallons of FE-1A (40 percent acetic acid and 60 percent acetic anhydride) into a self-contained concrete, containment area during a loading operation. No chemical was released to ground or water, but a strong vinegar smelling odor developed while the incident was being brought under control. Within 3.5 hours, the acid released to the containment was recovered and neutralized and the all clear was sounded. No injuries to Halliburton personnel or the local residents have been reported.

From what we can surmise the incident occurred for two reasons:

- An employee did not follow our process of utilizing a Job Safety Analysis in conjunction with our acid loading procedure prior to loading the acid.
- We had a leak in the schedule 80 C-PVC transfer line at the flow-meter connection.

Subsequently, HESI has taken the following remedial actions to minimize/eliminate the risk of reoccurrence:

- The connection on the transfer line that began to fail has been repaired.
- Our internal processes of utilizing a Job Safety Analysis prior to acid loading has been reviewed and reinforced with our materials handling department.
- We have instituted a new process to transport and mix undiluted FE-1A on location in lieu of doing so at the facility. Diluted FE-1A will continue to be mixed at the facility.
- As a precautionary measure only, the schedule 80 C-PVC piping of the acid dock will be replaced. We expect that our contractor will be available the week of June 19th to perform this operation.

At the time of release we determined that a C-141 report was not required as any release to ground or water did not occur and all material released to the containment was recovered. Further, the vapor released during the incident did not meet criteria for reporting as per our on-location and Houston Health, Safety, and Environment support expertise determined at the time of the incident and that subsequent vapor concentration calculations have confirmed.

Thank you again sir for your time and attention to this matter. Please call me at 505.324.3513 Office, 505.793.7477 Cell, or e-mail me at edward.flemma@halliburton.com should you have any further questions.

Yours sincerely,

Edward R. Flemma
District Manager
Halliburton Energy Services
Farmington, NM

cc: Denise Tuck
Gary Winn
David Valdo, Health Compliance Officer, OSHA

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

2006 JUN 2 P3:35

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☑ Final Report

Name of Company Halliburton Energy Services, Inc.	Contact Edward Flemma, District Manager
Address 4109 East Main Street	Telephone No. 505-324-3513
Facility Name Halliburton Farmington	Facility Type Oil Field Services Facility

Surface Owner N/A	Mineral Owner N/A	Lease No. N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
								San Juan

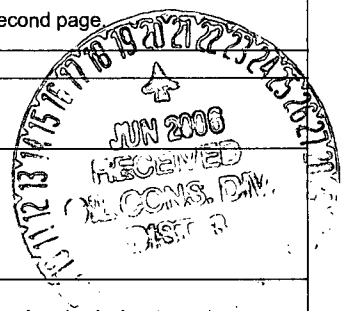
Latitude 36o72'84" **Longitude** 108o19'27"

NATURE OF RELEASE

Type of Release FE-1A leak to containment during acid loading operation	Volume of Release 20 gallons	Volume Recovered 20 gallons
Source of Release leaking transfer line	Date and Hour of Occurrence same	Date and Hour of Discovery 06/05/2006
Was Immediate Notice Given? ☐ Yes ☐ No ☑ Not Required	If YES, To Whom? N/A - See comments on second page.	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

No watercourse was impacted.



Describe Cause of Problem and Remedial Action Taken.*

The cause of the problem was: 1. An employee did not follow our process of utilizing a Job Safety Analysis in conjunction with our acid loading procedure prior to loading the acid; and, 2. There was a leak in the transfer line at the flow meter connection. Continued on second page.

Describe Area Affected and Cleanup Action Taken.*

Area Affected: The spill was contained so no soil or groundwater were affected.
Cleanup Actions Taken: 1) Material spilled in containment was neutralized and recovered.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Edward Flemma	OIL CONSERVATION DIVISION
Printed Name: Edward Flemma	Approved by District Supervisor: Jerry Sant for Charlie Perrin
Title: District Manager	Approval Date: 6/21/06 Expiration Date:
E-mail Address: Edward.Flemma@Halliburton.com	Conditions of Approval: Attached ☐
Date: 06/19/2006 Phone: 505-324-3513	

* Attach Additional Sheets If Necessary

Please note that this form is being submitted at the direction of Mr. Wayne Price and Mr. Denny Foust of OCD. Halliburton has not previously provided notice of this release because the release did not meet the criteria that trigger a reporting requirement. The release was less than five barrels, was contained, and did not reach soil or water. In addition the release did not have a reasonable probability to endanger public health. The concentrations of material in the air at the property line were conservatively modeled using SCREEN3 software and did not exceed the ACGIH and OSHA PEL- 8 hour TWA exposure limits.

Describe Remedial Action Taken: 1) The connection on the transfer line that began to fail has been repaired. 2) The internal processes of utilizing a Job Safety Analysis prior to acid loading has been reviewed and reinforced with the materials handling department. 3) A new process to transport and mix undiluted FE-1A on location in lieu of doing so at the facility has been instituted. Diluted FE-1A will continue to be mixed at the facility. 4) As a precautionary measure only, the Schedule 80 CPVC piping at the acid dock will be replaced.

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student completes the summer program does not determine if they will stay in the same grade for the next school year.

In order to make the camp more enjoyable, organizers have come up with a theme. The theme for this year's camp is "Blast from the Past" and some classes have used that theme to propel their work.

For instance, Vickie Sheley, a reading teacher, decided to have her students do research and learn about New Mexico history while making rockets.

"Because of the motto, I thought of rockets," said Sheley. "They get to research and interpret information that is tied to New Mexico."

The camp is only one program taking place in Farmington. At the elementary level there are several programs at a number of elementary schools. Activities vary at each location and are also directed toward a specific skill level.

"Any student in school who needs an extra boost (can be recommended)," said Tulley. "All of the elementary programs are Title I funded, so any student in

See **School** A7.

State officials downplay acid cloud

Oil Conservation Division bureau chief: 'This was a freak accident'

— By Cory Frolik —
The Daily Times

FARMINGTON — State officials are downplaying the formation of an acid cloud that caused the evacuation of more than 220 people on Monday night.

In a meeting with the Oil Conservation Division (OCD) on Friday, Halliburton Energy Services discussed the acid spill and the resulting vapor cloud.

By the end of the meeting, OCD administrators said they felt confident the spill was not due to negligence on behalf of Halliburton and that the company had things under control, according to Wayne Price, OCD environmental bureau chief.

"In my experience, Halliburton has had a state-of-the-art service yard, they go beyond the minimum requirements," he said. "I just think this was a freak accident that happened, an engineering problem that will be corrected."

The OCD implements and regulates New Mexico's ground water protection plan, according to the group's mission statement.

See **Accident** A7.

Responders say they're prepared for emergencies; residents unsure

— By Nathan Gonzalez —
The Daily Times

FARMINGTON — Twenty-seven-year-old Duranda Harrison said evacuation of the Animas Mobile Home Park where she lives on the city's east side, wasn't exactly as smooth as emergency responders claim.

Harrison and more than 220 other nearby residents

See **Emergencies** A5.

gas and geothermal activity in New Mexico while enforcing the division's rules and the state's oil and gas statutes.

Halliburton has a water discharge permit with the OCD, said Price, adding that the OCD has developed a working knowledge of the company's operations.

"They have an excellent record, they are a very good company and corporate citizens," he said.

Due to Halliburton being an OCD-regulated facility, the task of reviewing the chemical spill falls to that organization alone. The New Mexico Environment Department (NMED) does not investigate incidents occurring at oil and gas facilities, according to NMED Communications Director Adam Rankin.

The Occupational Safety and Health Administration (OSHA) is not investigating the incident because they have not received any health or safety complaints, according to Herman

Hernandez, OSHA compliance officer. OSHA would have been notified if three individuals had been hospitalized or if there was a fatality, he said. The most severe symptoms evacuees exhibited were coughing and burning eyes, according to the Farmington Fire Department.

Halliburton is not being fined for the leak by the OCD because the company did not violate any of the OCD's rules, Price said.

"(This incident) really fell between the cracks of the regulatory authority," he said, adding that the OCD protects only ground water, and in this instance, the material became vapor and never hit the ground.

If the company were cited it would be for an air quality violation, he added. The Four Corners Air Quality Task Force could not be reached for comment.

The Farmington Fire Department is seeking monetary reimbursement from Halliburton in the amount of $10,000 to cover the cost of their emergency response.

The acid spill occurred when piping "fell apart" while Halliburton employees were mixing acid in FE[illegible]an acetic acid used for fracturing oil wells.

"Basically it is a concentrated vinegar," Price said. In "an overabundance of precaution" Halliburton encouraged authorities to evacuate the nearby trailer parks because the smell would "cause fear and outrage," he said.

The acid Halliburton used was more "pungent" than harmful, Price said. Household vinegar, he added, is about 5 percent acidic, whereas Halliburton's fracturing agent is at about 30 percent.

"In a diluted form it is benign but rather obnoxious," he said.

Jess Benson, director of the New Mexico Poison Center in Albuquerque, said a 30-percent concentration can cause serious physical symptoms.

"What we would see with that is some irritation in the lungs or the skin. ... There can be coughing and choking, (it) could produce problems like a lot of fluid poring into the lungs," he said.

Acetic acid is used in most every type of well-fracturing , said Tom Dugan, president and operator of Dugan Production Corporation.

"It is an unusual occurrence to have a spill that bothers anyone," he said. "They are a good company and it was an accident that happened and no one got hurt and that's fortunate."

Monday's incident was not the first time Halliburton has been involved in a chemical spill in Farmington in recent years. Halliburton accidentally dumped 2,000 gallons of hydrochloric acid into Farmington's sewer system in December of 2000, according to a previous story in The Daily Times.

One Halliburton employee was reportedly injured while trying to clean up the spill, but on the whole, city wastewater officials said no significant effects resulted from the incident.

According to the National Response Center's database, in 2005 Halliburton reported 27 incidents involving chemical spills in the United States.

Television News that he saw U.S. soldiers beating an injured man

...qawi after the attack, Caldwell said he would check. In Washing-

...forest where the house was ne... just outside Baqouba, 35 m... northeast of Baghdad.

Emergencies

(Continued from Page A1)

were forced from their homes by Farmington fire and police personnel, after a potentially flammable acid gas cloud loomed over their Gila Street neighborhood following an industrial accident at Halliburton Energy Services Monday evening.

"Everyone was going to sleep because no one said anything," she said. "You have little ones in this neighborhood. ... They should have been more cooperative in letting us know what was going on."

Susan Pope, 37, who lives in the same park, said police didn't evacuate her family.

"Our landlord woke us up at 11:15. Police officers did not go door-to-door," she said noting that she never saw police until they began blocking E. Main Street and others in the area. "It happened at 10 o'clock. We didn't leave until 11:15. What if it had been a larger amount?"

However, the residents were never in serious harm as a result of the escaping cloud that blanketed the area with a strong vinegar smell, said Farmington Fire Chief Robert Martin.

"Nobody was going to die from this stuff," Martin said. "It's an irritant. But we decided to go ahead an evacuate them."

Martin said his department's Hazmat Team has trained specifically for acid spills, such as the one in Halliburton's yard, which kept people from their homes for about three hours.

After working with Halliburton staff, hazmat officials neutralized the acid spill. The task then turned to the ensuing plume of gas that escaped the containment area and threatened nearby homes where swamp coolers kept residents cool into the night.

Fire officials utilize computer software designed to map out the size of a gas plume and where it's migrated over time. Based on those computer models, fire and police officials can begin mobilizing and evacuating site-specific areas.

The Farmington Hazmat team has won national awards for its responses and handling of emergency scenarios, Martin said. The team took first place in a competition in Los Alamos earlier this year.

Following an evacuation, residents are collected in a centralized location. In Monday's incident, evacuees were directed to the Animas Valley Mall east of the spill and Gateway Park at Farmington Museum to the west.

"The mall presented a different problem," Martin said, adding that mall personnel "were caught off guard. They were under the assumption we were going to use the parking lot rather than the building."

Residents gathered at the mall grew frustrated because the manager refused to open the facility for use of bathrooms.

Lillian Rose, executive director of the San Juan Chapter of the American Red Cross, which is also mobilized to tend to evacuees, said following the spill, responders didn't anticipate keeping residents from their homes for an extended period of time. Had that been the case, a long-term shelter with cots would have been set up.

"The mall would not normally be a shelter set up," Rose said. "We have agreements with schools and churches. If it's going to take all night we are definitely going to set up a full-blown shelter. Then we can bring in cots, blankets and food."

Typically, the Red Cross selects shelter locations where people have access to showers, bathrooms and a kitchen.

"Each scenario can cause different responses. The safety of the community is first and foremost," Rose said.

On standby, while Farmin... Hazmat tended to the spill, ... county emergency responders.

County Emergency Man... Don Cooper, who has held ... position for 14 years, said ... county is fortunate to hav... regional hazmat team that co... the Four Corners area. Cooper ... he has "100 percent" confidenc... the hazmat team.

"It depends on what happe... Cooper said of situations w... hazmat would be called. "So... times it's unknown, but we h... special teams like Farming... Hazmat. We are very fortun... they are very well trained and ... equipped."

Farmington Hazmat has ag... ments with the county, Aztec ... Bloomfield to respond to h... ardous spills and other incide... but will respond wherever need... Martin said.

Cooper said chemical spills ... not uncommon within the cou... and area cities. Most often brol... gas lines and truck spills ca... evacuations, he said.

San Juan County, includi... Aztec, Bloomfield and Farmi... ton, has received more than ... million in federal funding sin... 9/11, Cooper said. Those fun... have gone toward preparing fi... police, hazmat and SWAT tea... for emergency situations.

Daily Times reporter Co... Frolik contributed to this story.

HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: **FE-1A ACIDIZING COMPOSITION**

Revision Date: 06-Apr-2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: FE-1A ACIDIZING COMPOSITION
Synonyms: None
Chemical Family: Organic acid Anhydride
Application: Additive

Manufacturer/Supplier
Halliburton Energy Services
P.O. Box 1431
Duncan, Oklahoma 73536-0431
Emergency Telephone: (281) 575-5000

Prepared By
Chemical Compliance
Telephone: 1-580-251-4335

2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Acetic acid	64-19-7	30 - 60%	10 ppm	10 ppm
Acetic anhydride	108-24-7	60 - 100%	5 ppm	5 ppm

3. HAZARDS IDENTIFICATION

Hazard Overview
May cause eye, skin, and respiratory burns. May be harmful if swallowed. Combustible. Reacts violently with water.

4. FIRST AID MEASURES

Inhalation
If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Skin
In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse. Destroy or properly dispose of contaminated shoes.

Eyes
In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Ingestion
Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician
Not Applicable

5. FIRE FIGHTING MEASURES

Flash Point/Range (F):	103
Flash Point/Range (C):	39
Flash Point Method:	PMCC
Autoignition Temperature (F):	630
Autoignition Temperature (C):	332
Flammability Limits in Air - Lower (%):	3
Flammability Limits in Air - Upper (%):	19

Fire Extinguishing Media Carbon Dioxide, Dry Chemicals, Foam. Water must not be used with open containers.

Special Exposure Hazards May be ignited by heat, sparks or flames. Closed containers may explode in fire. Decomposition in fire may produce toxic gases. Reaction with water may be highly exothermic.

Special Protective Equipment for Fire-Fighters Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

NFPA Ratings: Health 3, Flammability 2, Reactivity 2
HMIS Ratings: Flammability 2, Reactivity 2, Health 3

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment.

Environmental Precautionary Measures Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning / Absorption Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

Storage Information Store away from alkalis. Store away from oxidizers. Store away from water. Keep from heat, sparks, and open flames. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

Respiratory Protection Organic vapor/acid gas respirator.

Hand Protection Impervious rubber gloves.

Skin Protection Rubber boots. Full protective chemical resistant clothing.

Eye Protection Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions Eyewash fountains and safety showers must be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Clear colorless

Odor:	Pungent acrid
pH:	Not Determined
Specific Gravity @ 20 C (Water=1):	1.05
Density @ 20 C (lbs./gallon):	8.74
Bulk Density @ 20 C (lbs/ft3):	Not Determined
Boiling Point/Range (F):	259
Boiling Point/Range (C):	126
Freezing Point/Range (F):	Not Determined
Freezing Point/Range (C):	Not Determined
Vapor Pressure @ 20 C (mmHg):	11.7
Vapor Density (Air=1):	3.5
Percent Volatiles:	100
Evaporation Rate (Butyl Acetate=1):	0.97
Solubility in Water (g/100ml):	Soluble
Solubility in Solvents (g/100ml):	Not Determined
VOCs (lbs./gallon):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistrokes):	Not Determined
Partition Coefficient/n-Octanol/Water:	Not Determined
Molecular Weight (g/mole):	Not Determined

10. STABILITY AND REACTIVITY

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid	Keep away from heat, sparks and flame. Do not allow water to get into container because of violent reaction.
Incompatibility (Materials to Avoid)	Strong alkalis. Strong oxidizers. Reacts with water.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide.
Additional Guidelines	Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure	Eye or skin contact, inhalation.
Inhalation	Causes severe respiratory irritation.
Skin Contact	Causes severe burns.
Eye Contact	Causes severe eye burns.
Ingestion	Causes burns of the mouth, throat and stomach.
Aggravated Medical Conditions	Skin disorders. Eye ailments.
Chronic Effects/Carcinogenicity	Prolonged, excessive exposure may cause erosion of the teeth.
Other Information	None known.

Toxicity Tests

Oral Toxicity:	Not determined
Dermal Toxicity:	Not determined

Inhalation Toxicity:	Not determined
Primary Irritation Effect:	Not determined
Carcinogenicity	Not determined
Genotoxicity:	Not determined
Reproductive / Developmental Toxicity:	Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)	Not determined
Persistence/Degradability	Readily biodegradable
Bio-accumulation	Not Determined

Ecotoxicological Information

Acute Fish Toxicity:	Not determined
Acute Crustaceans Toxicity:	Not determined
Acute Algae Toxicity:	Not determined
Chemical Fate Information	Not determined
Other Information	Not applicable

13. DISPOSAL CONSIDERATIONS

Disposal Method	Disposal should be made in accordance with federal, state, and local regulations.
Contaminated Packaging	If empty container retains product residues, all label precautions must be observed. Store away from ignition sources. Transport with all closures in place. Return for reuse or disposal according to national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT
Corrosive Liquid, Flammable, N.O.S., 8, (3), UN2920, II, (39.4 C)
(Contains Acetic Anhydride, Acetic Acid)
NAERG 132

Canadian TDG
Corrosive Liquid, Flammable, N.O.S.(Contains Acetic Anhydride, Acetic Acid) , 8, (3), UN2920, II, (39.4 C)

ADR
UN2920,Corrosive Liquid, Flammable, N.O.S.(Contains Acetic Anhydride, Acetic Acid) , 8, (3), II

Air Transportation

ICAO/IATA
UN2920,Corrosive Liquid, Flammable, N.O.S., 8, (3), II
(Contains Acetic Anhydride, Acetic Acid Solution)

Sea Transportation

IMDG
Corrosive Liquid, Flammable, N.O.S.(Contains Acetic Anhydride, Acetic Acid) , 8, UN2920, II, (39.4 C), (3)
EmS F-E, S-C

Other Shipping Information

Labels: Corrosive
Flammable Liquid

15. REGULATORY INFORMATION

US Regulations

US TSCA Inventory	All components listed on inventory.
EPA SARA Title III Extremely Hazardous Substances	Not applicable
EPA SARA (311,312) Hazard Class	Acute Health Hazard Fire Hazard
EPA SARA (313) Chemicals	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).
EPA CERCLA/Superfund Reportable Spill Quantity For This Product	EPA Reportable Spill Quantity is 1409 Gallons based on Acetic acid (CAS: 64-19-7).
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of: Ignitability D001 Corrosivity D002
California Proposition 65	All components listed do not apply to the California Proposition 65 Regulation.
MA Right-to-Know Law	One or more components listed.
NJ Right-to-Know Law	One or more components listed.
PA Right-to-Know Law	One or more components listed.

Canadian Regulations

Canadian DSL Inventory	All components listed on inventory.
WHMIS Hazard Class	B3 Combustible Liquids E Corrosive Material

16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS
Not applicable

Additional Information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

*****END OF MSDS*****

THE SANTA FE
NEW MEXICAN
Founded 1849

EMNRD

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-099) - Halliburton Energy Services, Mr. Allen Rodrigue, 4109 East Main, Farmington, New Mexico 87401, has submitted a discharge plan renewal application for their Farmington Service Facility located in the NW/4 NE/4, Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. All waste water is collected then discharged into the City of Farmington Sewage Treatment System (POTW). Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 80 feet with a total dissolved solids ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 24th day of September, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY, Director
Legal #72327
Pub. Oct. 18, 2002

AD NUMBER: 286560 ACCOUNT: 56660
LEGAL NO: 72327 P.O.#: 03-199-00005
181 LINES 1 time(s) at $ 79.79
AFFIDAVITS: 5.25
TAX: 5.31
TOTAL: 90.35

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 #12327 a copy of which is hereto attached was published in said newspaper 1 day(s) between 10/18/2002 and 10/18/2002 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 18 day of October, 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 21 day of October A.D., 2002

Notary Laura E. Harding

Commission Expires 11/23/03

Jack

AFFIDAVIT OF PUBLICATION

Ad No. 46916

STATE OF NEW MEXICO
County of San Juan:

CONNIE PRUITT, being duly sworn says: That she is the Advertising Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s): Friday, October 18, 2002.

And the cost of the publication is $74.20.

Connie Pruitt

ON 10-30-02 CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

Jenny Beck

My Commission Expires April 2, 2004.

COPY OF PUBLICATION

918 Legals

NOTICE OF PUBLICATION

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

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

(GW-099) – Halliburton Energy Services, Mr. Allen Rodrigue, 4109 East Main, Farmington, New Mexico 87401, has submitted a discharge plan renewal application for their Farmington Service Facility located in the NW/4 NE/4, Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. All waste water is collected then discharged into the City of Farmington Sewage Treatment System (POTW). Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 80 feet with a total dissolved solids ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 24th day of September, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY, Director

Legal No. 46916, published in The Daily Times, Farmington, New Mexico, Friday, October 18, 2002.

Ford, Jack

From: Martin, Ed
Sent: Tuesday, October 15, 2002 8:19 AM
To: Farmington Daily Times (E-mail)
Cc: Ford, Jack
Subject: Public Notice

Please publish the attached legal notice, one time only, on or before Friday, October 18, 2002.
Upon publication, forward to this office:
1. Publisher's affidavit.
2. Invoice. Our purchase order number is **03-199-000048**

If you have any questions, please contact me. Thank you.

Publ. Notice
GW-099.doc

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

Ford, Jack

From: Martin, Ed
Sent: Tuesday, October 15, 2002 8:16 AM
To: Santa Fe New Mexican (E-mail)
Cc: Ford, Jack; Olson, William; Bruce S. Garber; Chris Shuey; Colin Adams; Director, State Parks; Don Fernald; Don Neeper; Eddie Seay; Gerald R. Zimmerman; Jack A. Barnett; James Bearzi; Jay Lazarus; Lee Wilson & Associates; Marcy Leavitt; Martin Nee; Mike Matush; Ned Kendrick; Regional Forester; Ron Dutton; Sectretary, NMED
Subject: Public Notices

Please publish the attached legal notices, one time only, on or before Friday, October 18, 2002.
Upon publication, forward to this office:
1. Publisher's affidavit.
2. Invoice. Our purchase order number is **03-199-000050**

If you have any questions, please contact me. Thank you.

Publ. Notice GW-099.doc Publ. Notice GW-277.doc Publ. Notice GW-052a.doc

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

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 24th day of September, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

for LORI WROTENBERY, Director

HALLIBURTON

4109 East Main • Farmington, NM 87402
phone 505.324.3540 • fax 505.324.3545

September 16, 2002

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
P.O. Box 2088 2040 South Pacheco
Santa Fe, NM 87501

Attn.: Jack Ford,

RE: Notification of Correction to Discharge Plan Application for 2002 Farmington, NM

Dear Mr. Ford,

During an internal review of the Discharge application recently submitted to the State of New Mexico for the Halliburton Farmington Facilities, it was discovered that the cover letter referenced the GW-99 plan instead of the GW-2002 plan. Please add this letter to your file as clarification for the submittal. The correct subject line should have stated: GW-2002 Discharge Plan. We apologize for any inconvenience this may have caused. Please don't hesitate to contact me with any questions or comments.

Respectfully,

Kellie J. Skelton
HSE Technical Professional
NWA Rocky Mountains

cc: Allen Rodrigue
File
NMOCD office, Aztec, NM
Jerry Beckman, Halliburton Requirements Management

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 8-29-02,

or cash received on _____ in the amount of $ 1700.00

from Halliburton Energy Svcs.

for Farmington Service Facility (Facility Name) GW-099 (DP No.)

Submitted by: _____ Date: 9-5-02

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

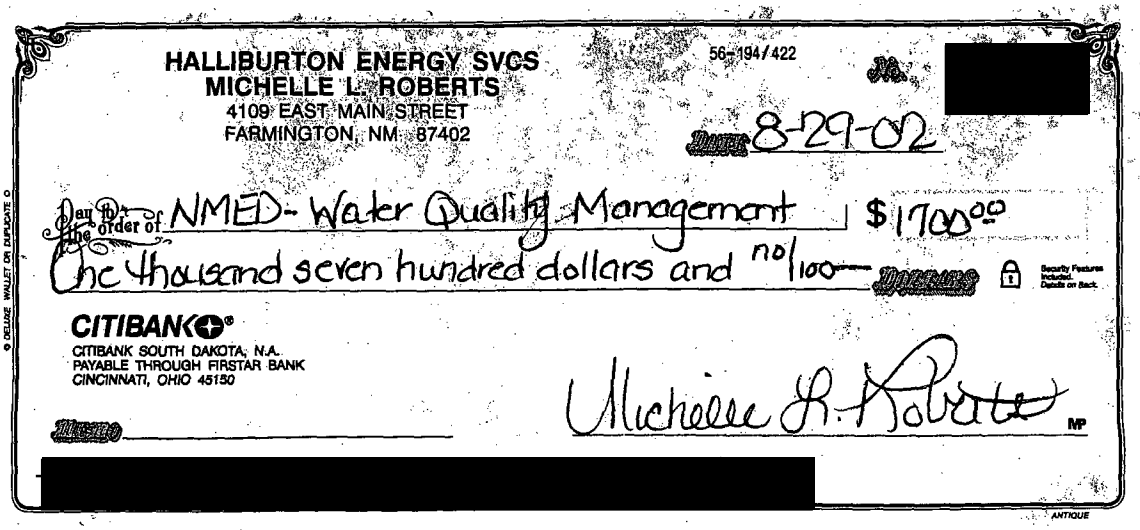
Filing Fee ~~✓~~ ___ New Facility ___ Renewal ✓

Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___



HALLIBURTON ENERGY SVCS
MICHELLE L. ROBERTS
4109 EAST MAIN STREET
FARMINGTON, NM 87402

56-194/422

No. [redacted]

Date 8-29-02

Pay To The Order Of NMED- Water Quality Management $ 1700.00

One thousand seven hundred dollars and no/100

CITIBANK
CITIBANK SOUTH DAKOTA, N.A.
PAYABLE THROUGH FIRSTAR BANK
CINCINNATI, OHIO 45150

Memo _____

Michelle L. Roberts

[redacted]

ANTIQUE

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 8-29-02,

or cash received on _____ in the amount of $ 100.00

from Halliburton Eng. Sv.

for Farmington Serv. Fac. GW-099

(Facility Name) (DP No.)

Submitted by: _____ Date: 9-5-02

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ✓ New Facility ___ Renewal ✓

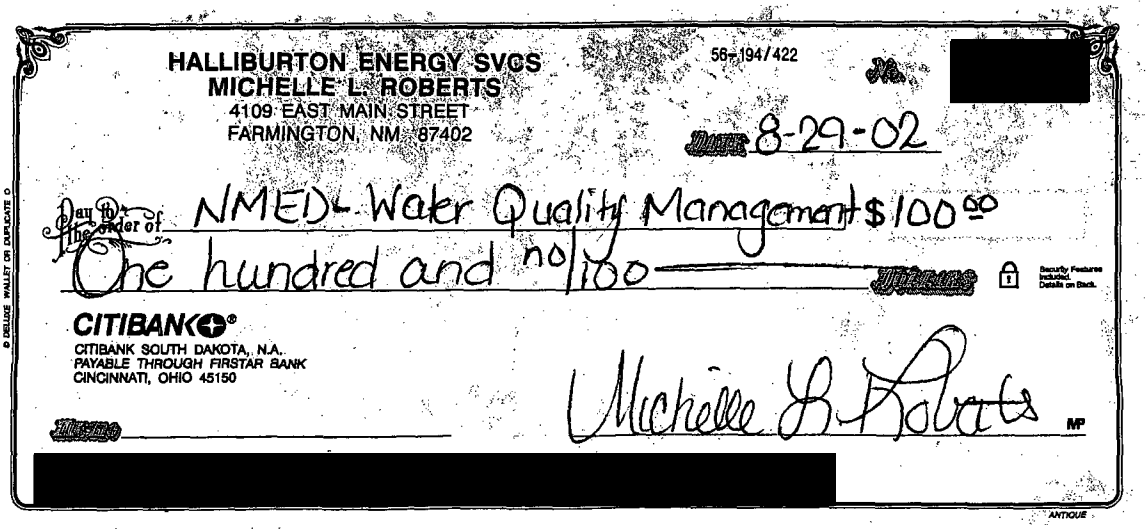
Modification ___ Other _____

(specify)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___



HALLIBURTON ENERGY SVCS
MICHELLE L. ROBERTS
4109 EAST MAIN STREET
FARMINGTON, NM 87402

56-194/422

No. [redacted]

DATE 8-29-02

Pay to the Order of NMED-Water Quality Management $100.00

One hundred and no/100

CITIBANK
CITIBANK SOUTH DAKOTA, N.A.
PAYABLE THROUGH FIRSTAR BANK
CINCINNATI, OHIO 45150

Michelle L. Roberts

MP

[redacted]

ANTIQUE

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

July 10, 2002

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 9048

Mr. Mike Cornforth
Senior Environmental Coordinator
Halliburton Energy Services
P.O. Drawer 1431
Duncan, Oklahoma 73536-0108

RE: Discharge Plan Renewal Notice

Dear Mr. Cornforth:

Halliburton Energy Services has the following discharge plan, which expires during the current calendar year.

GW-099 expires 12/30/2002 – Farmington Service Facility

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

The discharge plan renewal application for each of the above facilities is subject to WQCC Regulation 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.

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**).

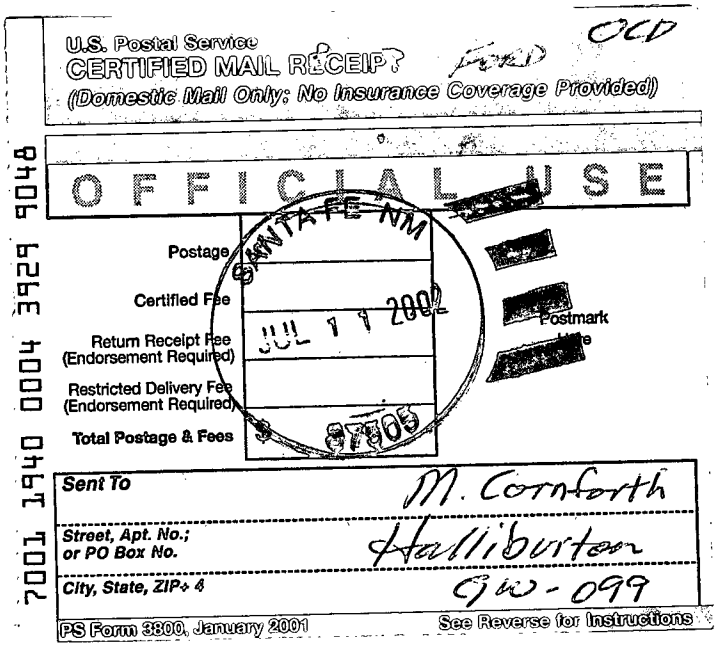
If any of the above-sited facilities no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If Halliburton Energy Services has any questions, please do not hesitate to contact Mr. Jack Ford at (505) 476-3489.

Sincerely,

Roger C. Anderson
Oil Conservation Division

RCA/wjf

cc: OCD Aztec District Office



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

July 23, 2001

Lori Wrotenbery
Director
Oil Conservation Division

Ms. Kellie Skelton
Halliburton Energy Services
4109 East Main Street
Farmington, New Mexico 87401

RE: MICRO MAX DISPOSAL

Dear Ms. Skelton:

The Oil Conservation Division (OCD) is in receipt of your request for disposal of Micro max dry material utilized for downhole cementing operations. Based upon information provided in your request letter and the attached safety data sheets of the material the OCD would classify this as unused dry chemical material under 19.15.9.712.D.3.(g). As such, your request is **hereby approved** for disposal into the San Juan County landfill.

Your estimate of amount of such material to be generated at the facility is misleading. Please review your letter and provide the OCD with the correct information. If you have any questions contact me at (505) 476-3489.

Sincerely,

W. Jack Ford, C.P.G.
Environmental Bureau

cc: OCD Aztec District Office
Ms. Martyne Kieling, OCD Santa Fe Office

Jack Foud

HALLIBURTON

HALLIBURTON ENERGY SERVICES

4109 East Main Street / Farmington, NM 87401

June 29, 2001

Denny Foust
Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM
87410

Dear Denny Foust,

Subject: Request for Micro Max Disposal

Halliburton Energy Services respectfully requests the disposal of Micro max from our Main yard facility into the San Juan County Landfill. An unused dry chemical is still in its original container. We make this request in accordance with the disposal rule 7-12 paragraph D.3g of the New Mexico disposal regulations.

Sincerely,

Kellie Skelton
HSE Technical Professional

cc: Allen Rodrigue
file

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178 Fax (505)334-6170

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main St. Farmington, NM. 87401	Waste Management of New Mexico Crouch Mesa Landfill 78 Road 3140 Farmington NM 87401
3. Originating Site (name): Warehouse SAA. Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Micromax- Unused dry chemical Rule 712 D.3(g)	

I, Allen J. Rodrigue (Print Name) representative for: Halliburton Energy Services do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

___ **EXEMPT** oilfield waste

X **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste the following documentation is attached (check appropriate items):

X MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Allen J Rodrigue

Title: Shared Service Supervisor

Date: 06-12-01

HALLIBURTON

Safety Data Sheet (93/112/EC)

MICROMAX

Revision Date: 22/03/2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of Substances or Preparation

Product Trade Name: MICROMAX
Synonyms: None
Chemical Family: Not determined

Company Undertaking Identification
Halliburton Energy Services
Hill Park Court,
Springfield Drive
Leatherhead
Surrey KT22 7NL
United Kingdom

Emergency Phone Number: +44 117 927 0086 or +1 713 676 3000

Prepared By
Product Stewardship
Telephone: 1-580-251-4335

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Weight Percent (%)	UK OEL/MEL	Germany MAK/TRK	Netherlands MAC	EEC Classification
Manganese tetraoxide 1317-35-7	60 - 100%	1 mg/m3	0,5 mg/m3	1 mg/m3	Not applicable

3. HAZARDS IDENTIFICATION

Hazard Overview
May cause Parkinson's Disease-like symptoms.

4. FIRST AID MEASURES

Inhalation
If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Skin
Wash with soap and water. Get medical attention if irritation persists.

Eyes
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Ingestion
Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician
Not Applicable

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
All standard fire fighting media

Unsuitable Extinguishing Media
None known.

Special Exposure Hazards
Not applicable.

Special Protective Equipment for Fire-Fighters
Not Determined

NFPA Ratings: Health 1, Flammability 0, Reactivity 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures
Use appropriate protective equipment. Avoid creating and breathing dust.

Environmental Precautionary Measures
None known.

Procedure for Cleaning/Absorption
Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions
Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust.

Storage Information
Store in a cool, dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
Use in a well ventilated area. Localized ventilation should be used to control dust levels.

Respiratory Protection
Dust/mist respirator.

Hand Protection
Cloth gloves.

Skin Protection
Normal work coveralls.

Eye Protection
Wear safety glasses or goggles to protect against exposure.

Other Precautions
Not Determined

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Colour:	Red brown
Odour:	Odourless
pH:	Not Determined
Specific Gravity @ 20 C (Water=1):	4.8
Density @ 20 C (kg/l):	Not Determined
Bulk Density @ 20 C (kg/M3):	Not Determined
Boiling Point/Range (C):	Not Determined
Freezing Point/Range (C):	Not Determined
Flash Point/Range (C):	Not Determined
Flash Point Method:	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (g/l):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (g/l):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined
Vapor Pressure @ 20 C (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	Not Determined
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Miscible
Solubility in Solvents (g/100ml):	Not Determined
Solubility in Sea Water (g/100ml):	Not Determined
VOCs (g/l):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistrokes):	Not Determined
Partition Coefficient/n-Octanol/Water:	Not Determined
Molecular Weight (g/mole):	Not Determined
Decomposition Temperature (C):	Not Determined

10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid
None anticipated

Incompatibility (Materials to Avoid)
None known.

Hazardous Decomposition Products
None known.

Additional Guidelines
Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure
Eye contact. Inhalation. Skin contact.

Inhalation
May cause Metal Fume Fever which is characterized by chills, fever, aching muscles, dryness and metal taste in mouth and throat, headaches, sneezing, nausea, and irritation of the nose and trachea.

Skin Contact
None known.

Eye Contact
None known.

Ingestion
Not determined

Aggravated Medical Conditions
None known.

Chronic Effects/Carcinogenicity
Prolonged or repeated exposure may result in manganism. Symptoms are similar to Parkinson's disease.

Other Information
None known.

Toxicity Tests

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity
Not determined

Genotoxicity: Not determined

Reproductive/Developmental Toxicity: Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)
Not determined

Persistence/Degradability
Not determined

Bio-accumulation
Not Determined

Ecotoxicological Information

Acute Fish Toxicity:	Not determined
Acute Crustaceans Toxicity:	Not determined
Acute Algae Toxicity:	Not determined

Chemical Fate Information
Not determined

Other Information
Not applicable

13. DISPOSAL CONSIDERATIONS

Disposal Method
Bury in a licensed landfill according to federal, state, and local regulations. If not contaminated, reuse product.

Contaminated Packaging
Product may be stored in reusable containers. Do NOT contaminate. Transport with all closures in place.

14. TRANSPORT INFORMATION

Land Transportation

ADR
Not restricted

Air Transportation

ICAO/IATA
Not restricted

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

June 14, 2001

Lori Wrotenbery
Director
Oil Conservation Division

Ms. Kellie Skelton
Halliburton Energy Services
4109 East Main Street
Farmington, New Mexico 87401

RE: COPPER SLAG DISPOSAL

Dear Ms. Skelton:

The Oil Conservation Division (OCD) is in receipt of your request for disposal of Copper Slag blasting material utilized for paint preparation at the Halliburton Farmington Service facility. Based upon information provided in your request letter and the attached laboratory analysis of the material the OCD would classify this as sandblasting sand material under 19.15.9.712.D.2.(n). As such, your request is **hereby approved** for disposal into the San Juan County landfill.

Your estimate of amount of such material to be generated at the facility is misleading. Please review your letter and provide the OCD with the correct information. If you have any questions contact me at (505) 476-3489.

Sincerely,

W. Jack Ford, C.P.G.
Environmental Bureau

cc: OCD Aztec District Office
Ms. Martyne Kieling, OCD Santa Fe Office

Martyne Kreling

HALLIBURTON

HALLIBURTON ENERGY SERVICES

4109 East Main Street / Farmington, NM 87401

June 4,2001

Denny Foust
Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM
87410

Dear Denny Foust:

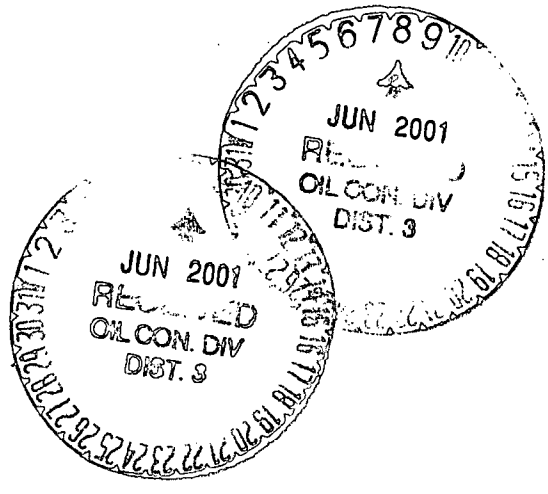
SUBJECT: REQUEST FOR COPPER SLAG DISPOSAL

Attached are the results of the TCLP analysis performed on Copper Slag used in paint and blasting area of the Main Yard facility. It is Halliburton Energy Service's request to take this to the San Juan County Landfill. Disposal will be an approximated 40,00 pounds per year. Please review the included documents and notify us of approval or the appropriate disposal requirements. Thank you, and if you have any questions or comments, please contact me at 505-324-3540.

Sincerely,

Kellie Skelton
HSE Technical Professional
Halliburton Energy Services

ks
cc: Allen Rodrigue



paint shop
Copper slag

HALLIBURTON ENERGY SERVICES

DUNCAN TECHNOLOGY CENTER - DUNCAN, OKLAHOMA
A HALLIBURTON COMPANY

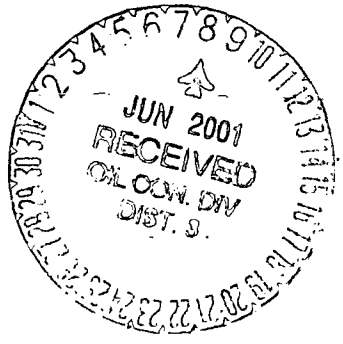
ANALYTICAL SERVICES

PROJECT REPORT

To: Mr. Bill Loughridge
Halliburton Energy Services
4109 East Main
Farmington, NM 87401

BN0461094-00

July 14, 2000



Title: **HES Copper Slag**

Prepared By: Kathy Black

Submitted for: **TCLP Metals**

Marked: Copper Flag from Paint Shop

PURPOSE

The purpose of this project was to analyze the submitted sample according to the procedures outlined in the EPA publication "Test Methods for Evaluating Solid Wastes, Volume IC, EPA SW 846, Method 1311, "Toxicity Characteristics Leaching Procedure", 1992. The extract was digested by EPA SW 846, Method 3051.

CONCLUSION

The data section of this report contains the information generated from the sample. Environmental regulations concerning disposal of wastes are extremely complex. Therefore, it is advised that an opinion from Regulatory Affairs be obtained prior to disposal of any wastes.

PROCEDURES

The data in this report was generated following published EPA procedures.

RESULTS

Results By ICP:

Metal	Sample (mpl)	Blank (mpl)
Arsenic	<0.1	<0.1
Barium	0.41	<0.05
Cadmium	0.05	<0.01
Chromium	0.21	<0.01
Lead	0.21	<0.05
Selenium	<0.1	<0.1

Quality Control:

Metal	Lab Control %R
Arsenic	95
Barium	103
Cadmium	94
Chromium	101
Lead	97
Selenium	104

DATA BOOK REFERENCE

Section	Book No.	Page No.(s)
Analytical Services	9058	39

cc: Eddie Watson
Rick Eason

Respectfully submitted,

HALLIBURTON ENERGY SERVICES

Laboratory Analyst
K. Black, D. Blanton
rok

By Kathy Black
Kathy Black

Ford, Jack

From: Ford, Jack
Sent: Friday, September 15, 2000 10:03 AM
To: 'Jim.Haney@Halliburton.Com'
Cc: Foust, Denny
Subject: Approval of Temporary Tank Installation

Dear Mr. Haney:

The OCD is in receipt of your notification of the installation of a temporary acid tank at Halliburton's Farmington facility (GW-099). Based upon the information furnished in your request and our telephone discussion this date the OCD herewith approves the temporary use of the poly acid tank. If you have any questions please contact me at (505) 827-7156.

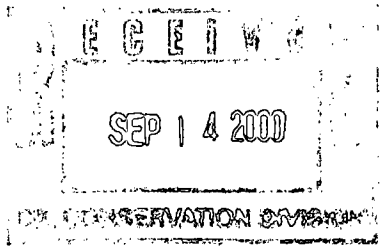
W. Jack Ford
Oil Conservation Division

HALLIBURTON

HALLIBURTON ENERGY SERVICES

4109 East Main Street / Post Office Box 960 \ Farmington, NM 87499-0960 / 505-324-3500 / Fax: 505-327-2534

September 11, 2000



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

RE: **Halliburton Energy Services**
Farmington Facility
San Juan County, New Mexico

Dear Jack Ford

We are moving in a 6,000 gal poly tank for temporary storage of HCL acid. The tank will be placed in the containment structure we currently have in operation. We are conducting an inspection of our existing tank and it has to be emptied for the inspection. If you need additional information and/or clarification please advise. My phone number is (505) 324-3504 and my e-mail address is Jim.Haney@Halliburton.Com.

Regards,

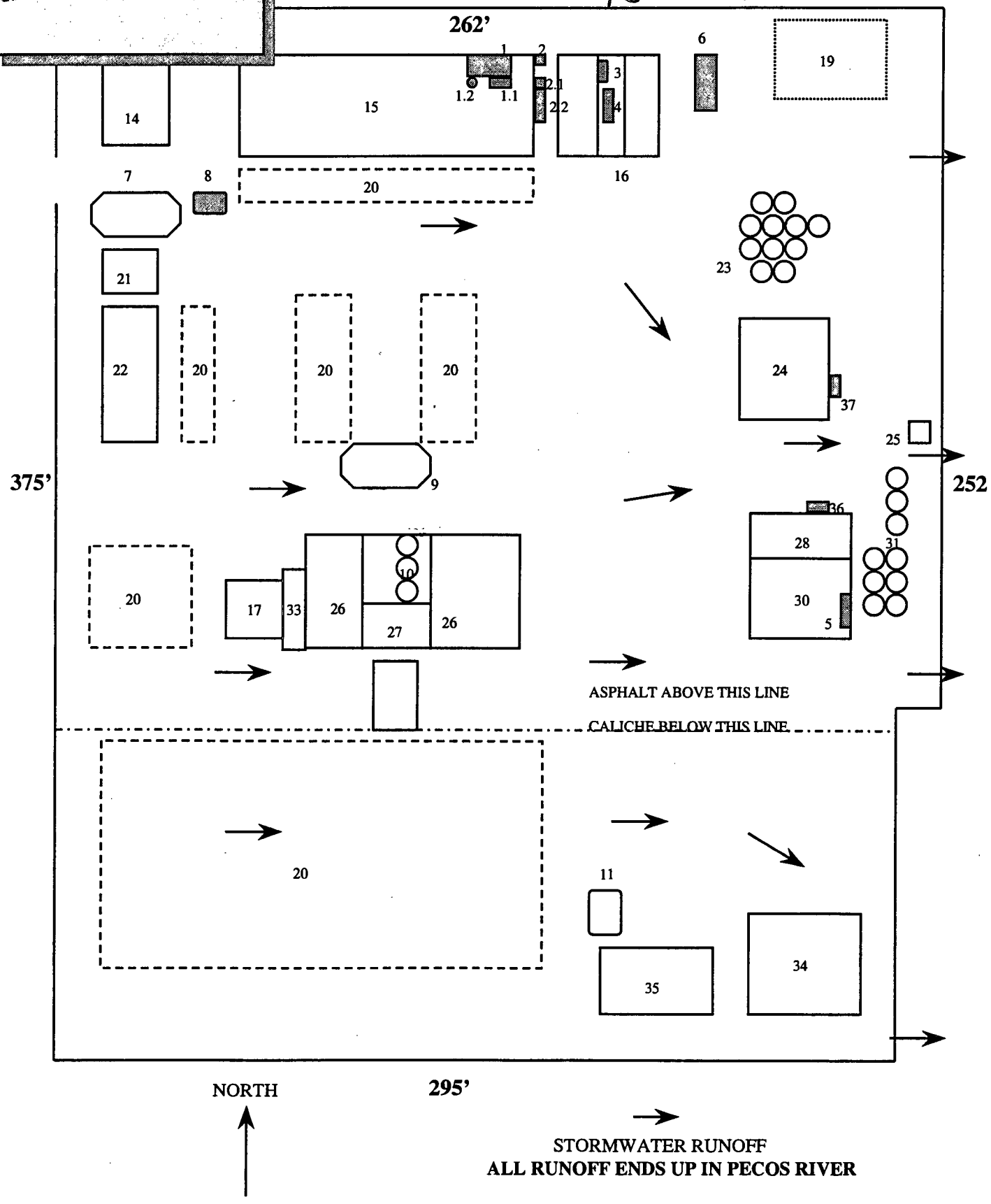
James L. Haney
Shared Services Supervisor
Halliburton Energy Services

CC:
Denny G. Foust – Deputy O&G Inspector

HALLIBURTON SHARED SERVICES:

ALLIBURTON ENERGY SERVICES
2311 SOUTH FIRST STREET
ARTESIA, NEW MEXICO

Updated ~~06-19-98~~ 10-16-98



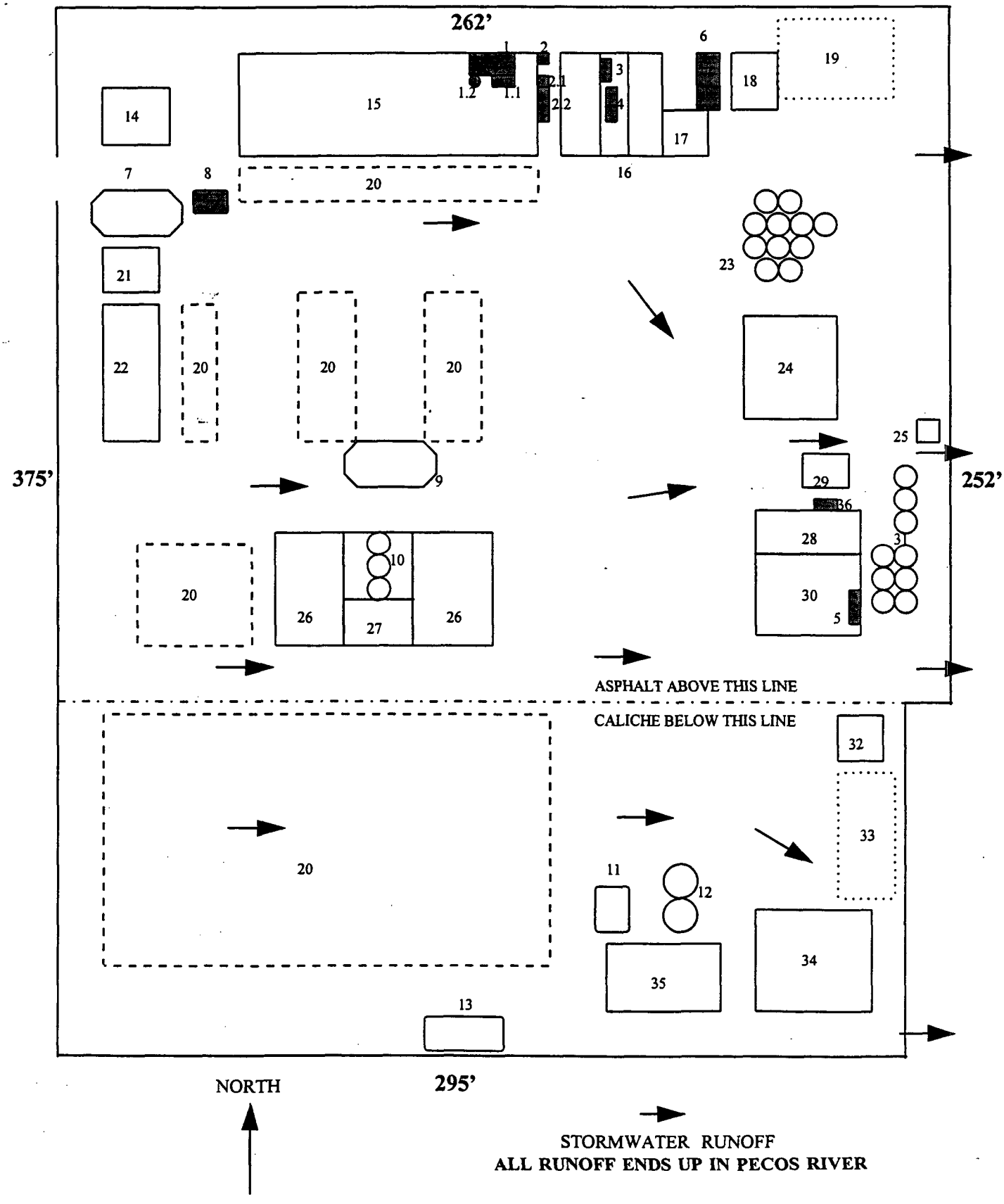
HALLIBURTON ENERGY SERVICES
2311 SOUTH FIRST STREET
ARTESIA, NEW MEXICO

Updated 10-12-98

1. New Anti-freeze - 220 gallon
1.1 New 15/40 Oil - 2 @ 275 gallon
1.2 New 80w-90 Oil - 55 gallon
1.2 New Tractor Hydraulic - 55 gallon
2. Used Oil-325 gallon
2.1 Used Oil-115 gallon
2.2 Used Anti-freeze - 3 drums @ 55 gallon
3. New Oil-275 gallon
3. Rock Drill Oil-275 gallon
4. Hydraulic Oil, 90 wt. Oil, Grease - 4 drums @ 55 gallon
5. Assorted Liquid Chemicals, 55 gallon drums & 5 gallon buckets
6. Oil/Water Separator- Abandoned
7. UST Gasoline Leak-Remediation in Process
8. Gasoline Storage Tank-500 gallon
9. Control Station-Remediation in Process
10. Underground Grit Tanks
11. Fresh Water Tank
14. Office Building
15. Truck Shop
16. Grease Rack
17. Head Rack
18. Plug Room
19. Outside Equipment Storage
20. Cement pump truck vehicle Parking
21. Office Building
22. Office Building and Field Lab
23. Bulk Cement Storage Tanks*
24. Cement Additive Warehouse*
25. Densometer Storage
26. Wash Rack
27. Grit Pit
28. Tool Shop
30. Warehouse
31. Sand Storage Tanks*
34. Chemical Terminal*
35. Chemical Additive Room*
36. Soap Tank - 275 gallon
37. Radioactive Storage

*OUT OF SERVICE

HALLIBURTON ENERGY SERVICES
2311 SOUTH FIRST STREET
ARTESIA, NEW MEXICO



HALLIBURTON ENERGY SERVICES
2311 SOUTH FIRST STREET
ARTESIA, NEW MEXICO

1. New Anti-freeze - 220 gallon
1.1 New 15/40 Oil - 2 @ 275 gallon
1.2 New 80w-90 Oil - 55 gallon
1.2 New Tractor Hydraulic - 55 gallon
2. Used Oil-275 gallon
2.1 Used Oil-115 gallon
2.2 Used Anti-freeze - 3 drums @ 55 gallon
3. New Oil-275 gallon
3. Rock Drill Oil-275 gallon
4. Hydraulic Oil, 90 wt. Oil, Grease - 4 drums @ 55 gallon
5. Assorted Liquid Chemicals, 55 gallon drums & 5 gallon buckets
6. Oil/Water Separator- Abandoned
7. UST Gasoline Leak-Remediation in Process
8. Gasoline Storage Tank-320 gallon
9. AST Diesel Tank Leak-Remediation in Process
10. Underground Grit Tanks
11. Fresh Water Tank
12. Underground Neutralization Tanks*
13. Flochek Tank-Empty*
14. Office Building
15. Truck Shop
16. Grease Rack
17. Head Rack
18. Plug Room
19. Outside Equipment Storage
20. Vehicle Parking
21. Office Building
22. Office Building and Field Lab
23. Bulk Cement Storage Tanks*
24. Cement Additive Warehouse*
25. Densometer Storage
26. Wash Rack
27. Grit Pit
28. Tool Shop
29. Tool Storage
30. Warehouse
31. Sand Storage Tanks*
32. Pump Packing Room
33. Outside Equipment Storage
34. Chemical Terminal*
35. Chemical Additive Room*
36. Soap Tank - 275 gallon

*OUT OF SERVICE

Jack Ford

District I
1625 N. French Dr. Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MAR 2000 RECEIVED OIL CON. DIV. DIST. 3

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Contact
HALLIBURTON ENERGY SERVICES	ROBERT SMITH / JIM HANEY
Address	Telephone No.
4109 E. MAIN ST. FARMINGTON N.M. 87401	505-324-3500
Facility Name	Facility Type
MAIN STREET FACILITY	YARD

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
LGC-8	15 GALLONS	15 GALLONS
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
LGC-8 LOAD LINE	3-27-00 2:30 PM	3-27-00 2:30 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? DENNY FAUST	
By Whom? JIM HANEY	Date and Hour 3-27-00 2:51 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.* BOLTS ON VICTAULIC COUPLING (LGC-8 LOAD LINE) HAD BEEN LOOSENED BY UNKNOWN PERSON/PERSONS. WHEN PUMP ON LGC-8 LOADING SYSTEM WAS ENGAGED THE COUPLING SPRAYED OUT 15 GALLONS OF LGC-8 ONTO PAVEMENT INFRONT OF THE CEMENT BULK TANKS.
COUPLING WAS REPAIRED ADDITIONAL SLURRY HAS BEEN ADDED.

Describe Area Affected and Cleanup Action Taken.*
LGC-8 PICKED UP WITH ABSORBENT MATERIAL.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

	OIL CONSERVATION DIVISION
Signature: ROBERT SMITH	Approved by District Supervisor: Denny G. Faust for Frank Chavez
Printed Name: ROBERT SMITH	
Title: HSE ADVISOR	Approval Date: 3/31/2000 Expiration Date:
Date: 3-28-00 Phone: 505 324 3500	Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

nDGF0000044

HALLIBURTON®

HALLIBURTON ENERGY SERVICES

4109 East Main Street / P.O. Box 960 / Farmington, New Mexico 87499-0960 / Tel: 505-324-3500 / Fax: 505-327-2534

October 5, 1998

Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

RE: Discharge Plan Renewal GW-099

Halliburton Energy Services
Farmington Facility
San Juan County, New Mexico

Dear Roger C. Anderson:

Please find enclosed the signed copy of the conditions of approval for the Discharge Plan GW-099. If you need additional information and/or clarification please advise. My Phone number is (505) 324-3504 and my e-mail address is Jim.Haney@Halliburton.Com.

Regards,

James L. Haney
Shared Services Supervisor
Halliburton Energy Services

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

May 29, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-357-869-968

Mr. Mike Cornforth
Sr. Environmental Specialist
Halliburton Energy Services
P.O. Box 1431
Duncan, Oklahoma 73536-0108

RE: Minor Modification
Construction Projects
Farmington Facility GW-099
Halliburton Energy Services

Dear Mr. Cornforth:

The New Mexico Oil Conservation Division (OCD) has received a notification, dated May 15, 1998 proposing the construction of a contained liquid chemical storage, larger contained washrack drying area, and a contained empty container storage area at the Halliburton Farmington facility (GW-099) located in the NW/4 NE/4 of Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. The request is considered a minor modification to the above referenced discharge plan and public notice will not be issued. **Based upon information supplied with the proposal the requested minor modification is hereby approved.**

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

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

The OCD approval does not relieve Halliburton Energy Services of liability should operation of the facility result in contamination of surface waters, ground waters or the environment.

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

Sincerely,

W. Jack Ford, C.P.G.
Geologist
Environmental Bureau
Oil Conservation Division

cc: OCD Aztec District Office

Z 357 869 968

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

Sent to Mike Cornforth	
Street & Number Halliburton	
Post Office, State, & ZIP Code Duncan, OK	
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 GW-099	

PS Form 3800, April 1995

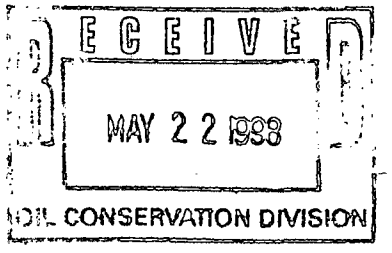
HALLIBURTON

HALLIBURTON ENERGY SERVICES

Post Office Drawer 1431 / Duncan, Oklahoma 73536-0108 / Tel: 405-251-4197 / Fax: 405-251-3969

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

May 15, 1998



Attn: Jack Ford

Re: GW-99 Discharge Plan
Farmington Service Facility
San Juan County, New Mexico

Dear Mr. Ford,

By way of this letter I am notifying you of modifications proposed for the Halliburton Energy Services Facility, located at 4109 E. Main, Farmington, NM. These modifications will affect the GW-99 Discharge Plan. The proposed modifications include:

Construction of a contained, liquid chemical container storage area
Construction of a larger, contained washrack grit drying area
Construction of a contained empty container storage area

All construction will be above-grade. Details of the modifications will be provided upon completion of the construction to assure utmost accuracy.

These modifications will not create any additional discharges. Furthermore, these modifications, once completed will decrease the potential for the facility to impact the stormwater runoff. We will continue to operate under the original discharge plan criteria until the permit is renewed.

For more information, please feel free to contact me at the letterhead number.

Sincerely,

Mike Cornforth
Sr. Environmental Specialist

cc: Jim Haney, Shared Services Supervisor
Tom Allen, Environmental Coordinator
Pat Cook, HSE Manager

HALLIBURTON

DUNCAN, OKLAHOMA 73536

CORP 36081

CHECK DATE 12/16/97

[redacted]

091

FORM 4083

INVOICE DATE	INVOICE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10 03 97	CKR100397A FARMINGTON NM DISCHARGE PLAN RENEWAL-FLAT FEE	690.00	.00	$ 690.00
	VENDOR= 36081	690.00	.00	$ 690.00

GW-099

JZ

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN ABOVE. NO RECEIPT OTHER THAN ENDORSEMENT IS NECESSARY. IF NOT CORRECT RETURN BOTH STATEMENT AND CHECK.

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 12/16/97

or cash received on _____ in the amount of $ 690.00

from Halliburton

for Farmington (Facility Name) GW099 (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: R. Cloud Date: 3/27/98

Received in ASD by: _____ Date: _____

Filing Fee ___ New Facility ___ Renewal X

Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 98

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

VOID AFTER 60 DAYS [redacted] 62-20 311

HALLIBURTON

HALLIBURTON ENERGY SERVICES

Citibank Delaware
a subsidiary of Citicorp
1 E. PENN'S WAY
NEW CASTLE, DE
19720

VENDOR NO.	DATE	AMOUNT
36081	12 16 97	$*******690.00

PAY TO THE ORDER OF

NMED-WATER QUALITY MANAGEMENT
OIL CONSERVATION DIVISION
2040 SOUTH PACHECO STREET
SANTA FE NM 87505

Jerry H. Dutton

[redacted]

HALLIBURTON

DUNCAN, OKLAHOMA 73536

CORP 36081

CHECK DATE 12/16/97

[redacted]

091

FORM 4083

INVOICE DATE	INVOICE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10 03 97	CKR100397 FARMINGTON NM DISCHARGE PLAN RENEWAL FILING FEE	50.00	.00	$ 50.00
	VENDOR= 36081	50.00	.00	$ 50.00

GW-099

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN ABOVE. NO RECEIPT OTHER THAN ENDORSEMENT IS NECESSARY. IF NOT CORRECT RETURN BOTH STATEMENT AND CHECK.

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 12/16/97

or cash received on _____ in the amount of $ 50.00

from Halliburton

for Farmington (Facility Name) GW-099 (OCD No.)

Submitted by: _____ Date: _____

Submitted to ASD by: RC Chavez Date: 3/27/98

Received in ASD by: [illegible] Date: _____

Filing Fee X R New Facility ___ Renewal ___

Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 98

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

VOID AFTER 60 DAYS

[redacted]

62-20
311

HALLIBURTON

HALLIBURTON ENERGY SERVICES

tibank Delaware
subsidiary of Citicorp
PENN'S WAY
V CASTLE, DE
20

VENDOR NO.	DATE	AMOUNT
36081	12 16 97	$*********50.00

PAY TO THE ORDER OF

NMED-WATER QUALITY MANAGEMENT
OIL CONSERVATION DIVISION
2040 SOUTH PACHECO STREET
SANTA FE NM 87505

Jerry H. Blust

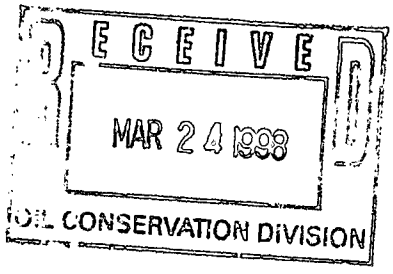
[redacted]

HALLIBURTON

HALLIBURTON ENERGY SERVICES

Post Office Drawer 1431 / Duncan, Oklahoma 73536-0108 / Tel: 405-251-4197 / Fax: 405-251-3969

March 20, 1998



State of Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87501

Attention: Mr. Jack Ford

RE: GW-99 Plan
Farmington Service Center

Dear Mr. Ford:

Attached are two copies of the Stormwater Plan for the Farmington facility. The plan is Attachment V. of the Discharge Plan. I noted on the application that this plan was forthcoming. Please insert in the appropriate place. Another copy of this plan is being sent to the Aztec office for inclusion in the application they received.

Attachment VI., Spill Contingency Plan, is being developed with the aid of an outside consulting firm. The Contingency Plan will be site specific with chemical specific response information. Completion date is estimated to be mid-June for the Farmington facility. This has been completed for the Hobbs and Artesia facilities.

If questions arise, please call me at the letterhead number.

Sincerely,

Mike Cornforth

Mike Cornforth
Sr. Environmental Specialist

c: Mr. Jim Haney
Mr. Tom Allen
NMOCD, Aztec, New Mexico

HALLIBURTON

DUNCAN, OKLAHOMA 73536

CORP 36081

CHECK DATE: 12/16/97

[redacted]

INVOICE DATE	INVOICE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10 03 97	CKR100397 FARMINGTON NM DISCHARGE PLAN RENEWAL FILING FEE	50.00	.00	$ 50.00
	VENDOR= 36081	50.00	.00	$ 50.00

GW-099

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN ABOVE. NO RECEIPT OTHER THAN ENDORSEMENT IS NECESSARY. IF NOT CORRECT RETURN BOTH STATEMENT AND CHECK.

VOID AFTER 60 DAYS

[redacted]

62-20
311

HALLIBURTON

HALLIBURTON ENERGY SERVICES

Citibank Delaware
A Subsidiary of Citicorp
ONE PENN'S WAY
NEW CASTLE, DE
19720

VENDOR NO.	DATE	AMOUNT
36081	12 16 97	$*********50.00

PAY TO THE ORDER OF

NMED-WATER QUALITY MANAGEMENT
OIL CONSERVATION DIVISION
2040 SOUTH PACHECO STREET
SANTA FE NM 87505

[redacted]

HALLIBURTON

DUNCAN, OKLAHOMA 73536

CORP 36081

CHECK DATE 12/16/97

[redacted]

INVOICE DATE	INVOICE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10 03 97	CKR100397A FARMINGTON NM DISCHARGE PLAN RENEWAL-FLAT FEE	690.00	.00	$ 690.00
	VENDOR= 36081	690.00	.00	$ 690.00

GW-099

JJ

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VOID AFTER 60 DAYS

[redacted]

HALLIBURTON

HALLIBURTON ENERGY SERVICES

Citibank Delaware

ONE PENN'S WAY
NEW CASTLE, DE
19720

VENDOR NO.	DATE	AMOUNT
36081	12 16 97	$*******690.00

PAY TO THE ORDER OF

NMED-WATER QUALITY MANAGEMENT
OIL CONSERVATION DIVISION
2040 SOUTH PACHECO STREET
SANTA FE NM 87505

[redacted]

AFFIDAVIT OF PUBLICATION

No. 39016

STATE OF NEW MEXICO
County of San Juan:

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

Monday, February 2, 1998

and the cost of publication is: $64.83

Denise H. Henson

On 2-9-98 DENISE H. HENSON appeared before me, whom I know personally to be the person who signed the above document.

Reese Nelson

My Commission Expires November 1, 2000

COPY OF PUBLICATION

Legals

NOTICE OF PUBLICATION

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

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

(GW-099) - Halliburton Energy Services, Michael Cornforth, (405) 251-4197, P. O. Drawer 1431, Duncan, Oklahoma 73536-0108, has submitted a discharge application for the Halliburton Service facility located in the NW/4 NE/4 of Section 1, Township 29 North, Range 13 West NMPM, San Juan County, New Mexico. Approximately 2,200 gallons per day of waste water is collected in the truck washrack and floor sump then discharged into the City of Farmington Sewage Treatment System (POTW). Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 80 feet with a total dissolved solids concentration ranging from 600 mg/1 to 900mg/1. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), 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 and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 15th day of January 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

/s/Kathleen A. Garland
KATHLEEN A. GARLAND, Acting Director

SEAL

Legal No. 39016 published in The Daily Times, Farmington, New Mexico on Monday, February 1998.

The Santa Fe New Mexican

Since 1849 We Read You

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

AD NUMBER: 9292 ACCOUNT: 56689

LEGAL NO: 62953 P.O. #: 98-199-00257

RECEIVED
FEB - 5 1998
OIL CONSERVATION DIVISION

168 LINES ONCE at $ 67.20

Affidavits: 5.25

Tax: 4.53

Total: $ 76.98

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 15th day of January 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
KATHLEEN A. GARLAND,
Acting Director

Legal #62953
Pub. January 29, 1998

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, BETSY PERNER being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily news paper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 62953 a copy of which is hereto attached was published in said newspaper once each WEEK for ONE consecutive week(s) and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 29 day of JANUARY 1998 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ Betsy Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 29 day of JANUARY A.D., 1998

Notary B. Mathie
Commission Expires 3-13-2001

OFFICIAL SEAL
B. MATHIE
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 3-13-2001

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

January 26, 1998

THE NEW MEXICAN
202 E. Marcy
Santa Fe, New Mexico 87501

RE: NOTICE OF PUBLICATION

PO #96-199-002997

ATTN: Betsy Perner

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. *Publisher's affidavit.*
2. *Invoices for prompt payment.*

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice on Thursday, January 29, 1998

Sincerely,

Sally Martinez

Sally E. Martinez
Administrative Secretary

Attachment

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTM

P 261 262 842

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

Sent to	
Street & Number	
Post Office, State, & ZIP Code	Farmington Daily Times
Postage	P.O. Box 450 Farmington, NM 87401
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	(Jack)

PS Form 3800, April 1995

January 26, 1998

Farmington Daily Times
Attention: Advertising Manager
Post Office Box 450
Farmington, New Mexico 87401

Re: Notice of Publication

2 NOTICES

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. ***Publisher's affidavit in duplicate.***
2. ***Statement of cost (also in duplicate).***
3. ***Certified invoices for prompt payment.***

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than February 2, 1998.

Sincerely,

Sally Martinez

Sally Martinez
Administrative Secretary

Attachment

NOTICE OF PUBLICATION

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

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

(GW-099) - Halliburton Energy Services, Michael Cornforth, (405) 251-4197, P. O. Drawer 1431, Duncan, Oklahoma 73536-0108, has submitted a discharge application for the Halliburton Service facility located in the NW/4 NE/4 of Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 2,200 gallons per day of waste water is collected in the truck washrack and floor sump then discharged into the City of Farmington Sewage Treatment System (POTW). Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 80 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), 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 and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 15th day of January 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

KATHLEEN A. GARLAND, Acting Director

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 15th day of January 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

KATHLEEN A. GARLAND, Acting Director

HALLIBURTON

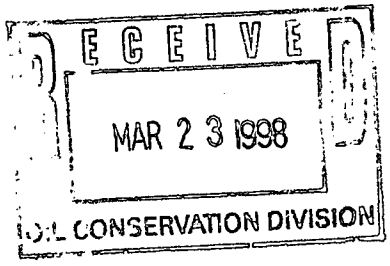
HALLIBURTON ENERGY SERVICES

Post Office Drawer 1431 / Duncan, Oklahoma 73536-0108 / Tel: 405-251-4197 / Fax: 405-251-3969

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
P.O. Box 2088 2040 South Pacheco
Santa Fe, NM 87501

March 19, 1998

Attn: Jack Ford



RE: GW-99 Discharge Plan
Farmington Service Facility

Dear Mr. Ford,

Attached to this letter are two copies of Halliburton's application for a Discharge Permit as per Sections 3104 and 3105 of the WQCC Regulations. Another copy of the application has been sent to the Aztec Office.

Two checks are also included. One for the $50 filing fee and one for $690 covering the flat fee for service companies.

You will notice that two of the attachments are missing. Attachment V, Stormwater Pollution Prevention Plan and Attachment VI, Spill Contingency Plan. These plans are being revised to coincide with the Discharge Plan. These two plans will be sent shortly under separate cover.

If any questions arise I will still be the contact.

Once again I want to thank you for your help and patience.

Sincerely

Mike Cornforth
Sr. Environmental Coordinator

cc: Jim Haney
Tom Allen
File
NMOCD office, Aztec, NM

HALLIBURTON

HALLIBURTON ENERGY SERVICES

Post Office Drawer 1431 / Duncan, Oklahoma 73536-0108 / Tel: 405-251-4197 / Fax: 405-251-3969

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
P.O. Box 2088 2040 South Pacheco
Santa Fe, NM 87501

March 19, 1998

Work Copy

Attn: Jack Ford

RE: GW-99 Discharge Plan
Farmington Service Facility

Dear Mr. Ford,

Attached to this letter are two copies of Halliburton's application for a Discharge Permit as per Sections 3104 and 3105 of the WQCC Regulations. Another copy of the application has been sent to the Aztec Office.

Two checks are also included. One for the $50 filing fee and one for $690 covering the flat fee for service companies.

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Mike Cornforth
Sr. Environmental Coordinator

cc: Jim Haney
Tom Allen
File
NMOCD office, Aztec, NM

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

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

Revised 12/1

Submit Origi
Plus 1 Cop
to Santa
1 Copy to appropri
District Off

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

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

☐ New ☒ Renewal ☐ Modification

1. Type: Oilfield Service Facility
2. Operator: Halliburton Energy Services

   Address: P. O. Box 960, Farmington, NM 87499

   Contact Person: Jim Haney Phone: _____
3. Location: NW /4 NE /4 Section 1 Township 29N Range 13W

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

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

    NAME: Mike Cornforth Title: Sr. Environmental Specialist

    Signature: Mike Cornforth Date: 3/19/98

DISCHARGE PLAN APPLICATION

Part 1. Type of Operation

Oil Field Service Facility

Part 2. Name of Operator or Legally Responsible Party and Local Representative

Halliburton Energy Services
P.O. Box 960
Farmington, New Mexico 87499

Local Contact: Mr. Jim Haney (505) 324-3500

Part 3. Location of the Discharge Plan Facility

The Farmington Facility is located in the NW/4 NE/4, Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico.

Part 4. Landowners

Halliburton Energy Services, Inc.
5151 San Felipe
Houston, Texas 77056

Part 5. Facility Description

The **Farmington Halliburton Energy Services** facility is located at 4109 E Main, Farmington, NM 87402. The primary services provided are hydraulic fracturing, cementing and acidizing oil and gas wells. Maintenance of trucks and oilfield service equipment, blending and loading of liquid and non-liquid chemicals and storage of these chemicals occurs at this facility. A description of these activities is provided below:

The facility layout is depicted in Attachment I.

Chemical Terminal (Labeled Chemical Terminal on Attachment I)
Hydrochloric acid is stored, in concentrated form, in a steel, rubber-lined enclosed tank. The tank is within a coated concrete secondary containment. Connections for loading of the acid are located within the secondary containment. Any spills occurring inside the containment are recovered, transferred to a storage tank and reused.

Additional chemical additives are stored in the acid additive drum storage area. Additives are stored in either DOT quality drums or portable containers. This area is curbed for secondary containment.

Acid is loaded onto Halliburton transports from an overhead line through a hatch on the top of the transport. The transport is located on a coated concrete loading bay during the loading process. The loading bay is equipped with a trough that leads directly to the chemical terminal secondary containment. Spills in the secondary containment area drain to a sump, is pumped into the acid return tank and reused.

A liquid gel concentrate is stored and loaded from this same area. The gel concentrate is a solution of gel in diesel. The gel concentrate is stored in an enclosed tank within secondary containment. Loading and mixing operations occur on the same loading bay as the acid. Sacks of gel are stored inside a warehouse prior to mixing. Also, certain drummed chemical additives for the gel concentrate system are stored in same warehouse. Any spills occurring inside the warehouse are immediately cleaned and properly disposed.

Cement Bulk Storage Area (Labeled as such on Attachment I)
Bulk cement and cement additives are stored in a series of fully enclosed storage vessels. Sacked cement additives are stored in the cement material warehouse. Any spills occurring inside the warehouse are immediately cleaned and properly disposed. Mixing and transferring of materials from the cement bulk plant to the truck is done pneumatically. A dust collection system is used to control emissions from the facility while handling the bulk chemicals and additives.

Sand Bulk Plant Area (Attachment I)
All materials stored in this area are non-liquid, dry chemicals. Bulk sand and proppants are stored in fully enclosed storage vessels. Loading and unloading of the sand is done pneumatically.

Maintenance Shop (Labeled Truck Shop on Attachment I)
Truck maintenance is performed in enclosed shops. The main truck shop is equipped with a concrete foundation and curbing that is self contained. Any spills in the shop area cannot escape the shop area are immediately cleaned and properly disposed. Three solvent based parts washers are located in the Maintenance shop area. Truck servicing is performed in the main shop. All used oil is collected in a used oil tank. The used oil tank is located in the wash rack area within concrete secondary containment. Used oil filters are drained at least 12 hours and placed in a drum and shipped to our TSDF and waste management facility in Duncan, OK and are ultimately recycled.

Wash Rack Area (Labeled Wash on Attachment I)
Truck and equipment washing is performed in this area. The building is roofed and walled on three sides. The structure is designed to capture overspray, wash water and grit. Each wash bay drains to a sump for grit separation. The sumps drain to a three stage oil/water separator, then to the sewer.

Adjacent to the wash rack is a concrete pad for drying washrack grit. The grit is removed from the sumps on a regular basis, placed on the drying slab, allowed to dry and sent to a land treatment facility. The drying slab is contained on three sides with concrete walls and on the fourth side by a removable steel plate to allow access and removal of the grit. (South East Corner of Wash Bay, Attachment I)

Trucks and equipment are lubricated in the Grease Room in the Washrack area. Lubricants are stored in bulk storage tanks, drums and pails, all of which are within concrete secondary containment and are covered.

Drum Storage Area (Located directly between the Chemical Terminal and Tools on Attachment I)
The drum and portable container storage area is constructed with a paved floor and curbing for secondary containment. An inspection of this area is conducted daily, and documented weekly. Any spills or leaks in this area is cleaned and disposed of properly as they are discovered.

Truck and Equipment Parking Areas (Attachment I)
Oilfield service trucks and equipment are parked in the areas labeled on Attachment I.

Miscellaneous
In addition to the above, certain other waste management practices are followed. Trash containers are conveniently located throughout the facility and are regularly emptied by a waste management service. Paved surfaces are inspected and cleaned as required. Weeds and debris are removed as needed. Good housekeeping practices are adhered to at this facility.

Past Spills, Leaks and Stormwater Runoff
There have been no significant spills at this facility in the past three years.

The facility is constructed such that all stormwater runoff leaves the property at one point just south of the paint shop and denoted on Attachment I by the arrow pointing south. The facility receives significant stormwater runon from adjacent properties and roads on the north and west.

Part 6. **Materials Stored or Used at the Facility**

A complete list of chemical products utilized in servicing oil wells is included in this application as Attachment II.

	Name	General Makeup or Specific Brand	Solid or Liquid	Type of Container	Estimated Volume Stored	Location
1.	Drilling Fluids	None				
2.	Brines (KCl, NaCl, etc.)	Weak NaCl	Liquid	Tank	Neutralized HCl	Chemical Terminal
3.	Acids/Caustics	Hydrochloric acid	Liquid	Tank	13,000 gal	Chemical Terminal
4.	Detergents/Soaps	Howco Suds	Liquid	Drum	165 gal	Drum Area
		AQF II	Liquid	Drum	440 gal	Drum Area
		SSO 21MW	Liquid	Drum	660 gal	Drum Area
		Washrack Soap	Liquid	Drum	55 gal	Washrack Area
5.	Solvents & Degreasers	Safety Kleen	Liquid	Drum	20 gal	Shop, Grease room
6.	Paraffin Treatment/ Emulsion Breakers	Lo Surf	Liquid	Drum	275 gal	Drum Storage Area
7.	Biocides	BE-6	Solid	Can	400 lbs	Cement Sand
		BE-3S	Solid	Can	40 lbs	Plant
8.	Other Materials	Poz Mix A	Solid	Tank	142,000 lbs	Cement & Sand
		Cement	Solid	Tank	279,000 lbs	Plant
		Gilsonite	Solid	Tank	80,000 lbs	"
		Sand	Solid	Tank	842,000 lbs	"
		Flyash	Solid	Tank	3,750 lbs	"
		Gelling Agents	Liquid	Sack/Can	1,000 lbs	Drum Storage
		Gel Breakers	Liquid	Sack/Can	1,000 lbs	"
		Emulsifiers	Liquid	Drum/Pail	500 gal	"
		De-emulsifiers	Liquid	Drum/Pail	100 gal	"
		Inhibitors	Liquid	Drum/Pail	200 gal	"
		Crosslinkers	Liquid	Tote/Drum	1000 gal	"

Part 7. A. **Sources and Quantities of Effluent and Waste Solids Generated at the Facility**

	Waste Type	Types of major effluent	Quantities (per month)	Major Additives
1.	Truck Wastes	Neutralized Acid Returns	2500 gal	NaCl
2.	Truck Washing	Wash Water Grit	65,000 gal 16 cu. yds	Soap
3.	Steam Cleaning	Not applicable		
4.	Solvent/Degreaser Use	Safety Kleen (Three Units)	60 gal	Oils and Greases
5.	Spent Acids	Hydrochloric Acid Returns (Unused)	2500 gal.	
6.	Waste Slop Oil	Not applicable		
7.	Used Lubricants and Oils	Lube Oil and Crankcase Oil	185 gal	None
8.	Oil Filters	From Trucks and Engines	54 filters	None
9.	Tank Solids and Sludges	Not applicable		
10.	Painting Wastes	Safety Kleen	20 gal	
11.	Sewage	Sanitary sewage commingled with Industrial waste water from truck washing operation	65,000 gal	Soap
12.	Laboratory Wastes	Water Samples Crude Oil Samples Cement Samples	5 gal 5 gal 20 lbs	
13.	Other waste liquids	Off-Spec, out of date chemicals	100 gal	
14.	Other waste solids	Off-Spec, out of date chemicals Used drums	2 drums 100 ct.	

7. B. Quality Characteristics

1. **Truck Wastes**
Unused acid is the only significant waste returning to the facility in trucks. The acid returns are neutralized to a pH greater than 2, with sodium bicarbonate or equivalent, while still in the transport. The material is then transferred to a holding tank within the secondary containment of the chemical terminal. This "salt" water is used for makeup water on subsequent acid blends.

2. **Truck Washing**
The external components of the trucks and equipment are washed with water and soap. The primary constituents of the washwater effluent is grit, hydraulic oils, water, etc. The washwater mixture passes through a three bay oil/water/grit separator. The separator is concrete with a chemical resistant liner. The oil is trapped, removed with a belt type oil skimmer and collected in a drum. The drummed oil is then transferred to the Used Oil tank which is within secondary containment. The used oil is removed periodically by a waste oil recycler and taken off-site.

The washrack grit is sampled annually, utilizing a random grab sampling and compositing technique to ensure representative results. The composite sample is subjected to the Toxic Characteristic Leaching Procedure and for Corrosivity, Reactivity and Ignitibility. The results of the most recent test is included as Attachment III. The grit is removed periodically, dried on a designated grit drying bed. The grit is treated in a off-site commercial land treatment unit owned and operated by Enviro-Tech of Farmington, NM. The water travels to the local POTW through the sewer system.

3. **Steam Cleaning** Not Applicable

4. **Solvent and Degreasers**
Three Safety-Kleen brand parts washers, at the facility, are serviced every month, generating sixty gal/month. The parts washers are used for cleaning truck and equipment parts prior to maintenance.

5. **Spent Acids**
Acid returns are brought back to the facility, neutralized and managed as described in 7.B.1

6. **Waste Slop Oil** Not Applicable

7. **Used Lubricants and Oils**
Lube oils, crankcase oils and other used oils generated at the facility are collected in a secondarily contained tank located in the washrack area. The oils are removed by a waste oil recycler and hauled off-site. Management of these oils is as per 40 CFR 270.

8. **Oil Filters**
Oil filters generated at the facility are "hot-drained" for at least 12 hours, containerized and shipped by Halliburton truck to the TSDF in Duncan, OK. Once in Duncan, the filters, along with others, are shipped to a used oil filter recycler, through Specialty Environmental Services.

9. **Tank Solids and Sludges** Not Applicable

10. **Painting Wastes**
Painting wastes generated at the facility are recycled by use of a Safety-Kleen paint gun cleaner. All waste paint related materials are managed/recycled by Safety-Kleen.

11. **Sewage**
Sewage from bathrooms and kitchens are commingled with washrack water to the local POTW.

12. **Laboratory Wastes**
A small lab used for testing stimulation and completion products is located in the bulk cement plant warehouse. Wastes generated are primarily water with trace amounts of stimulation and completion chemicals, as well as other lab reagents. The waste water enters the sewer to the local POTW.

Oil samples are collected and either added to the used oil tank or shipped by company truck to the Halliburton TSDF in Duncan, OK for further management.

Cement retain samples are stored for a period of time and disposed of in the local landfill via the dumpster.

13. **Other Liquid Wastes**
Out of date or off-spec liquid chemical products are stored in a designated waste storage area located inside the southeast corner of the cement bulk plant warehouse. This storage area meets the requirements of 40 CFR 264 for small quantity generators. If the wastes are hazardous as per 40 CFR 261, they are managed accordingly. If nonhazardous, they are labeled as such, and stored in the same area. All chemical wastes generated at this facility are returned to the Duncan TSDF on company trucks, accompanied with a hazardous waste manifest within 180 days of being deemed waste.

14. **Other Solid Wastes**
Out of date or off-spec solid chemicals, are labeled as either hazardous or nonhazardous, stored in the designated waste storage area and returned to the TSDF in Duncan, OK via company truck. Pallets are returned to the Duncan TSDF for reuse or recycle. Chemical sacks are emptied and placed into dumpsters on site and sent to local landfill as are cardboard and paper products.

Empty drums and pails are stored in a designated empty container storage area. The drums are stored on their sides with bungs in place and tight, positioned with bungs horizontal to the ground. All empty containers, 5 gals in volume or larger, are returned to the Duncan TSDF and then shipped off-site to a metal recycler, drum recycler or plastic recycler as appropriate. The drums are "RCRA empty" prior to storage.

Part 8. A. **Summary of Existing Liquid and Solid Waste Collection and Disposal**

	Waste Type	Tank(T)/ Drums(D)	Floor Drain(F) Sumps (S)	Offsite Disposal
1.	Truck Wastes	Neutralized Returned Acid	Sump to Tank	Reused in subsequent ac blends
2.	Truck Washing	Only Truck and Equipment Washing	(S)	Wastewater to POTW Grit to Landfill by Truc
3.	Steam Cleaning	Not applicable		
4.	Solvent/Degreaser Use	(D) Safety Kleen		Safety Kleen/truck
5.	Spent Acids	(T) Collected in tank at chemical terminal		Reused in acid blends
6.	Waste Slop Oil	Not applicable		
7.	Waste Lubrication and Motor Oils	(T)		Waste Oil Recovery Co. by Truck
8.	Oil Filters	(D)		Halliburton TSDF in Duncan OK by Co. Truc
9.	Tank Solids and Sludges	Not applicable		
10.	Painting Wastes	(D)		Safety Kleen by Truck
11.	Sewage			POTW Sanitary Sewer
12.	Laboratory Wastes			POTW Sanitary Sewer
13.	Other Waste Liquids	Off-Spec, out of date chemicals		Halliburton TSDF in Duncan OK by Co. truc
14.	Other Waste Solids -	(S) Off-Spec, out of date chemicals (S) Empty drums		Halliburton TSDF in Duncan OK by Co. truc

8. B. Collection and Storage Systems

1. Sumps, Lines, Pits

Truck and equipment washing occurs in a washrack with a concrete grit sump. The primary separation of the grit occurs in this sump. The water, oils, greases and suspended solids travel through an unpressurized concrete trough and piping system to an oil water separator prior to entering the local POTW system. The oil water separator is concrete with a chemical resistant coating installed to ensure integrity. The oil water separator is inspected annually for integrity. This inspection is documented utilizing the "Tiered Inspection" program. An example of the tiered inspection documentation is Attachment IV.

Sewer lines are not pressurized and no lift station exists internal to the facility.

2. Tankage and Chemical Storage Areas

Acid returns are neutralized on the transport and then released into a concrete, lined sump, pumped to a storage tank, stored for a short while, and reused in subsequent acid blends. The storage tank is within the secondary containment of the chemical terminal. This secondary containment is concrete with a chemical resistant coating. The dimensions of the containment, less the volume taken by two other tanks within the containment, yield a volume greater than 35,000 gallons. The largest tank within the containment is 13,000 gallons. This is in excess of the requirement for the containment to be 1.33 times the capacity of the largest tank within the containment. This containment area is visually inspected each workday for leaks, spills or other releases. The releases are collected and pumped to the acid return tank for reuse.

Used oils are collected in a steel tank that is within steel secondary containment. The volume of the containment is greater than 1.33 times the capacity of the tank.

Containerized chemical products, that become waste, are stored in a designated waste storage area within a covered building . The area is on concrete, secondarily contained and inspected at least weekly. The waste chemicals are stored for no more than 180 days before being shipped off-site to the Duncan, OK TSDF.

Solid chemicals that become waste are stored in the same designated waste storage area as the liquids. Compatibility concerns are recognized and precautions taken. The wastes are stored no longer than 180 days and are shipped off-site to the Duncan, OK TSDF.

Liquid chemical products are stored in a designated storage area that is paved, curbed and inspected at least weekly for spills, leaks, deteriorating containers, missing labels, etc.

All chemicals are received, stored and shipped in DOT approved containers.

8. C. **Existing Effluent and Solids Disposal**

1. On-Site Disposal

No on-site disposal of waste materials occurs at this facility. There are no surface impoundments, leach fields or injection wells on this facility.

Drying Beds, or Other Pits

The grit from the washrack is removed periodically and place into a designated drying area. The area is concrete floored and has three sides of concrete with one side made of a removable steel plate to provide access for removal of the grit once dried.

2. Off-Site Disposal

Off-site disposal of each waste stream is noted in the Table 8.A

9. **Proposed Modifications**

A new drum storage area is planned for completion during the summer of 1998. The area will be coated concrete with curbs constructed such as to accommodate a roof at a later date.

10. **Inspection, Maintenance and Reporting**

A. Halliburton adheres to a tiered inspection program that causes areas of concern to be inspected on a daily, weekly, monthly or quarterly basis. Corrective actions are generated as a result of the inspections. An example of the tiered inspections is included as Attachment IV.

Below grade sumps with liners or secondary containment are inspected at least annually. These inspections occur by detecting liquids in the interstitial space or by emptying, cleaning and visual inspections of the integrity of the sump. If leaks from these units are discovered or the integrity of the unit is suspect, the New Mexico OCD Rule 116 is followed. A release in excess of 25 barrels will be reported both verbally and written in a timely manner. Releases in excess of 5 barrels but less than 25 barrels will be timely reported in a written report.

B. No groundwater monitoring occurs at this facility.

C. Precipitation that is collected within the secondary containment of the chemical terminal, the drum storage area and the liquid gel concentrate area is pumped into the acid return tank and utilized as makeup water for acid blends. Stormwater or precipitation that is not captured leaves the property at one point on the south side of the facility. This facility has a current stormwater pollution prevention plan as per 40 CFR 120. This plan is Attachment V.

11. Spill/Leak Prevention and Reporting Procedures

The spill/leak contingency plan is included as Attachment VI. Chemical storage, blending, loading and unloading occurs in contained areas. The containment areas are inspected with spills and leaks cleaned up. All bulk liquid storage tanks are located within secondary containment one and one third the volume of the capacity of the largest tank. Releases to containment are recovered and for reuse. The largest spill potential outside containment would come from a 330 gal portable container.

All effluent from the facility leaves the property at one point. A significant spill could be contained on the property by blocking this exit, allowing time to remediate the spill. Spill kits are strategically located around the facility. The spill kits contain absorbent material, absorbent pads, shovels, and certain PPE and other spill cleanup materials.

Certain liquid and solid chemical products used, stored, blended or loaded at the facility contain constituents listed in WQCC 3103, "Standards for Groundwater" and 1101 TT, definition of "Toxic Pollutants". Each of these chemicals are listed below with the concentration of the constituent, as well as, the storage and handling techniques that greatly reduce potential for a spill, leak or discharge.

Listed Constituent	Product	% in Product	Storage
Fluoride	Ammonium Fluoride	33	Drum Storage area
Radioactivity	Densometers	Survey attached*	In Warehouse
Toluene	Paint Products	varied	Gal cans/warehouse
Ethylbenzene	Losurf-259	1-5	Drum Storage area
Xylenes	Xylenes	95	Drum Storage area
	Losurf-259	4	Drum Storage area
	Losurf-300	2	Drum Storage area
Methylene Chloride	Brake Cleaner Aerosol	Unknown	16oz aerosol cans
Naphthalenes	WS-44	2	Drum Storage
"	Losurf-300	less than 10	Drum Storage
"	Hyflo IV	2	5 gal pail
Chlorides	Potassium Chloride	100	Sacks / warehouse
	HC-2	8.5	Drum Storage
	Hydrochloric acid	35	Secondary Contain.
	XL-1	40	5 gal pails
	Max Seal	0.15	Drum Storage
	Calcium Chloride	100	Sacks / warehouse
Copper	Cat-3	1.9	Drum Storage
Iron	XL-1	40	5 gal pails
Phenols	Super Sand	less than 0.1	Sand Coating / dry
"	Tempered Sand	less than 0.1	Sand Coating / dry

* See Attachment IX

12. Site Characteristics

1. Attachment VII. is a 1:100,000 map showing a radius of one mile around the facility. The bodies of water within that radius and the approximate distance from the facility is listed below:

Water Body	Distance	Direction
Animas River	0.6 miles	Southeast
Hood Arroyo	0.85 miles	East
Echo Ditch	0.85 miles	South

2. A subsurface investigation was conducted in 1975. The report is included as Attachment VIII.

3. The investigation shows the soil types, conductivity and other subsurface information for this site.

4. This facility receives much stormwater runon from the north. Adequate stormwater runon diversion are lacking but planned for the future.

13. Other Compliance Information

1. NMOCD Rule 116 and WQCC Section 1203 has been incorporated into the facility contingency plan.

2. A closure plan for this facility is not required.

List of Attachments

I. Facility Plot Plan

II. Stock Status Report of Chemical Products on site

III. Latest TCLP analysis of our washrack grit

IV. Monthly Facility Assessments (Tiered Inspections)

V. Stormwater Pollution Prevention Plan (Forthcoming)

VI. Spill Contingency Plan (Forthcoming)

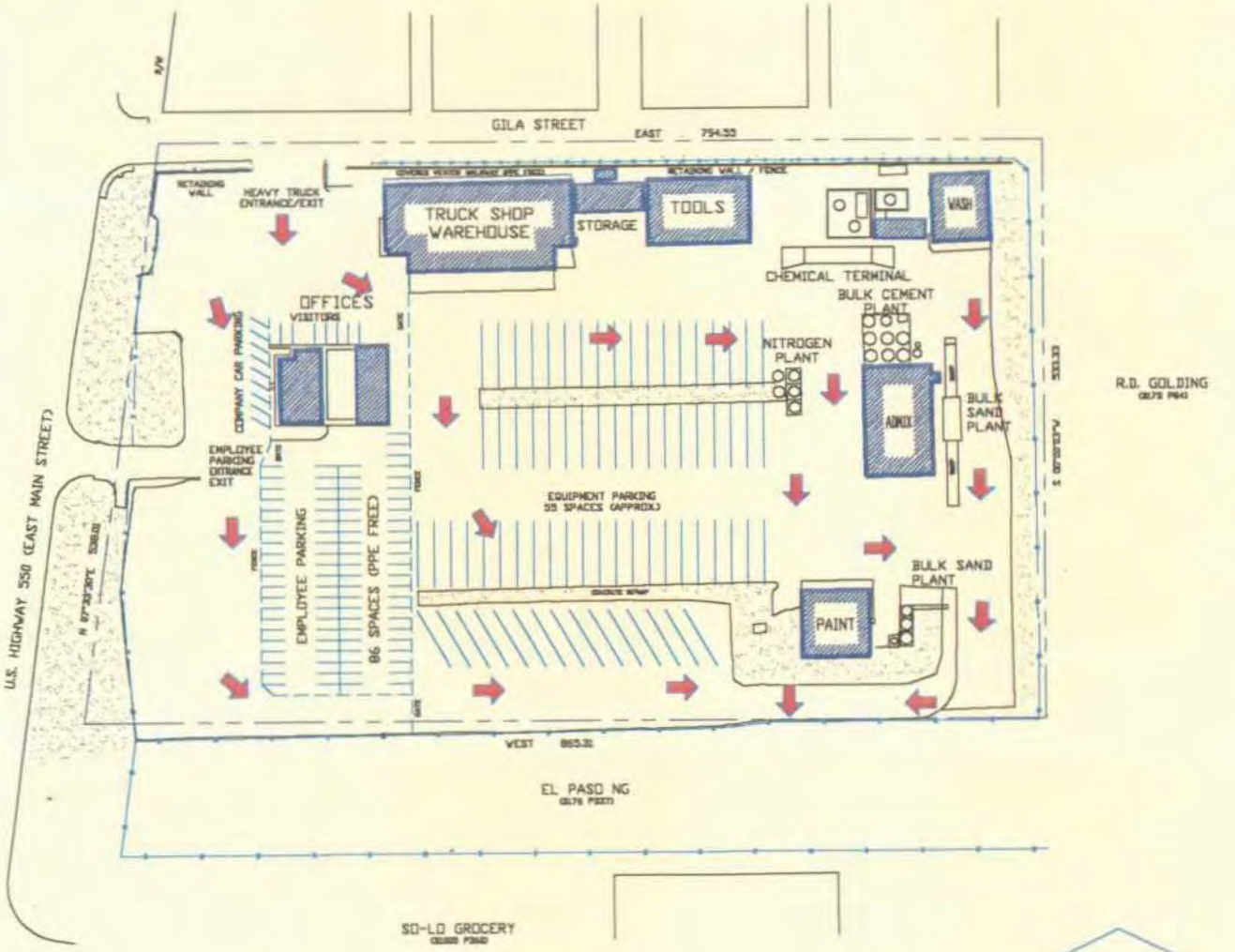
VII. 1:100,000 scale map with a one mile radius

VIII. Subsurface Investigation

IX. Latest Radioactive survey

ATTACHMENT I

FACILITY PLOT PLAN SHOWING LOCATIONS OF BUILDINGS AND PROCESS AREAS AND DIRECTION OF STORMWATER FLOW



STORM WATER FLOW DIAGRAM - FARMINGTON

1
C1SW
1"=50'

HALLIBURTON
NORTH AMERICA SHARED SERVICES

STORM WATER FLOW DIAGRAM
HALLIBURTON ENERGY SERVICES
FARMINGTON, N.M.

C1SW

ATTACHMENT II

STOCK STATUS REPORT FOR CHEMICALS ON SITE

DESCRIPTION	REPL	USGE MMYY	U/I	**-- YEAR-TO-DATE --** RECPTS	ISSUES	TRNFERS	FSB QTY	PKG QTY	O/O QTY	SURP QTY	MSO QTY	UNIT COST	OH-VALUE	OH-QTY	PART NUMBER
BALL-PERFPAC-7/	*	0398	EA	1300			1000	25				.24	315.90	1300	70.00456
BALL-PERFPAC-7/	*	0398	EA	1300			1000	25				.31	403.00	1300	70.00475
BALL-PERFPAC-7/		0198	EA	75				25	125	75		.34	25.58	75	70.00493
K-34 (50# BAGS)	49	* 0398	LB	2000	3050		500	50				.22	180.00	800	70.15186
K-35	49	* 1295	LB					100		150		.15	23.08	150	70.15187
SODIUM PERSULFA	99	0398	EA		1027		OBS					.00	2408.57-	1610-	70.15188
K-33-K-TROL COM	99	1197	LB				OBS	50		50		.50	25.10	50	70.15194
GBW-3	49	* 0398	LB	50	50		200	50				3.10	682.03	220	70.15209
ECONOLITE-ADDIT	49	* 0398	LB	18000	14827		1000	100			2046	.39	2571.48	4538	70.15250
SODIUM PERSULFA	49	* 0398	LB	2915			825	55				1.21	5680.33	4685	70.15257
TLC-80-50# BAG	49	* 1094	LB					50		400		.58	235.59	400	70.15263
HYG-3	49	* 1295	LB				200	50		300		.69	347.28	500	70.15266
KCL POTASSIUM C	89	* 0298	LB	6100	4400		500	100				.12	372.00	3050	70.15302
CHEMICAL - HC-2	49	* 0398	GAL	1485	1346		880	55				5.38	8408.29	1562	70.15308
NF-1-5 GAL CAN	49	1297	GAL					5		50		25.57	1278.85	50	70.15311
WG-11	49	* 0198	LB	50			1000	50				1.15	1099.02	950	70.15331
FORMIC ACID-BUL	89	* 0398	GAL	440	538	30	110	55	18			5.86	539.23	92	70.15366
FR-5-FRICTION R	49	0696	GAL					54		5		11.18	55.90	5	70.15371
FE-1A-BULK	49	* 0398	GAL	1320	1443		660	330	41			4.57	3461.33	757	70.15418
OSR-100 - 50# S	49	* 1297	LB					50	1			1.49	.00		70.15485
OOC-3-5 GAL CON	49	* 1294	GAL				8	5				15.46	.00		70.15494
ISOPROPYL ALCHO	89	0298	GAL	220	290							3.50	35.00	10	70.15511
METHANOL-METHYL	49	0298	GAL							20		1.42	28.40	20	70.15512
DIACEL LWL-LW W	49	* 1297	LB					50		300		4.32	1296.60	300	70.15526
HYDROCHLORIC AC	89	0398	GAL	55518	61855				89871			.96	4066.69	6290	70.15530
FE-2 CITRIC ACI	49	* 0198	LB		103		1000	50		3397		.84	3731.03	4397	70.15538
HALAD 9-50# SAC	49	* 0398	LB	50	225		300	50	20			3.48	974.48	280	70.15556
AMMONIUM BI-FLU	49	* 0198	LB	200			1400	50				.85	1197.20	1400	70.15594

PROGRAM FW180
5-55930 ** FARMINGTON, NM

HALLIBURTON ENERGY SERVICES
FIELD STOCK STATUS USAGE DATE
REPORT

02/09 88
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DESCRIPTION	REPL	USGE MMYY	U/I	**-- YEAR-TO-DATE --** RECPTS	ISSUES	TRNFERS	FSB QTY	PKG QTY	O/O QTY	SURP QTY	MSO QTY	UNIT COST	OH-VALUE	OH-QTY	PART NUMBER
HOWCO SUDS	49	* 0198	GAL				55	55		835	55	7.60	7183.39	890	70.15602
MF-1-HALLIBURTO	49	* 0298	LB	200	362		1600	200	62			.56	984.08	1750	70.15606
INJECTROL A	89	0298	GAL	7690	8000		550	54	8310			1.98	4118.40	2080	70.15607
HOWCO SUDS-5 GA	49	* 0398	GAL	90	32		70	5	2	120		7.31	1536.58	210	70.15609
TB-41 FRACTURIN		0995	LB					10		41		.96	39.52	41	70.15627
SCA-130 - 55 GA	49	* 1297	GAL					55		30		6.27	188.31	30	70.15657
MUSOL A	49	* 1297	GAL					55		40		7.10	284.00	40	70.15756
D-AIR 1	49	* 1297	LB					50	27	65		.97	63.05	65	70.15764
SAND-OTTAWA-20/	89	* 0198	SCK	30				30	5	10		4.60	46.00	10	70.43151
LOSURF-259	49	* 0298	GAL				55	55	49			9.01	.00		516.00009
FE-2A-CITRIC AC	89	0398	GAL		442		330	330				5.54	1186.90	214	516.00029
HYFLO IV-5 GAL	99	0398	GAL		9		OBS	5				14.43	.00		516.00033
SGA-HT-51 GAL D	49	* 0298	GAL	102			102	51	36	448		19.61	10787.80	550	516.00039
WG 17 50# SACK	49	* 0398	LB		200		1000	200	240	475		3.61	5328.85	1475	516.00041
FERCHEK-50# BAG	49	* 0198	LB	300	200			55		100		4.70	1880.04	400	516.00043
AMMONIUM FLOURI	49	* 1297	GAL					55		34		2.95	100.35	34	516.00047
K-38-POLYBOR-50	49	* 0398	LB	1400	647		500	50		120		.83	1680.63	2020	516.00053
WS-44-EMULSIFYI	49	* 0398	GAL	110	70			55	220			7.53	828.66	110	516.00081
WG-18	49	0298	LB		1800			50		2200		1.60	3526.72	2200	516.00087
WG-19	49	* 0298	LB	1500	1225		3000	50				1.00	3111.75	3100	516.00107
CHEM-HALLIBURTO	49	* 1297	SCK				24	24		24		39.06	1875.24	48	516.00114
CHEM-HALLIBURTO	99	1297	GAL				OBS	55		55		26.06	1433.63	55	516.00116
BA-20	49	* 0298	GAL		59		220	55	2	55		4.38	1205.42	275	516.00119
HALAD-322	49	* 1297	LB				500	50	33			2.25	1015.11	450	516.00144
SBM-30 BREAKER	49	* 0395	LB	20	702		200	10	1	236		6.44	2810.67	436	516.00146
LOSURF-300 SURF	49	* 0398	GAL	583	542		159	53		451		6.68	6906.69	1034	516.00157
SALT-MORTON-PUR	89	* 0198	LB					2400		3040		.04	125.83	3040	516.00158
CFR-3	49	* 0198	LB	150	107		900	50	50						

DESCRIPTION	REPL	USGE MMYY	U/I	**-- YEAR-TO-DATE --** RECPTS	ISSUES	TRNFERS	FSB QTY	PKG QTY	O/O QTY	SURP QTY	MSO QTY	UNIT COST	OH-VALUE	OH-QTY	PART NUMBER
HII-124C	49 *	0997	LB							11		3.71	40.88	11	516.00192
SUPER CBL-100#	49 *	1297	LB				300	100	115			4.32	1296.39	300	516.00223
MICROBOND ADDIT	49 *	0198	LB				1000	50		1300		.23	549.82	2300	516.00226
HALAD-344-50# S	49 *	0398	LB	3500	3528		1000	50	60		217	6.60	6205.83	723	516.00227
SAND-12/20-BROW	89	0298	SCK	3226	2800		5000		19500			5.02	4625.39	920	516.00236
SAND-16/30-BROW	89	0797	SCK				10000					3.67	.00		516.00237
SAND-20/40-BROW	89	0298	SCK	14746	15044		5000		25552		450	3.62	12127.32	2895	516.00238
SAND-70/140 OR	89	0198	SCK				1000					2.90	699.14	241	516.00240
SAND-12/20-WHIT	89	0298	SCK	763	288							7.46	3548.00	475	516.00241
SAND-20/40-WHIT	89	0398	SCK	3013	1500		6000		16987			4.60	6967.77	1513	516.00242
BENTONITE-BULK	89	0398	SCK	581	644		800				26	4.68	2038.39	409	516.00259
CEMENT-STD-BULK	89	0298	SCK	14502	15205		10000		15498		1290	4.04	3809.85	348-	516.00263
CEMENT-CLASS G-	89	0398	SCK	8476	8146		5000		19524		277	4.13	5921.91	1156	516.00270
POZMIX A-BULK	89	0398	LB	639220	592633		150000		315340		35432	.00	1120.01	92381	516.00286
SILICA FLOUR-SS	89	1297	LB				60000					.04	332.38	7386	516.00289
MO-67	49 *	0298	GAL				110	55		165		1.80	497.26	275	516.00308
WG-22-1000# BAG	89 *	0398	LB	56000			16000	1000				.97	39031.30	40000	516.00317
SAND-16/30 MESH	49	1297	SCK								1867	5.29	.00	1867-	516.00324
GILSONITE-BULK	89	0398	LB	147120	156465		10000				13975	.07	2563.03	20810	516.00337-
GS-5-50 GAL DRM	49 *	0298	GAL	200	83		150	50	13			8.33	1666.94	200	516.00353
CL-23 CROSSLINK	49 *	0298	GAL	55	31			55				9.30	511.80	55	516.00394
CL-24 CROSSLINK	49 *	1297	GAL					28		18		35.19	633.42	18	516.00395
OXOL II OXIDANT	89 *	0298	LB	880	1000			40	20			.59	238.88	400	516.00400
FE-3A-IRON SEQU	49 *	0897	LB				2000	50				.87	.00		516.00412
BA-40L BUFFER-5	49 *	1297	GAL				110	55		385		3.51	1740.52	495	516.00430
SILICALITE-BULK	99	1197	LB				40000		751200			.12	2225.73	18230	516.00443
AQF-2 FOAM AGEN	49 *	0298	GAL	1040	855		1040	52	48			5.58	7624.30	1365	516.00449
CLAYFX II-55 GA	49 *	0398	GAL	165	569		440	55	10			6.43	2765.86	430	516.00450

DESCRIPTION	REPL	USGE MMYY	U/I	**-- YEAR-TO-DATE --** RECPTS	ISSUES	TRNFERS	FSB QTY	PKG QTY	O/C QTY	SURP QTY	MSO QTY	UNIT COST	OH-VALUE	OH-QTY	PART NUMBER
GBW-30 BREAKER-	99	0298	LB		15		OBS	25				.00	104.64-	15-	516.00453
CLAYFIX II-HAL	49 *	0298	GAL					330	60	685		5.39	3696.16	685	516.00472
PEN-88 MICROEMU	99 *	0198	GAL		10		OBS	55		11		10.03	110.38	11	516.00473
SAND-ARIZONA SI	89	0398	SCK	40909	42682		15000		21172		7010	2.55	16657.20	478-	516.00477
SAND-ARIZONA SI	89	0398	SCK	1567	644		100		1660		100	1.73	1442.73	730	516.00478
FR-26LC-BULK	89	0398	GAL	2310	1928		1200		990			9.16	3297.93	360	516.00481
CLA-STA XP-CLAY	49 *	0398	GAL	55	25		110	55	4			13.30	1409.90	106	516.00490
BE-5 BIOCIDE-36	49 *	1297	LB				36	36				8.17	.00		516.00493
BA-50-BORIC ACI	89	0298	LB	500	850		10					.93	93.40-	100-	516.00498
HALAD 413- 50#	99 *	0198	LB		27		250			250		8.06	4031.26	500	516.00512
MICROBOND M-50#	89 *	1096	LB				500	50				.34	.00		516.00513
D-AIR 3- 5 GAL	49 *	1297	GAL					5		5		34.80	174.03	5	516.00517
HAI-85M CORROSI	49 *	0298	GAL					54		300		19.54	5862.01	300	516.00524
SCR-100 SYNTHET	99 *	0198	LB							725		5.56	4036.48	725	516.00535
SAND-SUPER LC-R	99	0997	LB						200000			.12	.00		516.00551
SUPERSET-W/ACTI	99	0298	GAL		17					645		9.22	5947.55	645	516.00553
HR-25-50# BAGS	49	1297	LB							100		7.41	741.02	100	516.00558
LGC-8 USING WG-	89	0398	GAL		9021		5000					4.66	14239.05	3051	516.00567
MSA II INHIBITO	49 *	0298	GAL				55	55				16.53	859.93	52	516.00572
MICRO MATRIX CM	99 *	1297	SCK				50		26			19.97	679.09	34	516.00611
GEL-STA L STABI	89	1297	GAL					55		215		7.58	1630.22	215	516.00627
MO-75 OIL GELLI	49 *	1297	GAL					55		55		16.58	912.34	55	516.00652
MO-76 OIL GEL A	49 *	1297	GAL					55		55		7.27	399.91	55	516.00653
OPTIFLO-E RETAR	49	0398	LB		37		50	50				15.00	270.00	18	516.00654
CL-29 CROSSLINK	49 *	1295	GAL					55		25		12.29	307.30	25	516.00710
CHEM-SGA-II ACI	49 *	0298	GAL	990	990			55		105		10.52	11525.23	1095	516.00731
SND-TEMPERED SU	99	0398	LB	620320	824160				200000		122600	.12	.00	122600-	516.00762
BE-6 BACTERICID	49 *	0398	LB	768	792		300	48	261			18.96	3793.07	200	516.00771

DESCRIPTION	REPL	USGE MMYY	U/I	**-- YEAR-TO-DATE --** RECPTS	ISSUES	TRNFERS	FSB QTY	PKG QTY	O/O QTY	SURP QTY	MSD QTY	UNIT COST	OH-VALUE	OH-QTY	PART NUMBER
OPTIFLO-III BRK	49 *	0398	LB	250	185		200	50				4.90	1225.23	250	516.00772
CHEMICAL VERSAS	99 *	0398	LB	550	1093		1000	50				1.34	1407.22	1043	516.00789
CAT-3 ACT-55 GA	49 *	0298	GAL	490	408		110	55				5.22	1725.55	330	516.00792
CAT-3 ACTIVATOR	49 *	0298	GAL	160						10		7.60	1293.31	170	516.00793
BF-1 BFG AGENT	49 *	0298	GAL	110	110							11.34	1247.77	110	516.00809
XL-1-ACID CRSLN	49 *	0198	GAL	220	225							3.44	741.53	215	516.00810
SAND-16/30 MESH	89	0398	SCK	4087	3917		10000		25913			2.09	9276.45	4432	516.00818
ANHIB II INHIBI	49 *	0298	GAL		20		15	5		30	5	14.15	707.70	45	516.00854
CL-28M XLINKER-	49 *	0697	GAL							385		6.07	2338.78	385	516.00855
MICRO FLY ASH-5	49 *	0198	LB	350			2500			1250		.21	812.59	3750	516.00860
HAI-81M-INHIBIT	99 *	0398	GAL	440	514		220	55	51	8		12.00	8018.93	668	516.00883
BE-3S SOLID BIO	99	1297	LB							40		11.50	460.00	40	516.00895
CL-31 CROSSLINK	99 *	1297	GAL				110	55	18	860		5.68	5516.48	970	516.00896
PERM A ADDITIVE	99	1297	GAL							70		15.07	1055.49	70	516.00901
PERM C ADDITIVE	99 *	1197	LB							108		20.71	2237.14	108	516.00903
MUSOL E SOLVENT	89	0298	GAL	220	100							6.11	1192.02	195	516.00906
SSO-21M WINTER-	99 *	0398	GAL	660	1276		880	55		211		5.90	6442.90	1091	516.00907
OPTIFLO HTE BRK	89 *	0398	LB		145		100	50		180		14.87	4164.60	280	516.00909
VICON NF BRKR-5	49 *	0398	GAL	1540	1382		330	55	12			4.54	4246.65	935	516.00954-
VICON NF BRKR-H	49 *	0298	GAL	330				110				3.75	112.50	30	516.00955
PROPWRAP PROP F	99 *	1097	LB							690		2.67	1843.14	690	516.00969
MAX SEAL FL LOS	99 *	1296	LB							55		.60	33.00	55	516.00969
MORFLO III SURF	99 *	0997	GAL							55		9.17	504.68	55	516.01010
HYFLO IV M SURF	99 *	0398	GAL	25			25	5				8.48	212.14	25	516.01039
MORFLO III SURF	99 *	0398	GAL	165	190		80	5				9.85	778.78	79	516.01066
BC-2 CROSSLINKE	49 *	0398	GAL	165	724		990	55				5.87	5545.83	944	516.01080
BC-200 CRSSLNKR	89 *	0198	GAL				660	330				9.99	.00		516.01162
SANDWEDGE - 330	99 *	0398	GAL	2100	2395		1320	300	150			11.13	24852.18	2231	516.01167

DESCRIPTION	REPL	USGE MMYY	U/I	**-- YEAR-TO-DATE --** RECPTS	ISSUES	TRNFERS	FSB QTY	PKG QTY	O/O QTY	SURP QTY	MSO QTY	UNIT COST	OH-VALUE	OH-QTY	PART NUMBER
BC-200 CROSSLNK	89	* 0398	GAL	1980	1041		990	330	51			7.77	12671.04	1630	516.01173
FLOCELE- 3/8 -	89	* 0398	LB	9000	7530		3000	1000	642		701	.30	724.02	1657	890.50071
HR-5-50# SACK	49	* 1297	LB					50		625		1.20	750.15	625	890.50077
CAL-SEAL-100# B	89	* 0198	SCK				120	40	14			8.28	994.12	120	890.50131
CALCIUM CHLORID	89	* 0398	SCK	350	308		105	35	8		6	14.33	1792.30	119	890.50812
FDP-F520-92- 55		* 1294	GAL							32		6.55	209.84	32	999.99228

WAREHOUSE INVENTORY TOTALS:

TOTAL PARTS	146
ESTIMATE ON ORD VALUE	794,863.39
ESTIMATE SURPLUS	84,567.87
ESTIMATE CURRENT FSB	417,376.80
ESTIMATE MSO VALUE	56,118.67
ON HAND VALUE	338,003.57
MSO & ON HAND VALUE	394,122.24

ATTACHMENT III

TCLP ANALYSIS OF WASHRACK GRIT

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5898	Date Received:	12-23-97
Sample Matrix:	Solid	Date Analyzed:	01-06-98
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.015**	**0.0001**	**5.00**
Barium	**1.62**	**0.001**	**100**
Cadmium	**0.001**	**0.0001**	**1.00**
Chromium	**0.006**	**0.0001**	**5.00**
Lead	**0.051**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 7, 1998

Mr. Rick Greenacre
Halliburton Energy Services, Inc.
4109 East Main Street
Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Greenacre,

Enclosed are the analytical results for the sample collected from the wash bay located at the Halliburton facility on East Main St. in Farmington, New Mexico. One composite sample of wash bay solids was collected by Envirotech personnel on December 23, 1997, and delivered to the Envirotech laboratory on December 23, 1997 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 5698 and assigned Laboratory No. C728 for tracking purposes. The sample was analyzed 12/23/97 through 01/06/98 using USEPA or equivalent methods.

Results of the analysis indicate that the material contained in the sample from the referenced location is not a characteristic hazardous waste as defined by 40 CFR Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tclp1298.lb3

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	12-29-97
Lab ID#:	C728	Date Sampled:	12-23-97
Sample Matrix:	Soild	Date Received:	12-23-97
Preservative:	Cool	Date Analyzed:	12-23-97
Condition:	Cool & Intact	Chain of Custody:	5698

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**8.52**
REACTIVITY:	**Negative**	

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. *(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)*
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. *(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)*
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. *(i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)*
Reference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.
Comments:	**Halliburton, East Main St., Farmington, NM.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	01-02-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	100%
	2,4,6-Tribromophenol	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 19

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Halliburton, East Main St., Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090
Nitroaromatics and Cyclic Ketones
TCLP Base/Neutral Organics

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**0.189**	**0.020**	**5.0**
Hexachloroethane	**ND**	**0.020**	**3.0**
Nitrobenzene	**0.047**	**0.020**	**2.0**
Hexachlorobutadiene	**ND**	**0.020**	**0.5**
2,4-Dinitrotoluene	**0.030**	**0.020**	**0.13**
HexachloroBenzene	**ND**	**0.020**	**0.13**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	**98%**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

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ATTACHMENT IV

FACILITY ASSESSMENTS (EXAMPLE)

MONTHLY FACILITY ASSESMENT RESPONSIBILITIES

Feb. 1998

WORK AREA	SUPERVISOR	RESPONSIBLE PERSON	COMPLETION DATE
Service Center Bldgs	G. Freidline	Melissa Spencer	
Laboratory	B. Petersen	Teresa White	
Office Trailer	G. Freidline	Melissa Spencer	
Warehouse	G. Przekurat	Ray Cartwright	
Oil Storage	E. Shannon	Jim Robinson	
Cement Shop	R. Emde	Randy Snyder	
Wash Bays	E. Shannon	Jim Robinson	
N² Shop	T. Colins	Pat Kemper	
Tool Shop	C. Lasster	Rick Greenaker	
Cement Head Shop	R. Emde	Randy Snyder	
Bulk Plant	G. Przekurat	Gene Roberts	
Tech Room/Coiled Tubing	B. Petersen	Max Pedigo	
Frac Shop	T. Colins	Noel Hermanson	
Painting/Blasting Shop	E. Shannon	Jim Robinson	
Chemical Dock/Warehouse	G. Przekurat	Richard Nye	
Mechanic Shop	E. Shannon	Jim Robinson	
Logging Shop	S. Hash	Mike Nix	
LGC Plant	G. Przekurat	Gary Dobbs	
Sand Plant	G. Przekurat	Gary Dobbs	
Fuel Island	N/A	N/A	
Yard	E. Shannon	Brian Higgins	

Highlighted ones are missing

ROCKY MOUNTIAN TIERED INPSECTION PROGRAM CORRECTIVE ACTION PLAN

WORK AREA: Farmington, NM

INSPECTOR:

INSTRUCTIONS:
The person performing the monthly inspection should note date, facility and deficiency in the left column of this form and then forward this form and the work area inspection form to his/her work area responsible person. The Responsible person, Shared Service Coordinator, HSE team and PSL management will develop a corrective action plan for each issue. The work area responsible person and inspector will initial and date each corrective action as it is completed. A copy of the corrective action form should be filed locally with the completed inspection form. The Shared Services Coordinator will maintain a master rolling corrective action plan for each operation center to be updated monthly and E-mailed to the NWA Shared Services Manager and HSE Coordinators quarterly.

DATE & DEFICIENCY	CORRECTIVE ACTION	RESPONSIBLE PERSON	COMPLETION DATE & INITIAL
CaC Plant 02-12-98	NONE	N/A	N/A
Bulk Materials 02-09-98	Plant All liquid chemicals secondarily contained not enought room	Gary Dobbs	Discussed w/ Manager
Chemical Dock 02-09-98	Housekeeping - Full time job to keep clean, maybe think it should have a class C fire Extinguisher, Spill Kit needs shovel + gloves	Jim Robinson	02-20-98
Logging Shop 02-09-98	Equipment + hand tool; open hole needs new grinding wheel, and wire brush, need label for our scrap metal, H20 can Cement mix in water.	Mike Nez	02-25-98
"	Air compressor/capture vessel: bottom tank drain, drains but on to shop floor	" "	
Facility yard/parking 02-13-98	House Keeping - mud needs to be cleaned up Spill Kits - one in front of the frac room needs to be filled.	Jim Robinson	02-20-98
	Spills and drips - 52785 Antifreeze. We need trash cans in lower part		02-20-98
	of the yard, and employee parking presentable to public - maintain mowers need to be cleaned before being		02-20-98 02-27-98
	put in the front.		"
	light bulbs that need to be changed building #3 - 2 lights, #5 - 1 light		
	#8 - 2 lights, #10 - 1 light, Front Island has 2 lights, back island - 1 light	Brain	02-26-98

(25)

ROCKY MOUNTIAN TIERED INPSECTION PROGRAM CORRECTIVE ACTION PLAN

WORK AREA: Farmington, NM

INSPECTOR:

INSTRUCTIONS:
The person performing the monthly inspection should note date, facility and deficiency in the left column of this form and then forward this form and the work area Inspection form to his/her work area responsible person. The Responsible person, Shared Service Coordinator, HSE team and PSL management will develop a corrective action plan for each issue. The work area responsible person and inspector will initial and date each corrective action as it is completed. A copy of the corrective action form should be filed locally with the completed inspection form. The Shared Services Coordinator will maintain a master rolling corrective action plan for each operation center to be updated monthly and E-mailed to the NWA Shared Services Manager and HSE Coordinators quarterly.

DATE & DEFICIENCY	CORRECTIVE ACTION	RESPONSIBLE PERSON	COMPLETION DATA & SSC INITIAL
Warehouse 02-09-98	Need to make designated area for hazardous waste storage	Gary Dobbs	Discussed w/ [illegible] but not completed
Warehouse Environmental Eng. 02-09-98	Need to make designated area for hazardous waste storage.	" "	"
Toolshop 02-09-98	Trash can in washbay Emptied	Rick Greenaker	02-09-98
Toolshop 02-09-98	Fire extinguishers need new signs, need to replace one by back door	Rick Greenaker ordered them	02-09-98
Tool shop 02-09-98	Open line drains on Floor of wash bay	Mike [illegible]	
Laboratory 02-14-98	NONE	N/A	N/A
Service Center Bldg 02-14-98	House keeping - wall dividers in hallway need to be moved, electrical, computer cords need to be tied up. Printer room needs cleaning!	Allen, [illegible]	02-17-98
Office trailer 02-14-98	House Keeping - Clutter of boxes in vacant offices, Electrical cords, computer cords need to be tied up, all cleaning chemicals need to be in one place	Virginia Brian	02-16-98
Tech Room 02-09-98	NONE	N/A	N/A
Frac Room 02-13-98	NONE	N/A	N/A
N2 Shop 02-13-98	NONE	N/A	N/A
Sand Plant 02-12-98	NONE	N/A	N/A
Chemical/[illegible] Terminal 02-12-98	No Fire Extingsher, Do not store partials in plant	Richard Nye	03-04-98

MAR 09 '98 14:31 FR HALLIBURTON 505 327 2534 TO 15802513969 P.37

WAREHOUSE HSE INSPECTION

Facility Location: Farmington Time: 1100

Inspection for the ~~week~~ Month of FEB by: W R CARTWRIGHT

Objective: Ensure the Health & Safety of employees and public while protecting the Environment.

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the materials warehouse. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1]	✓		
Spill kits properly maintained. [1]	N/A		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1]	✓		
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled.[2]	N/A		
Hazardous waste storage area inspected weekly.[2]	✓		
Hazardous waste storage area inventory up-to-date.[2]	✓		
Hazardous waste storage area properly designated.[2]		✓	NEED TO MAKE DESIGNATED ARE
Full or partial containers stored with bungs and lids in place.	N/A		
All partials easily identified.	N/A		
All product storage containers have product labels.	✓		
Empty chemical containers stored in designated area.	N/A		
All empty containers have product labels.	N/A		
Empty drums stored horizontal with bungs in place.	N/A		
Empty storage area properly designated.[2]	N/A		
All liquid chemicals secondarily contained.	N/A		
Air compressor equipped with condensate capture vessel.	N/A		
Air compressor condensate vessel properly maintained.	N/A		

[1] Refer to inspection guidelines.

[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

WAREHOUSE ENVIRONMENTAL INSPECTION

Facility Location: Farmington, NM Time: 11:20
Inspection for the ~~week~~ month of Feb by: LR Cartwright

Objective: Pollution Prevention/Waste Minimization

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the materials warehouse. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1]	✓		
Spill kits properly maintained. [1]	NA		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1]	✓		
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled. [2]	N/A		
Hazardous waste storage area inspected weekly. [2]		✓	NEED TO MAKE A DESIGNATED ARE
Hazardous waste storage area inventory up-to-date. [2]	N/A		
Hazardous waste storage area properly designated. [2]		✓	SEE ABOVE
All containers are leak free.	NA		
Full or partial containers stored with bungs and lids in place.	NA		
All partials easily identified.	NA		
All product storage containers have product labels.	NA		
Empty chemical containers stored in designated area.	NA		
All empty containers have product labels.	NA		
Empty drums stored horizontal with bungs in place.	NA		
All liquid chemicals secondarily contained.	NA		
Air compressor equipped with condensate capture vessel.	NA		
Air compressor condensate vessel properly maintained.	NA		

WAREHOUSE ENVIRONMENTAL INSPECTION

Area clean and free of chemical spills.	✓		

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

LABORATORY

Facility Location: LABORATORY Time: 4:00pm
Inspection for the week of 2-14-98 by: Teresa White

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1]	✓		
Spill kits properly maintained. [1]	✓		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1]	✓		
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled. [2]	✓		
All containers are leak free.	✓		
Full or partial containers stored with bungs and lids in place.	N/A		
All partials easily identified.	N/A		
All product storage containers have product labels.	✓		
Empty chemical containers stored in designated area.	✓		
All empty containers have product labels.	✓		
Empty drums stored horizontal with bungs in place.	✓		
All liquid chemicals secondarily contained.	N/A		
Air compressor equipped with condensate capture vessel.	N/A		
Air compressor condensate vessel properly maintained.	N/A		
Area clean and free of chemical spills.	✓		

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

TOOL SHOP

Facility Location: FARMINGTON Time: 09:40
Inspection for the week of FEB 9, 1998 by: R. Bacon Rep

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓	✓	TRASH CAN IN WASH BAY FULL
Fire extinguishers properly maintained. [1]		✓	NEED NEW SIGN, COVERED OLD SIGN @ DOOR
Spill kits properly maintained. [1]			NEED TO REPLACE 1 BY DOOR
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1]	✓		
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled. [2]			NA
All containers are leak free.	✓		
Full or partial containers stored with bungs and lids in place.	✓		
All partials easily identified.	✓		
All product storage containers have product labels.	✓		
Empty chemical containers stored in designated area.			NA
All empty containers have product labels.	✓		
Empty drums stored horizontal with bungs in place.			NA
All liquid chemicals secondarily contained.	✓		
Air compressor equipped with condensate capture vessel.		✓	OPEN LINE DRAINS ON FRONT OF WASH BAY
Air compressor condensate vessel properly maintained.		✓	
Area clean and free of chemical spills.	✓		

EMPTIED

COVERS

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

SERVICE CENTER BLDGS.

Facility Location: Farmington NM **Time:** 3:45pm
Inspection for the week of Feb 1998 **by:** Melissa Spencer

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the ______________. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓	✓	wall [illegible] in Hall way need take mud
Fire extinguishers properly maintained. [1]	✓		
~~Spill kits properly maintained.~~ [1]	N/A		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
~~Flammable Cabinet properly maintained~~ [1]	N/A		
~~Equipment and hand tools properly maintained.~~ [1]	N/A		
~~All containerized waste properly labeled.~~ [2]	N/A		
All containers are leak free.	✓		
~~Full or partial containers stored with bungs and lids in place.~~	N/A		
~~All partials easily identified.~~	N/A		
All product storage containers have product labels.	✓		
~~Empty chemical containers stored in designated area.~~	N/A		
~~All empty containers have product labels.~~	N/A		
~~Empty drums stored horizontal with bungs in place.~~	N/A		
~~All liquid chemicals secondarily contained.~~	N/A		
~~Air compressor equipped with condensate capture vessel.~~	N/A		
~~Air compressor condensate vessel properly maintained.~~	N/A		
Area clean and free of chemical spills.	✓		

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

Electrical Cords need to be plastic in Printer room needs cleaning

LGC PLANT

Facility Location: Farmington Time: 1300 PM
Inspection for the ~~week~~ month of Feb by: Gary Ross

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1] N/A			
Spill kits properly maintained. [1]	✓		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1] N/A			
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled. [2]	✓		
All containers are leak free.	✓		
Full or partial containers stored with bungs and lids in place.	✓		
All partials easily identified.	✓		
All product storage containers have product labels.	✓		
Empty chemical containers stored in designated area.	✓		
All empty containers have product labels.	✓		
Empty drums stored horizontal with bungs in place.	✓		
All liquid chemicals secondarily contained.	✓		
Air compressor equipped with condensate capture vessel. N/A			
Air compressor condensate vessel properly maintained. N/A			
Area clean and free of chemical spills.	✓		

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

SAND PLANT

Facility Location: Farmington Time: 1330 Pm
Inspection for the week of Feb (month) by: Gary Ross

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1] N/A			
Spill kits properly maintained. [1] N/A			
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1] N/A			
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled. [2] N/A			
All containers are leak free.	✓		
Full or partial containers stored with bungs and lids in place. N/A			
All partials easily identified. N/A			
All product storage containers have product labels. N/A			
Empty chemical containers stored in designated area. N/A			
All empty containers have product labels. N/A			
Empty drums stored horizontal with bungs in place. N/A			
All liquid chemicals secondarily contained. N/A			
Air compressor equipped with condensate capture vessel. N/A			
Air compressor condensate vessel properly maintained. N/A			
Area clean and free of chemical spills.	✓		

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

NITROGEN SHOP

Facility Location: Farmington Time: 0930
Inspection for the week of Feb 9, 1998 by: Pat Kemper

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1]	✓		
Spill kits properly maintained. [1]			N/A
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1]			N/A
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled. [2]			N/A
All containers are leak free.			N/A
Full or partial containers stored with bungs and lids in place.			N/A
All partials easily identified.			N/A
All product storage containers have product labels.	✓		
Empty chemical containers stored in designated area.			N/A
All empty containers have product labels.			N/A
Empty drums stored horizontal with bungs in place.			N/A
All liquid chemicals secondarily contained.			N/A
Air compressor equipped with condensate capture vessel.			N/A
Air compressor condensate vessel properly maintained.			N/A
Area clean and free of chemical spills.	✓		

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

FRAC SHOP

Facility Location: Farmington N.M. Time: 15:00
Inspection for the week of 2-13-98 by: Noel Hermansen

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the Frac Room. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	X		
Fire extinguishers properly maintained. [1]	X		
Spill kits properly maintained. [1]	N/A		
Personnel Protective Equipment (PPE) guidelines followed. [1]	X		
Proper waste management guidelines followed. [1]	X		
Flammable Cabinet properly maintained. [1]	X		
Equipment and hand tools properly maintained. [1]	X		
All containerized waste properly labeled. [2]	X		
All containers are leak free.	X		
Full or partial containers stored with bungs and lids in place.	N/A		
All partials easily identified.	N/A		
All product storage containers have product labels.	N/A		
Empty chemical containers stored in designated area.	N/A		
All empty containers have product labels.	N/A		
Empty drums stored horizontal with bungs in place.	N/A		
All liquid chemicals secondarily contained.	N/A		
Air compressor equipped with condensate capture vessel.	N/A		
Air compressor condensate vessel properly maintained.	N/A		
Area clean and free of chemical spills.	X		

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

TECH ROOM

Facility Location: main SF Yard Time: 11:30
Inspection for the week of Feb by: Max Pedigo

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1]	✓		
Spill kits properly maintained. [1]	N/A		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1]	✓		
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled. [2]	N/A		
All containers are leak free.	N/A		
Full or partial containers stored with bungs and lids in place.	N/A		
All partials easily identified.	N/A		
All product storage containers have product labels.	N/A		
Empty chemical containers stored in designated area.	N/A		
All empty containers have product labels.	N/A		
Empty drums stored horizontal with bungs in place.	N/A		
All liquid chemicals secondarily contained.	N/A		
Air compressor equipped with condensate capture vessel.	N/A		
Air compressor condensate vessel properly maintained.	N/A		
Area clean and free of chemical spills.	✓		

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

OFFICE TRAILER

Facility Location: Farmington, NM Time: 3:45pm
Inspection for the week of Feb. 1998 by: Melissa Spencer

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]		✓	Clutter of books in vacant office. Electronics need to be disposed of.
Fire extinguishers properly maintained. [1]	✓		
~~Spill kits properly maintained.~~ [1]	N/A		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
~~Flammable Cabinet properly maintained.~~ [1]	N/A		
~~Equipment and hand tools properly maintained.~~ [1]	N/A		
~~All containerized waste properly labeled.~~ [2]	N/A		
~~All containers are leak free.~~	N/A		
~~Full or partial containers stored with bungs and lids in place.~~	N/A		
~~All partials easily identified.~~	N/A		
~~All product storage containers have product labels.~~	N/A		
~~Empty chemical containers stored in designated area.~~	N/A		
~~All empty containers have product labels.~~	N/A		
~~Empty drums stored horizontal with bungs in place.~~	N/A		
~~All liquid chemicals secondarily contained.~~	N/A		
~~Air compressor equipped with condensate capture vessel.~~	N/A		
~~Air compressor condensate vessel properly maintained.~~	N/A		
Area clean and free of chemical spills.	✓		

All cleaning chemicals need to be stored in one area

[1] Refer to inspection guidelines.
[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

CHEMICAL / LGC TERMINAL ENVIRONMENTAL INSPECTION

Item	Yes	No	Corrective Action
Air compressor equipped with condensate capture vessel.	N/A		
Air compressor condensate vessel properly maintained.	N/A		
Waste management documents placed in facility files. [2]	?		
All electric equipment grounded.	✓		
Lighting in working condition.	✓		
Equipment guards in place. (compressors, motors, etc.)	✓		
Air compressor equipped with condensate capture vessel.	N/A		
Condensate capture vessel properly maintained.	N/A		
Equipment free of leaks and drips.	✓		

[1] Refer to inspection guidelines.

[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

CHEMICAL / LGC TERMINAL ENVIRONMENTAL INSPECTION

Facility Location: Farmington Time: 1300 PM

Inspection for the ~~week~~ month of Feb. Name (print): Gary Boss

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the Chemical and LGC loading facilities. Conduct weekly inspections of the loading docks, secondary containment, and chemical storage areas. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1] N/A			NO Fire extinguisher
Spill kits properly maintained. [1]	✓		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1] N/A			
Equipment and hand tools properly maintained. [1]	✓		
All containerized waste properly labeled. [2]	✓		
Employee right to know station accessible and up-to-date.	✓		
Area clean and free of chemical spills.	✓		
Evidence of acid fume release. (odor and/or corrosion)		✓	
Storm/waste water present in any secondary containment.		✓	
Evidence of waste chemicals in secondary containment.		✓	
Acid returns neutralized on trucks. N/A			
Acid returns pH and volume documented prior to discharge. N/A			
Vendor off loading procedure in place and followed.	✓		
Full or partial containers stored with bungs and lids in place.	✓		
All partials easily identified.		✓	Do not store partials in plant
All empty containers have product labels.	✓		
Empty drums stored horizontal with bungs in place. N/A			
All liquid chemicals secondarily contained.	✓		

[1] Refer to inspection guidelines.

[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

FACILITY YARD / PARKING AREA HSE INSPECTION

Facility Location: Halliburton 4109 E main. Time: 12:00

Inspection for the week of 2/13/98 by: Brian Hynes

Objective: Ensure the Health & Safety of employees and public while protecting the Environment.

Pollution prevention and proper facility maintenance are essential to the successful and cost effective operation of the facility. Conduct monthly inspections of the facility yard and parking areas. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator. Verify and document corrective action.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	X		all but the mud.
Fire extinguishers properly maintained. [1]	X		
Spill kits properly maintained. [1]	X		one of them. Need [redacted] to be full. the one in front of the back room
Personnel Protective Equipment (PPE) guidelines followed. [1]			Na
Proper waste management guidelines followed. [1]	X		
Flammable Cabinet properly maintained. [1]			Na
Equipment and hand tools properly maintained. [1]			Na
Equipment properly stored and parked.	X		
Spills and drips addressed immediately.		X	52985 Antifreeze
Trash and debri present in yard / parking area.	X		yes. Need some in the lower part of the yard, Emp Parking.
Scrap iron covered and stored neatly and off the ground.	X		
Trash bins have regulated waste. (buckets, liquids, etc.)	X		
Empty containers not in designated area.	X		[redacted]
Warning signs properly posted and in good condition.	X		
Facility looks presentable to public.		X	Maintenance mower need to be clean befor they are put in front
Facility lighting in good condition.		X	[redacted] 3-2, 5-1, 8-2, 10-1, -
			[redacted] Front Ilsan-2, Back Ilsan-1

[1] Refer to inspection guidelines on back of this form.

725 dyl

LOGGING SHOP

Facility Location: FARMINGTON Time: 11:00

Inspection for the week of 2-9-98 by: 11:00 M. Hall Mgr

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1]	✓		
Spill kits properly maintained. [1]	✓		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1]	✓		LOCKER HOE SHOP
Equipment and hand tools properly maintained. [1]		✓	NEEDS NEW GRINDING WHEEL AND WIRE BRUSH
All containerized waste properly labeled. [2]	✓		
All containers are leak free.	✓		
Full or partial containers stored with bungs and lids in place.	✓		
All partials easily identified.	✓		
All product storage containers have product labels.	✓		
Empty chemical containers stored in designated area.	N/A		
All empty containers have product labels.		✓	LABEL GUN SCRAP METAL H2O CAN CEMENT MIXING WATER
Empty drums stored horizontal with bungs in place.	N/A		
All liquid chemicals secondarily contained.	N/A		
Air compressor equipped with condensate capture vessel.	✓		BOTTOM TANK DRAIN DRAINS OUT ON TO SHOP FLOOR
Air compressor condensate vessel properly maintained.	✓		
Area clean and free of chemical spills.	N/A		

[1] Refer to inspection guidelines.

[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

CHEMICAL DOCK/WAREHOUSE

Facility Location: Farmington Time: 3:00 PM

Inspection for the ~~week~~ month of FEB by: Richard NYE

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the _____. Conduct weekly inspections of the warehouse and immediate area, covered drum storage area, empty drum storage area, and hazardous waste storage area. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]		✓	Full time Job to keep clean
Fire extinguishers properly maintained. [1]		✓	I think we should have A class C Extinguisher
Spill kits properly maintained. [1]		✓	Need shovel + Rubber Gloves
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1]	✓		
Equipment and hand tools properly maintained. [1]	N	A	
All containerized waste properly labeled. [2]	✓		
All containers are leak free.	✓		
Full or partial containers stored with bungs and lids in place.	✓		
All partials easily identified.	✓		
All product storage containers have product labels.	✓		
Empty chemical containers stored in designated area.		✓	
All empty containers have product labels.	✓		
Empty drums stored horizontal with bungs in place.		✓	
All liquid chemicals secondarily contained.	✓		
Air compressor equipped with condensate capture vessel.	N	A	
Air compressor condensate vessel properly maintained.	N	A	
Area clean and free of chemical spills.		✓	

[1] Refer to inspection guidelines.

[2] Refer to Environmental Compliance Waste Storage and Transportation manual.

BULK MATERIALS PLANT HSE INSPECTION

Facility Location: Farmington, NM Time: 0900
Inspection for the week of Feb. by: Gene Roberts

Objective: Ensure the Health & Safety of employees and public while protecting the Environment

Pollution prevention and waste minimization are essential to the successful and cost effective operation of the bulk materials plant. Conduct monthly inspections of the plant and immediate area as noted below. Note yes or no for each line item and comment on corrective actions as required. File original in environmental file routed through facility coordinator. Verify and document corrective action.

Item	Yes	No	Corrective Action
House keeping guidelines being followed. [1]	✓		
Fire extinguishers properly maintained. [1]	✓		
Spill kits properly maintained. [1]	✓		
Personnel Protective Equipment (PPE) guidelines followed. [1]	✓		
Proper waste management guidelines followed. [1]	✓		
Flammable Cabinet properly maintained. [1] N/A		✓	Do Not Have One
Equipment and hand tools properly maintained. [1]	✓		
All tanks and piping are adequate and leak free.			
Dust collector maintenance procedures in place and followed. [2]	✓		
Regular inspections completed and documented[2]	✓		
Area free of loose cement / additives.	✓		
Waste cement and samples properly managed.	✓		
All liquid chemicals secondarily contained.		✓	Not enought Room
Plant operating procedures current and followed. [2]	✓		
Vendor off loading procedure in place and followed. [2]	✓		
Air compressor dump piped to condensate vessel.	✓		One High Press. Compr. Doesn't
Air compressor condensate vessel checked for fluid level.	✓		
Evidence of recent cement or additive dust release.	✓		
Empty chemical containers stored in designated area.	✓		
All partials easily identified.	✓		

[1] Refer to inspection guidelines on back of this form.
[2] Refer to Bulk Materials Maintenance Manual.

ATTACHMENT V

STORMWATER POLLUTION PREVENTION PLAN (FORTHCOMING)

STORM WATER POLLUTION PREVENTION PLAN
HALLIBURTON ENERGY SERVICES
4109 East Main Street
Farmington, New Mexico

INTRODUCTION

The purpose of the Plan is to protect water quality by reducing the amount of pollutants in storm water runoff. These pollutants come from two sources: 1) our outdoor activities, and 2) atmospheric deposition over which we have no control. The Plan covers the entire facility.

1.1 Purpose of the SWPPP

Company Policy requires us to prepare a Storm Water Pollution Prevention Plan (SWPPP). It describes the measures that we will take to protect stormwater quality. This plan is to be kept on the premises.

1.2 BMP Implementation Committee

The Policy requires that the SWPPP identify personnel to oversee the implementation of any measures to reduce pollution, called Best Management Practices (BMP), and to modify the SWPPP as necessary over time. We have formed a team, which participated in the preparation of this plan and will oversee its implementation.

1.3 Implementation Schedule

All of the recommendations of BMPs made by the team (that do not involve the expenditures of capital funds) are to be implemented by the end of April 1998.

1.4 Protocol on Public Access to the SWPPP

Although this is a Company plan, meant for the use by our employees, it is a public document. Representatives of Government who visit the Facility are allowed direct access to the plan when on site. Any request for a copy of the plan is to be forwarded to the Area Health, Safety and Environment Manager.

Business Definition
Farmington District

The Farmington District facility is located at 4109 E. Main Farmington N. M. 87402. The Primary services provided are hydraulic fracturing, cementing, and acidizing oil and gas wells.

Maintenance of trucks and loading of bulk materials occur at the facility. Truck maintenance is performed in an enclosed shop that is self-contained. Trucks are washed in enclosed structure, water from the wash rack discharge to the sewer. Solids are tested annually and disposed of at a certified solid waste land farm.

A complete list of commonly used chemicals stored at the facility is attached. Loading and unloading of all bulk liquids is done in contained areas. Dry bulk materials stored at the facility include cement, gel, silica flour, gilsonite and sand. Dust collectors are used to control emissions from the bulk plant.

Sacked dry chemicals are stored in either a covered area, or in an enclosed building. Drummed liquid chemicals may either be stored in an enclosed building, covered area, or in the open. All liquid chemicals are stored within secondary containment. All chemicals are stored on cement or paved surfaces.

The facility was not built to contain stormwater runoff or to divert stormwater runon.

Site Assessment
Halliburton Services- Farmington District

Material Inventory:
A variety of materials are stored in several different forms, the majority of, which are stored in covered or contained areas.

Chemical Terminal:
HCL acid is stored, in a concentrated form, in a sealed tank. This tank is inside a coated concrete containment structure. Connections for loading of the HCL acid tank are also inside the structure. Any spills occurring inside the structure are immediately recovered and reused. An inspection of the facility found no leaks.

Additional additives are stored in the acid additive drum storage area. Additives are either stored in closed drums or in large bulk portable containers. There is minimal exposure of these drummed chemicals to storm water because the chemicals are stored and handled within secondary containment. Any stormwater that is captured in the containment is recovered and reused for acid blending.

Acid is loaded into Halliburton transports overhead through a hatch on the top of the transport. The transport is situated on a coated concrete, contained loading bay during this process. The loading bay is equipped with a retaining pit and concrete berm to contain any spill. Any spills are immediately recovered and reused.

LGC Terminal:
LGC is a concentrated polymer solution containing gel and diesel. LGC is stored at the terminal in sealed tanks. All tanks are located within concrete containment. All mixing and loading of the LGC occurs on the cement structure. Any spills occurring inside the structure are immediately cleaned and properly disposed. An inspection of the facility found no leaks.

Cement Bulk and Sand Bulk Storage and Admix Building:
Bulk cement, bulk sand, proppants and cement additives are stored in a series of fully enclosed storage vessels. Sacked cement additives are stored in the cement materials warehouse. Any spills occurring inside the warehouse are immediately cleaned and properly disposed of.

Mixing and transfer of materials from the plant to a bulk truck is done pneumatically. A dust collection system is used to control emissions from the facility while handling the bulk additives.

Maintenance Shop:
Truck maintenance is performed in enclosed shops. The main truck shop is equipped with a concrete foundation that is self-contained. Any spills are cleaned up using an absorbent and properly disposed.

Trucks are serviced in the main shop. All used oil is discarded in a Used Oil tank. The used oil tank is located in the wash rack within secondary containment. Used oil filters are drained at least 12 hour and placed in sealed drum and shipped back to our Duncan OK TSDF for reclamation.

Grease Shop:
Trucks are lubricated in this shop. Lubricants are stored in sealed bulk storage tanks and sealed drums in s self contained, concrete floored, covered shop. Any spills occurring inside the grease shop are immediately cleaned and properly disposed.

Wash Rack:
Truck washing is performed in an enclosed structure. Each wash bay is equipped with a floor drain, which separates solids and skims oil. These drain to a three-stage separation facility that empties to city sewer.

Drum Storage Area:
Chemicals are stored in sealed portable containers or drums. This area is paved and curbed with asphalt. Inspections of this area are performed daily with any spills detected immediately cleaned and properly disposed.

Miscellaneous:
In addition to the previously described management practices the following are also in effect: Trash containers are conveniently located throughout the facility and regularly emptied by a waste handling service. Paved surfaces are inspected and cleaned as required. Used drums, sacks, pallets, etc. are properly discarded. Reusable drums are returned. Non-use areas are cleaned of weed and debris as needed. Management maintains a good housekeeping policy.

Past Spills, and Leaks:

There have been no significant spills at this facility in the past three years.

Non-Storm Water Discharges:

There is significant stormwater runon onto our property from the city street system and leaves our property to the south. There is no system set up at the present time to contain the water runoff.

POLLUTION PREVENTION TEAM MEMBERSHIP ROSTER

Worksheet #1
Completed by: TERESA WHITE
Title: Health, Safety & Environmental Team Leader
Date: 03/18/98

Facility Information:

4109 East Main St.
Physical Address (actual physical location):
Same as above
Mailing Address (P.O. Box, Rural Route and Box, or Street Address)
Farmington, New Mexico 87402
City State Zip

Team Leader: TERESA WHITE
Title: LAB TECHINCIAN
Phone: (505) 324- 3500

Responsibilities: TO PROVIDE THE LEADERSHIP TO ENSURE THE DEVELOPMENT & IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN. LEAD ONGOING COMPLIANCE, REVIEW & UPDATE OF THE PLAN.

Members:

1. James Robinson Title: MECHANIC
Responsibilities: TO ASSIST IN DEVELOPMENT & IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN. PROVIDE LEADERSHIP & SET GOOD EXAMPLES FOR THE ONGOING COMPLIANCE AND PLAN REVIEW.

2. Rick Greenacker Title: Tool repair tech
Responsibilities: TO ASSIST IN DEVELOPMENT & IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN. PROVIDE LEADERSHIP & SET GOOD EXAMPLES FOR THE ONGOING COMPLIANCE AND PLAN REVIEW.

3. BUDDY PETERSON Title: Operations Engineer
Responsibilities: TO ASSIST IN DEVELOPMENT & IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN. PROVIDE LEADERSHIP & SET GOOD EXAMPLES FOR THE ONGOING COMPLIANCE AND PLAN REVIEW.

4. Dale Kalcich Title: Team Leader Stimulation
Responsibilities: TO ASSIST IN DEVELOPMENT & IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN. PROVIDE LEADERSHIP & SET GOOD EXAMPLES FOR ONGOING COMPLIANCE AND PLAN REVIEW.

5. Gary Dobbs Title: Material Specialist
Responsibilities: TO ASSIST IN DEVELOPMENT & IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN. PROVIDE LEADERSHIP & SET GOOD EXAMPLES FOR ONGOING COMPLIANCE AND PLAN REVIEW.

6. Ray Cartwright Title: Material Specialist
Responsibilities: TO ASSIST IN DEVELOPMENT & IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN. PROVIDE LEADERSHIP & SET GOOD EXAMPLES FOR ONGOING COMPLIANCE AND PLAN REVIEW.

MATERIAL INVENTORY

Worksheet #3
Completed by: TERESA WHITE
Title: Health, Safety & Environmental Team Leader
Date: 03/18/98

Facility Information:

Physical Address (actual physical location):
4109 East Main St
Mailing Address (P.O. Box, Rural Route and Box, or Street Address)
Farmington, New Mexico 87402
City State Zip

Instructions: List all materials used, stored, or produced on-site. Assess and evaluate these materials for their potential to contribute pollutants to storm water runoff. Also complete Worksheet 3a if the material has been exposed during the past three years.

Material	Purpose/Location	Quantity (Units)			Quantity Exposed in Last 3 Years	Likelihood of contact with storm water? If yes, describe reason.	Past Significant Spill or Leak	
		Used	Produced	Stored			Yes	No
Chemical/liquid	drum storage	x		2500 gals		Curbed and contained		x
Chemical/solid	add mixtures	x		25000 lbs.		In covered warehouse		x
Cement	bulk plant	x		variable		Loaded outside		x
Sand	bulk plant	x		variable		Loaded outside		x
Iron Storage	east fence	x		variable		Most is painted		x
Wash rack Grit	east of wash		x		Same	Exposed		x
Excess Cement Storage	south east corner	x		1380 cft		Some spillage		x

DESCRIPTION OF EXPOSED SIGNIFICANT MATERIAL

Worksheet #3a
Completed by: Teresa White
Title: Health, Safety & Environmental Team Leader
Date: 3/18/98

Facility Information:

Physical Address (actual physical location):
4109 East Main St

Mailing Address (P.O. Box, Rural Route and Box, or Street Address)
Farmington, New Mexico 87402

City State Zip

Instructions: Based on your material inventory, describe the significant materials that were exposed to storm water during the past three years and/or are currently exposed.

Description of Exposed Significant Material	Period of Exposure	Quantity Exposed (Units)	Location (as indicated on the site map)	Method of Storage or Disposal (e.g., pile, drum, tank)	Description of Material Management Practice (e.g., pile covered, drum sealed)
Chemicals, Liquid	continual	2500 Gallons	Drum Storage Area	Drums on Pallets or Hal Tanks	Secondary containment, sealed containers, proper handling procedures
Chemicals, Dry	Briefly while loading and unloading	+25,000 pounds	Chemical Warehouse	Pallets	Stored inside warehouse, loaded and unloaded outside
Cement	None	bulk	In Northeast Corner	Sealed Storage Tanks	Loading & Unloading Pneumatically done. Dust Collection system to control emissions
Sand	None	bulk	East Center	Sealed Storage Tanks	Loading & Unloading Pneumatically done. Dust Collection system to control emissions
Iron Storage	continual	Various	East Center	Stacked on Pallets	Keep Painted , Minimize storage time
Wash Rack Grit	continual	25 cubic yards	Northeast Corner near wash bays	Stored in concrete walled area	Kept in concrete storage until hauled to Land Farm
Excess Cement Storage	Small amount of spilled material	residual amounts	South East Corner	Sealed storage vessels	Loading & unloading Pneumatically done. Proper handling procedures

NON-STORM WATER DISCHARGE ASSESSMENT AND CERTIFICATION

Worksheet #5
Completed by: TERESA WHITE
Title: Health, Safety & Environmental Team Leader
Date: 3/18/1998

Location:
Pumping Service Facility City Farmington ST New Mexico ZIP 87402

Date of Test or Evaluation	Outfall Directly Observed During the Test (Identify as Indicated on the Site Map	Method Used to Test or Evaluate Discharge	Describe Results from Test for the Presence of Non-Storm Water Discharge	Identify Potential Significant Sources	Name of Person Who Conducted the Test or Evaluation
10/15/94	located on the map as drainage area	rain event	n/a	oil and dirt	Gary Morris

CERTIFICATION

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

A. Jim Haney Shared Services Supervisor	B. Area Code & Telephone # (505) 324-3500
C. Signature	D. Date Signed

NOTE: This worksheet MUST be signed by the Shared Services Supervisor.

NON-STORM WATER DISCHARGE ASSESSMENT AND FAILURE TO CERTIFY NOTIFICATION	**Worksheet #6** Completed by: TERESA WHITE Title: Health, Safety & Environmental Team Leader Date: 3/18/1998

Location:
4109 East Main St Facility City Farmington ST New Mexico ZIP 87402

Directions: If you cannot feasibly test or evaluate an outfall, fill in the table below with the appropriate information and sign this form to certify the accuracy of the included information.

List all outfalls not tested or evaluated, describe any potential sources of non-storm water pollution from listed outfalls, and state the reason(s) why certification is not possible. Use the key from your site map to identify each outfall.

Important Notice: A copy of this notification must be signed and submitted to the Director within 180 days of the effective date this permit.

Identify Outfall Not Tested/Evaluated	Description of Why Certification is Infeasible	Description of Potential Sources of Non-Storm Water Pollution
NOT APPLICABLE		

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations, and that such notification has been made to the Director within 180 days of _____ (date permit was issued), the effective date of this permit.

A. Jim Haney Shared Services Supervisor	B. Area Code & Telephone # (505) 324-3500
C. Signature	D. Date Signed

POLLUTANT SOURCE IDENTIFICATION
(Section 2.2.6)

Worksheet #7
Completed by: TERESA WHITE
Title: Health, Safety & Environmental Team Leader
Date: 3/18/1998

Location: 4109 EAST MAIN STREET City FARMINGTON ST NM ZIP 87402

Instructions: List all identified storm water pollutant sources and describe existing management practices that address those sources. In the third column, list BMP options that can be incorporated into the plan to address remaining sources of pollutants.

Storm Water Pollutant Sources	Existing Management Practices	Description of New BMP Option
1. Wash Bays	The wash bays are covered and enclosed on three sides. Mud and Grit removed periodically and area cleaned. Some overspray travels out of bays.	Good Housekeeping, and Inspections. Overspray controlled
2. Parking Areas	Oil and Grease on Parking areas. The area is inspected and cleaned at least monthly.	Regular Inspections, Preventative maintenance equipment, designated parking areas ; cleanup weekly
3. Chemical Storage Area	Curbed, stormwater recovered and reused	Good Housekeeping ; Inspections ; Spill Prevention and response ; Proper practices and procedures
4. Chemical Terminal	All activities at Chemical Terminal is within secondary containment. All stormwater collected and reused.	Preventative Maintenance and Inspections Good housekeeping ; Improve Loading and Unloading Procedures
5. LGC Plant	All acitivities at LGC plant is within secondary containment. Stormwater collected and reused	Weekly inspections ; In containment ; Proper practices and procedures
6. Washrack Grit Drying Slab	Removed offsite periodically	New slab that drains to washbay sumps
7. Lubrication Bays	Clean up spills/leaks with absorbents	Good Housekeeping ; Preventative maintenance ; Inspections and proper work procedures
8. Bulk Cement Storage	Sweep up after loading & unloading	Preventive maintenance ; Good Housekeeping
9. Bulk Sand Storage	Sweep up after loading & unloading	Preventive maintenance ; Good Housekeeping
10. Empty Container Storage	Stored within secondary containment. Storwater allowed to dry	Cover with roof

BMP IDENTIFICATION
(Section 2.3.1)

Worksheet #7a
Completed by: TERESA WHITE
Title: Health, Safety & Environmental Team Leader
Date: 3/18/1998

Location: 4109 East Main St Facility City Farmington ST New Mexico ZIP 87402

Instructions: Describe the Best Management Practices you have selected to include in your plan. For each of the baseline BMPs, describe actions that will be incorporated into facility operations. Also describe any additional BMPs (activity-specific and site-specific) you have selected. Attach additional sheets if necessary

Best Management Practices	Brief Description of Activities
GOOD HOUSEKEEPING	MATERIALS STORED PROPERLY. KEEP WORK AREAS ORGINIZED. ADDRESS SPILLS PROPERLY. PROVIDE COMPLETE MAINTENANCE AS NEEDED. CREATE & IMPLEMENT A "CLEAN " STANDARD. PERIODIC EMPLOYEE AWARNESS TRAINING.
PROPER WORK PROCEDURES AND PRACTICES	DEVELOP AND DOCUMENT PROPER WORK PRACTICES AND PROCEDURES TO MINIMIZE INCIDENTS.
PREVENTATIVE MAINTENANCE	COMPLETE PROPER PRE/POST TRIP INSPECTION RECORDING ANY DEFICIENCIES. IDENTIFY, SCHEDULE, RESPOND TO ANY DEFICIENCIES, IMPLEMENT ACCOUNTABILTY FOR EQUIPMENT AND WORK AREAS.
TIERED INSPECTIONS	COMPLETE DAILY, WEEKLY AND MONTHLY FACILTY SELF AUIDIT. FOLLOW UP BY COMPLETING ACTION ITEMS IN A TIMELY MANNER. PRE / POST TRIP INSPECTIONS COMPLETED AND CORRECTIVE ACTION COMPLETED.
SPILL PREVENTION AND RESPONSE	MAINTAIN A TRAINED SPILL REPONSE TEAM. AWARNESS TRAINING FOR ALL EMPLOYEES. FOLLOW PROPER MAINTENANCE PROCEDURES. GOOD HOUSEKEEPING. ADHERE TO INCIDENT REPORTING AND FOLLOW UP PROGRAM. SPILL KITS USED AND MAINTAINED.
SEDIMENT AND EROSION CONTROL	PAVING AND GRAVELING CERTAIN AREAS TO MINIMIZE EROSION.
STORMWATER RUNOFF MANAGEMENT	ENGINEERING CONTROLS. GOOD HOUSEKEEPING. SPILL PREVENTION AND RESPONSE. DIVERSION STRUCTURES TO CONTROL RUNON AND DIRECT RUNOFF.
RISK MANAGEMENT AND EVALUATION	USE RISK MANAGEMENT TECHNIQUES TO IDENTIFY AND CORRECT POTENTIAL ENVIRONMENTAL RISKS IN EVERYDAY ACTIVITIES.
QUARTERLY STORMWATER MONITORING	SAMPLE STORMWATER QUARTERLY TO EVALUATE RUNOFF QUALITY

IMPLEMENTATION
(Section 2.4.1)

Worksheet #8
Completed by: TERESA WHITE
Title: Health, Safety & Environmental Team Leader
Date: 3/18/1998

Location: 4109 East Main Facility City Farmington ST New Mexico ZIP 87402

Instructions: Develop a schedule for implementing each BMP. Provide a brief description, the steps necessary for implementation (i.e., any construction or design), the schedule for completing those steps (list dates), and those responsible for implementation.

BMPs	Description of Action Required for Implementation	Scheduled Completion Date	Person Responsible for Action	Description of Activities
Good Housekeeping	PSL, /Department Define Minimum expectations	On going	Team Leader/ PSL Coord/ Shared Services	Identify problems with tiered inspections, define Corrective Actions and assign responsible person
	Provide resources & implement.	On going	Team Leader / Psl Coord /Shared Services	
	Follow up.	Ongoing		
Preventative Maintenance	Employee Awareness Training	Ongoing	Team & MBU leader	
	Accountability	Ongoing	Team leader/ PSL Coord	
Inspections	Implement Daily, Weekly, &Monthly Inspections	Ongoing	HSE Team	
	Pre /Post Trip Inspections	Ongoing	Team Leader /MBU Member	
Spill Prevention and Response	Review Awareness Training.	At Team/ Bus Review Mtg.	Team Leader/HSE Team environmental Coord	
	Procedures Followed.	Ongoing	All Employees.	
Sediment and Erosion Control	Maintain Paving	Ongoing	Shared Service Supervisor	Continue protect & gravel areas of exposed soil
Management of Runoff	See Good Housekeeping.	Ongoing	All Personal	
	See Inspections.			
Additional BMPs (Activity-specific and Site-specific)	Assign Parking Areas For Equipment	Ongoing	HSE Team /PSL Coord	

EMPLOYEE TRAINING (Section 2.4.2)	Worksheet #9 Completed by: TERESA WHITE Title: Health, Safety & Environmental Team Leader Date: 3/18/1998

Location: 4109 East Main St Facility City Farmington ST New Mexico ZIP 87402

Instructions: Develop a schedule for implementing each BMP. Provide a brief description, the steps necessary for implementation (i.e., any construction or design), the schedule for completing those steps (list dates), and those responsible for implementation.

Training Topic	Brief Description of Training Program/Materials (e.g., film, newsletter, course)	Schedule for Training (list dates)	Attendees
Spill Prevention and Response	Facility specific spill contingency plan and Hazwoper training	June 1998 and annual refresher	Selected Spill Response Team
Good Housekeeping	Tiered Inspection Program and Corrective Actions	April 1998 and annually thereafter	All Employees.
Material Management Practices	Material Management Training.	Ongoing	Materials Personnel
Other Topics	Environmental Awareness Training. Stormwater Pollution Prevention Training Waste Storage and Transportation Cement/Sand Plant Environmental Mgmt. Chemical Terminal Environmental Mgmt. Maintenance Shop Environmental Mgmt.	Ongoing Annually Annually Annually Annually Annually	All Employees All Employees Materials Personnel Bulk Plant Personnel Chemical Terminal Pers. Maintenance Personnel

DESCRIPTION OF EXPOSED SIGNIFICANT MATERIAL

Worksheet #3a
Completed by: Teresa White
Title: Health, Safety & Environmental Team Leader
Date: 3/18/98

Facility Information:
Physical Address (actual physical location):
4109 East Main St
Mailing Address (P.O. Box, Rural Route and Box, or Street Address)
Farmington, New Mexico 87402
City State Zip

Instructions: Based on your material inventory, describe the significant materials that were exposed to storm water during the past three years and/or are currently exposed.

Description of Exposed Significant Material	Period of Exposure	Quantity Exposed (Units)	Location (as indicated on the site map)	Method of Storage or Disposal (e.g., pile, drum, tank)	Description of Material Management Practice (e.g., pile covered, drum sealed)
Chemicals, Liquid	continual	2500 Gallons	Drum Storage Area	Drums on Pallets or Hal Tanks	Secondary containment, sealed containers, proper handling procedures
Chemicals, Dry	Briefly while loading and unloading	+25,000 pounds	Chemical Warehouse	Pallets	Stored inside warehouse, loaded and unloaded outside
Cement	None	bulk	In Northeast Corner	Sealed Storage Tanks	Loading & Unloading Pneumatically done. Dust Collection system to control emissions
Sand	None	bulk	East Center	Sealed Storage Tanks	Loading & Unloading Pneumatically done. Dust Collection system to control emissions
Iron Storage	continual	Various	East Center	Stacked on Pallets	Keep Painted , Minimize storage time
Wash Rack Grit	continual	25 cubic yards	Northeast Corner near wash bays	Stored in concrete walled area	Kept in concrete storage until hauled to Land Farm
Excess Cement Storage	Small amount of spilled material	residual amounts	South East Corner	Sealed storage vessels	Loading & unloading Pneumatically done. Proper handling procedures

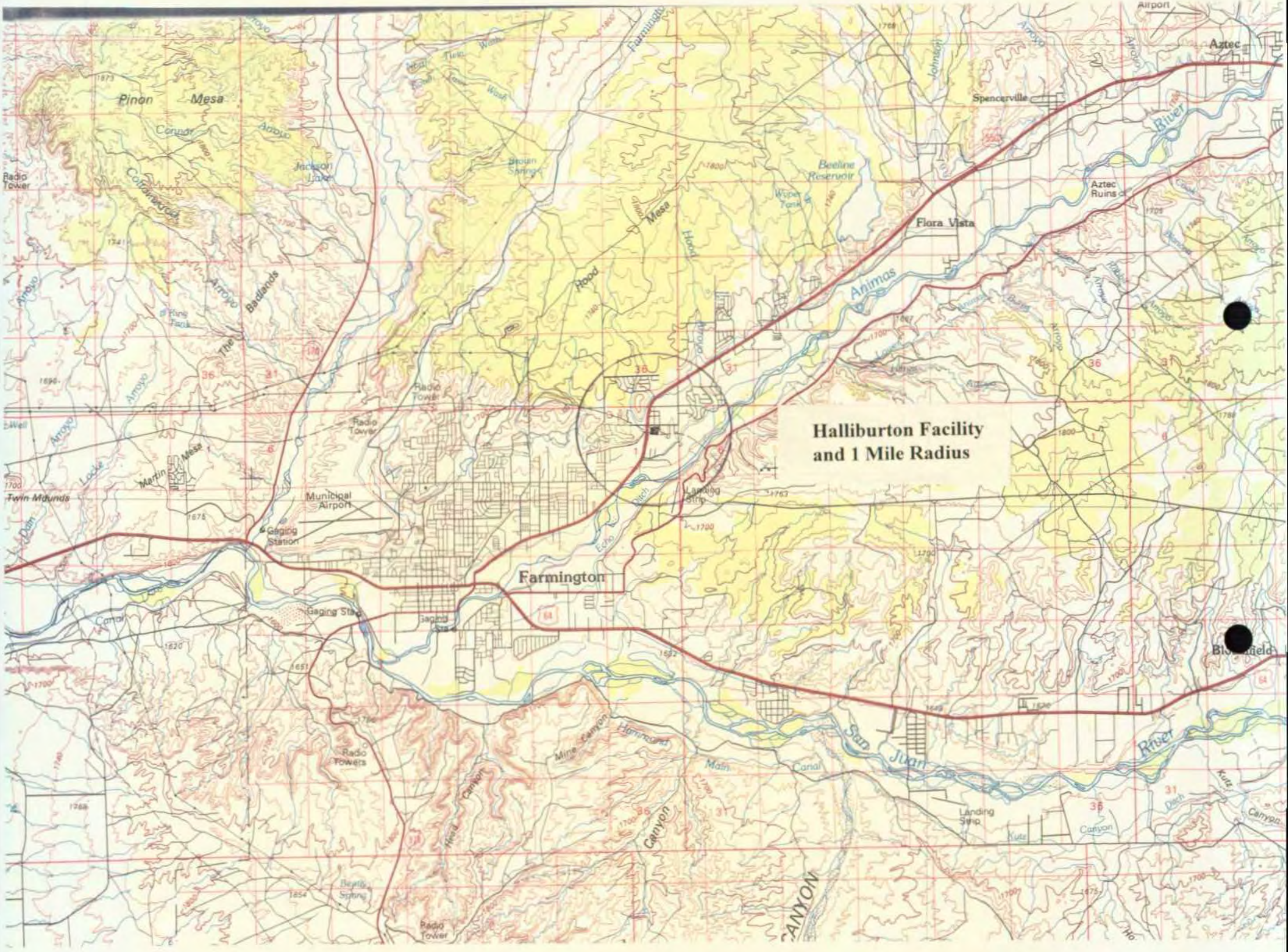
ATTACHMENT VI

SPILL CONTINGENCY PLAN

(FORTHCOMING)

ATTACHMENT VII

MAP SHOWING ONE MILE RADIUS AND WATER BODIES


Halliburton Facility
and 1 Mile Radius
Farmington
Flora Vista
Aztec
Spencerville
Aztec Ruins
Pinon Mesa
Rood Mesa
The Badlands
Animas River
San Juan River
Municipal Airport
Beeline Reservoir
Jackson Lake
Twin Mounds
Martin Mesa
Landing Strip
Radio Tower
Radio Towers
Gaging Station
Airport
CANYON

ATTACHMENT VIII

SUBSURFACE INVESTIGATION

san juan testing laboratory, inc.

PHONE:
327-9944

909 W. APACHE • P. O. BOX 2079 • FARMINGTON, NEW MEXICO 87401

March 11, 1975

Halliburton Services Co.
P. O. Drawer 960
Farmington, New Mexico

Attn. Raymond Gunn
District Superintendent

Re: Bulk Plant Addition
Halliburton Services Co.
Farmington, New Mexico

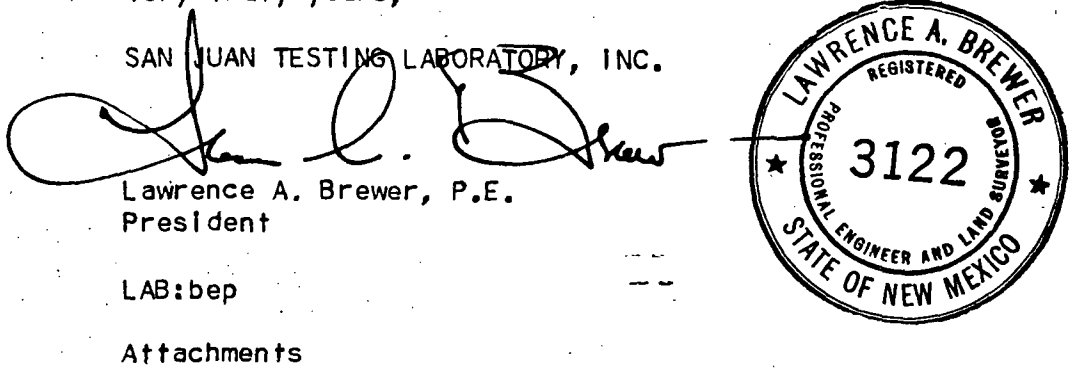
Dear Mr. Gunn:

Pursuant to your request, we have completed the subsurface investigation for the referenced plant expansion. The attached report includes test boring logs, soil resistivity summary, conclusions and recommendations regarding recommended foundation systems for the proposed bulk plant. If additional information is required, do not hesitate to contact us.

Pursuant to your instructions, we have forwarded two copies of this report to Mr. Jack Kramer with the Bulk Construction Department in Duncan, Oklahoma.

Very truly yours,

SAN JUAN TESTING LABORATORY, INC.



Lawrence A. Brewer, P.E.
President

LAB:bep

Attachments

CC: Jack Kramer

BULK PLANT ADDITION
HALLIBURTON SERVICES CO.
FARMINGTON, NEW MEXICO
SUBSURFACE INVESTIGATION

GENERAL CRITERIA

Three test borings were attempted beneath the proposed structures to depths of 7' to 9'. The test borings were located beneath the proposed addition as indicated on Project Drawing No. FC 268A dated January 1975. Said test holes were extended by rotary drilling utilizing an Acker Terado truck mounted drill rig to the depths indicated on the logs. Rotary drilling of gravel, cobbles and boulders is extremely difficult and expensive. For this reason, advancement of test borings was terminated at the depths shown. Backhoe test pits were considered but were rejected due to the potential damage to the existing parking lot paving. An alternate solution to advancing the test borings thru the use of a cable tool was the earth resistivity method.

Earth resistivity readings were taken at two locations in the project area as shown on Plate "A" at depth intervals of 3'. Resistivity readings were established thru the utilization of a Strata Scout resistivity meter, Model R-40, manufactured by Soil Test, Inc.. The electrode spacing and readout calculations are based on the Wenner method. The results of the resistivity readings are summarized on Sheets 6 and 7. The resistivity readings correlate with projected depths of the various subgrade strata as evidenced by the other subsurface investigations and by outcrops in the vicinity. A geologic cross section, Plate "B", indicates the projected subgrade strata beneath the site.

The location of the test holes and their relationship to the proposed plant expansion are shown on Plate "A". The boring logs, complete with laboratory analysis, AASHO classifications, in place moisture, penetration resistance, etc., are shown on Sheets 3, 4 and 5.

Substrata conditions at the site consist of sedimentary and alluvial deposits of clayey silt, sand, gravel and cobbles, with the entire site underlain by sandstone as evidenced by the resistivity survey and test borings completed for others and shown graphically on the geologic section, Plate "B".

Conclusions and recommendations regarding maximum bearing values, recommended footing systems and other data pertinent to the development of the project at the site are summarized on pages 8, 9 and 10.

SAN JUAN TESTING LAB INC.
909 WEST APACHE
FARMINGTON, NEW MEXICO

TEST BORING LOG

HOLE NO. 1 COLLAR ELEVATION 101.3

PROJECT ADMIX BUILDING

LOCATION FARMINGTON, N.M.

DATE MARCH 11, 1975

CLIENT HALLIBURTON SERVICES

LAB NO. 18174

INTERVAL	DESCRIPTION	SIEVE ANALYSIS			ATTERBERG LIMITS			EXIST. MOIST. %	PENE-TRATION	A.A.S.H.O. CLASSFICATION	UNIFIED CLASS	REMARKS
		PASSING NO. 10	PASSING NO. 40	PASSING NO. 200	L.L.	P.L.	P.I.					
0'-2'	CLAYEY SILT				22.3	N.P.	N.P.			A-1-b		
2'-6'	SAND & GRAVEL W/ COBBLES	23.7	10.2	2.1	N.P.	N.P.	N.P			A-1-b		
6'-9'	GRAVEL & COBBLES	10.3	4.1	2.9	N.P.	N.P.	N.P.		100/1"	A-1-b		

SAN JUAN TESTING LAB INC.
909 WEST APACHE
FARMINGTON, NEW MEXICO

TEST BORING LOG

HOLE NO. 2 COLLAR ELEVATION 101.3

PROJECT ADMIX BUILDING

LOCATION FARMINGTON, N.M.

DATE MARCH 11, 1975

CLIENT HALLIBURTON SERVICES

LAB NO. 18175

INTERVAL	DESCRIPTION	SIEVE ANALYSIS			ATTERBERG LIMITS			EXIST. MOIST. %	PENE-TRATION	A.A.S.H.O. CLASSFICATION	UNIFIED CLASS	REMARKS
		PASSING NO. 10	PASSING NO. 40	PASSING NO. 200	L.L.	P.L.	P.I.					
0' - 2'	CLAYEY SILT				22.3	N.P.	N.P.			A-1-b		
2' - 4'	SAND & GRAVEL w/ COBBLES	23.7	10.2	2.1	N.P.	N.P.	N.P			A-1-b		
4' - 7'	GRAVEL & COBBLES	10.3	4.1	2.9	N.P.	N.P.	N.P.		100 | 1¼"	A-1-b		

SAN JUAN TESTING LAB INC.
909 WEST APACHE
FARMINGTON, NEW MEXICO

TEST BORING LOG

HOLE NO. 3 COLLAR ELEVATION 100.6

PROJECT ADMIX BUILDING

LOCATION FARMINGTON, N.M.

DATE MARCH 11, 1975

CLIENT HALLIBURTON SERVICES

LAB NO. 18176

INTERVAL	DESCRIPTION	SIEVE ANALYSIS			ATTERBERG LIMITS			EXIST. MOIST. %	PENE-TRATION	A.A.S.H.O. CLASSFICATION	UNIFIED CLASS	REMARKS
		PASSING NO. 10	PASSING NO. 40	PASSING NO. 200	L.L.	P.L.	P.I.					
0'-2½'	CLAYEY SILT				22.3	N.P.	N.P.			A-1-b		
2½'-6'	SAND & GRAVEL w/ COBBLES	23.7	10.2	2.1	N.P.	N.P.	N.P.			A-1-b		
6'-8'	GRAVEL & COBBLES	10.3	4.1	2.1	N.P.	N.P.	N.P.		100/1½"	A-1-b		

SAN JUAN TESTING LAB, INC.
909 WEST APACHE
FARMINGTON, NEW MEXICO

RESISTIVITY SURVEY

CLIENT HALLIBURTON SERVICES — DATE MARCH 11, 1975

PROJECT ADMIX BUILDING — LOCATION FARMINGTON NEW MEXICO

HOLE NO. A — LAB NO 18177 — COLLAR ELEV. 100.93

PROBE SETTING		DIRECTION					DIRECTION			
RED	BLACK	DEPTH	OHMS	MHOS	LAYER MHOS	RESISTIVITY	OHMS	MHOS	LAYER MHOS	RESISTIVITY
1.5	4.5	0-3	33.3	.030	.030	19,000				
3.0	9.0	3-6	19.8	.051	.021	27,000				
4.5	13.5	6-9	11.7	.085	.034	17,000				
6.0	18.0	9-12	9.37	.107	.022	26,000				
7.5	22.5	12-15	7.84	.128	.021	27,000				
9.0	27.0	15-18	7.32	.137	.009	64,000				
10.5	31.5	18-21	6.69	.149	.012	48,000				
12.0	36.0	21-24	6.01	.166	.017	33,000				
13.5	40.5	24-27	5.01	.200	.034	17,000	A			
15.0	45.0	27-30	4.59	.218	.018	32,000				
16.5	49.5	30-33	4.52	.221	.003	192,000	B			
18.0	54.0	33-36								
19.5	58.5	36-39								
21.0	63.0	39-42								
22.5	67.5	42-45								
24.0	72.0	45-48								
25.5	76.5	48-51								
27.0	81.0	51-54								
28.5	85.5	54-57								
30.0	90.0	57-60								
31.5	94.5	60-63								
33.0	99.0	63-66								
34.5	103.5	66-69								
36.0	108.0	69-72								
37.5	112.5	72-75								

REMARKS

A - H_2O
B - SANDSTONE

TEST No. 16127

SAN JUAN TESTING LAB, INC.
909 WEST APACHE
FARMINGTON, NEW MEXICO

RESISTIVITY SURVEY

CLIENT HALLIBURTON SERVICES — DATE MARCH 11, 1975

PROJECT ADMIX BUILDING — LOCATION FARMINGTON NEW MEXICO

HOLE NO. B — LAB NO. 18178 — COLLAR ELEV. 100.88

PROBE SETTING		DIRECTION					DIRECTION			
RED	BLOCK	DEPTH	OHMS	MHOS	LAYER MHOS	RESISTIVITY	OHMS	MHOS	LAYER MHOS	RESISTIVITY
1.5	4.5	0-3	102.0	.010	.010	57,000				
3.0	9.0	3-6	53.8	.018	.008	72,000				
4.5	13.5	6-9	31.4	.027	.009	64,000				
6.0	18.0	9-12	25.1	.039	.012	48,000				
7.5	22.5	12-15	19.1	.052	.013	44,000				
9.0	27.0	15-18	15.9	.063	.011	52,000				
10.5	31.5	18-21	12.0	.083	.020	29,000				
12.0	36.0	21-24	9.9	.101	.018	32,000				
13.5	40.5	24-27	8.6	.116	.015	38,000				
15.0	45.0	27-30	7.67	.130	.014	41,000	A			
16.5	49.5	30-33	6.75	.148	.018	32,000				
18.0	54.0	33-36	5.69	.176	.028	20,500	B			
19.5	58.5	36-39	5.69	.178	.002	288,000				
21.0	63.0	39-42	5.92	.180	.002	288,000				
22.5	67.5	42-45								
24.0	72.0	45-48								
25.5	76.5	48-51								
27.0	81.0	51-54								
28.5	85.5	54-57								
30.0	90.0	57-60								
31.5	94.5	60-63								
33.0	99.0	63-66								
34.5	103.5	66-69								
36.0	108.0	69-72								
37.5	112.5	72-75								

REMARKS

A - H_2O

B - SANDSTONE

TEST No. 16127

BULK PLANT ADDITION
HALLIBURTON SERVICES CO.
FARMINGTON, NEW MEXICO
SUBSURFACE INVESTIGATION

CONCLUSIONS & RECOMMENDATIONS

The subgrade strata encountered at the site as evidenced by this investigation is clayey silt, sand, gravel and cobbles, underlain by an extensive strata of sedimentary sandstone. No potentially expansive soil was encountered at the site. Free water could be encountered at a depth of 24'.

The correlation between new test borings, test borings and pits completed by others and the resistivity survey results is summarized graphically on the north-west south-east cross sections shown on Plate "A".The extent of the cobblestone layer, the water table and the surface of the sedimentary sandstone is approximate beneath the site since the resistivity survey is only accurate to approximately half the interval measured or approximately 2'.

We recommend that the footing system for the proposed plant expansion be founded at least 4' into the cobblestone strata.

The footing system may be composed of reinforced concrete footings and stem walls or spot footings with grade beams with footings founded as outlined above. The maximum soil pressure imposed by the footing system should not exceed 6,500 pounds per square foot for combined live and dead loads.

Footings adjacent to the existing facility should be founded at depths similar to those existing footings regardless of depth and should be sized on the basis of existing soil bearing pressures imposed by the existing structures. Settlement of the coarse granular non-cohesive soils is estimated to be less than 5/8" which total settlement should occur during construction.

The footing subgrade should be "over-excavated" to a minimum depth of 2" to eliminate the possibility of point bearing on any single boulder or cobble. Loose

gravel or cobbles should be removed from the excavation and the bottom of the footing excavation then brought back to "grade" with a non-plastic select backfill composed of crushed rock with the following gradation.

Sieve Designation	Percent Passing by Weight
1"	100%
No. 4	20%-45%
No. 200	0%-10%

The select backfill should be compacted to a density of 95% of the maximum density as determined by ASTM D-1557, Method "D", at optimum moisture content.

Interior load bearing walls or columns should be founded over spot footings with grade beams or continuous footings at depths similar to exterior footings in that area of the structure.

Interior slabs on grade should be isolated from all structural components of the footing system and should be founded over a 4" compacted subgrade composed of the select backfill as outlined above. A polyethlene vapor barrier should also be placed between the prepared subgrade and interior slabs. Interior non-load bearing partitions may be founded over thickened slabs, however, care should be exercised where such partitions join structural components through the placement of expansion joints or similar treatment to allow minor movement.

Compaction of slab subgrade and perimeter footing or grade beam backfill should be at least 95% of the maximum density as determined by ASTM D-1557, Method "A". Pressured plumbing placed below slabs on grade should be avoided where possible or should be installed in a pipe chase or water tight sleeve to insure the timely detection of leaks and reduce the possibility of saturating and subgrade strata. Gravity plumbing should be pressure tested where tested where placed below grade for similar reasons.

Exterior site grading should insure rapid run-off of surface waters. Down spouts, parking lot drainage, outside wash rack areas and other concentrations of

surface run-off should be avoided on the north sides of structures and should be extended away from all structures in suitably sized culverts or paved drainage ditches.

Street and parking lot construction should include recompaction of loosely consolidated fills prior to paving if "proof rolling" with a 50 ton roller indicates a lack of stability. The embankment areas should be compacted to 90% of the maximum density as determined by ASTM 698, Method "A" to within 12" of finished subgrade. Compaction for the remaining 12" of the embankment should meet 90% of ASTM D-1557, Method "A". The upper 6" of cut sections should also be compacted to a density of 90% of ASTM D-1557, Method "A". A minimum of 6" of dense graded aggregate base course should be placed over the compacted subgrade. The base course should be compacted to a density of 95% of ASTM D-1557, Method "B". A bituminous prime coat (MC70) may then be placed over the compacted base course at a rate not to exceed 0.15 gallons per square yard. Plant mixed asphaltic concrete paving should be placed to a depth of 3" over the prepared base.

The chemical analysis of the soils at the site indicate that Type II Air Entrained cement will provide adequate protection for all exposed concrete from the moderate sulfate content.

5490

5480

5470

SANDSTONE OUTCROP

5460

N 55° E

5450

U.S. HIGHWAY

5440

PROP. BLDG.

5430

SAND & GRAVEL WITH COBBLES

5420

SANDSTONE

WATER

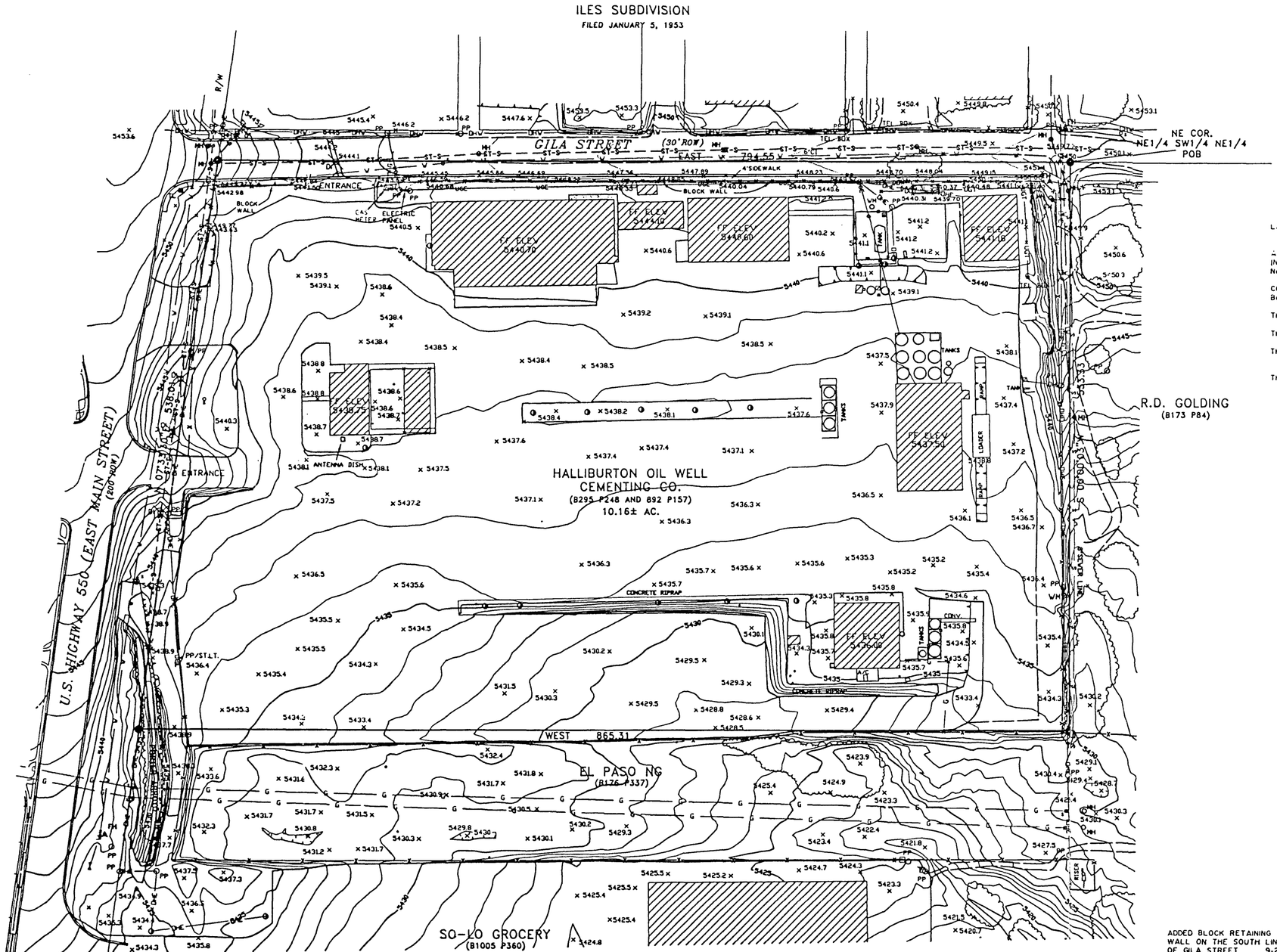
5410

5400

540

A SURVEY FOR
HALLIBURTON OIL WELL CEMENTING CO.

LYING IN THE NE1/4 SW1/4 NE1/4 OF SECTION 1,
T29N R13W, N.M.P.M., FARMINGTON, SAN JUAN COUNTY,
NEW MEXICO



LAND DESCRIPTION

A tract of land lying in the Northeast Quarter of the Southwest Quarter of the Northeast Quarter (NE1/4 SW1/4 NE1/4) of Section 1, T29N R13W, N.M.P.M., in Farmington, San Juan County, New Mexico, more particularly described as follows:

COMMENCING at the Northeast Corner of said NE1/4 SW1/4 NE1/4, the True Point of Beginning;

THENCE: S00°00'03"W and along the east line of said NE1/4 SW1/4 NE1/4 for a distance of 533.33 feet;

THENCE: WEST for a distance of 865.31 feet to the east right-of-way line of U.S. Highway 550;

THENCE: N07°33'30"E and along said east right-of-way line for a distance of 538.01 feet to a point on the north line of said NE1/4 SW1/4 NE1/4, also said point being on the south line of Gila Street;

THENCE: LEAVING said U.S. Highway 550 right-of-way line and EAST and along the south line of Gila Street and the north line of said NE1/4 SW1/4 NE1/4 for a distance of 794.55 feet and back to the true point of beginning. Said tract contains 10.16 acres, more or less, and is subject to any and all easements of record or in existence.

- ⊙ = 1/2x18" REBAR W/SURVEY CAP 6159 SET ON THIS SURVEY
- G = UNDERGROUND GAS LINE
- W = WATER LINE
- WM = WATER METER
- UGT = UNDERGROUND TELEPHONE
- OHW = OVERHEAD UTILITY WIRES
- OHE = OVERHEAD ELECTRIC LINE
- ST-S = STORM SEWER
- S = SANITARY SEWER LINE
- ⚬ = SIGN
- MH = UTILITY MAN HOLE
- TL = TRAFFIC LIGHT
- X = SPOT ELEVATION
- FF ELEV = FINISHED FLOOR ELEVATION
- ☼ = STREET LIGHT
- 6"C.I. = 6" CAST IRON WATER LINE
- ⋈ = WATER VALVE
- PP = POWER POLE
- FH = FIRE HYDRANT
- DI = DROP INLET FOR STORM SEWER

ADDED BLOCK RETAINING WALL ON THE SOUTH LINE OF GILA STREET 9-23-97

REMOVED STORM DRAIN NEAR SE CORNER OF TRACT 1-23-97

REVISION DATE

I, GEORGE T. WALTERS, A REGISTERED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE IN WHICH THIS SURVEY WAS PERFORMED, HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS OF THE STANDARDS FOR LAND SURVEYS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT NO ENCROACHMENTS EXIST EXCEPT AS NOTED ABOVE, AND THAT ALL IMPROVEMENTS ARE SHOWN IN THEIR CORRECT LOCATION WITH RESPECT TO RECORD BOUNDARIES AS LOCATED BY THIS SURVEY.

9-23-97
DATE

9-23-97
REVISION DATE

GEORGE T. WALTERS
PROFESSIONAL SURVEYOR NO. 6159
STATE OF NEW MEXICO

NEW MEXICO 6159 REGISTERED PROFESSIONAL SURVEYOR GEORGE T. WALTERS

MORTGAGE PLAT? NO	PROPERTY SURVEY? YES	MONUMENTS SET? YES
DRAWN BY: DON	PARTY CHIEF: GRT	APPROVED: GTW
DATE: 09-23-97	DATE OF FIELD SURVEY: 9-22-97	DEED: GUARDIAN
BASIS OF BEARING: HIGHWAY 550		PROJECT NO: 94537 FILE: 4537

CHENEY-WALTERS-ECHOLS INC.
ENGINEERS ▲ SURVEYORS
909 W. APACHE ▲ FARMINGTON, NEW MEXICO 87401 ▲ (505)327-3303

ATTACHMENT IX

RADIOACTIVE SURVEY

HALLIBURTON ENERGY SERVICES

NUCLEAR PHYSICS LABORATORY

Gamma-ray Analysis

Sample name/date/#: Farmington, N.M. / 8-21-96 / BTG.
Sample form: Soil, taken by: RSO, report to: RSO.
Data start date: 9/24/96, hour: 15:28, Count time: 50,000 s.
Weight: 903 g. X 500 ml M.B. or ___ point source @ SDD: ___ cm.
HPGe γ-ray det. # 2. Group # 1, Tag/file # FARMBTG.

Isotope	MDC[a] (pCi g^{-1})	Meas.[b] (pCi g^{-1})	Remarks
^{40}K	7.0E-2	1.9\1	
^{46}Sc	6.4E-3		
^{110m}Ag	5.4E-3		
^{131}I	4.7E-3		
^{137}Cs	6.1E-3	1.0\-1	
^{192}Ir	4.8E-3		
^{241}Am	1.5E-3		
^{232}Th series			
^{228}Ac	1.9E-2	6.9\-1	
^{228}Th	2.9E-1	1.0	
^{224}Ra	9.4E-2	2.7\-1	
^{212}Pb	9.3E-3	8.6\-1	
^{212}Bi	7.6E-2	8.3\-1	
^{208}Tl	4.9E-3	2.3\-1	
^{238}U series			
^{234}Th	1.1E-1	4.8\-1	
^{234}Pa	1.9E-2		
^{226}Ra	1.2E-1	1.3	
^{214}Pb	1.1E-2	7.4\-1	
^{214}Bi	1.1E-2	7.4\-1	
^{210}Tl	4.5E-3		
^{210}Pb	1.2E-1	4.6\-1	
^{235}U series			
^{235}U	8.6E-3		
^{231}Pa	1.6E-1		
^{227}Th	4.5E-2		
^{223}Fr	1.5E-1		
^{223}Ra	2.9E-2		
^{219}Rn	3.7E-2		
^{211}Pb	1.2E-1		
^{211}Bi	2.9E-2		

Comments: _____

[a] Min. det. conc. above det. bkg. @ 95% c.l. for spec. parameters.
[b] Measured conc. above det. bkg.

R. J. Buchanan 10-14-96

Ron J. Buchanan, Ph.D., CHP
DTC (405) 251-4444

HALLIBURTON ENERGY SERVICES

NUCLEAR PHYSICS LABORATORY

Gamma-ray Analysis

Sample name/date/#: Farmington, NM / 8-21-96 / grab rock.
Sample form: Soil, taken by: RSO, report to: RSO.
Data start date: 9/25/96, hour: 08:16, Count time: 50,000 s.
Weight: 814 g. X 500 ml M.B. or ___ point source @ SDD: ___ cm.
HPGe γ-ray det. # 2. Group # 1, Tag/file # FARMWR.

Isotope	MDC[a] (pCi g^{-1})	Meas.[b] (pCi g^{-1})	Remarks
^{40}K	7.0E-2	1.4\-1	
^{46}Sc	6.4E-3		
^{110m}Ag	5.4E-3		
^{131}I	4.7E-3		
^{137}Cs	6.1E-3	3.1\-2	
^{192}Ir	4.8E-3		
^{241}Am	1.5E-3		
^{232}Th series			
^{228}Ac	1.9E-2	8.2\-1	
^{228}Th	2.9E-1	9.7\-1	
^{224}Ra	9.4E-2	3.2\-1	
^{212}Pb	9.3E-3	1.0	
^{212}Bi	7.6E-2	9.9\-1	
^{208}Tl	4.9E-3	2.8\-1	
^{238}U series			
^{234}Th	1.1E-1	5.7\+1	
^{234}Pa	1.9E-2		
^{226}Ra	1.2E-1	1.3	
^{214}Pb	1.1E-2	7.8\-1	
^{214}Bi	1.1E-2	7.7\-1	
^{210}Tl	4.5E-3		
^{210}Pb	1.2E-1	5.1\-1	
^{235}U series			
^{235}U	8.6E-3		
^{231}Pa	1.6E-1		
^{227}Th	4.5E-2		
^{223}Fr	1.5E-1		
^{223}Ra	2.9E-2		
^{219}Rn	3.7E-2		
^{211}Pb	1.2E-1		
^{211}Bi	2.9E-2		

Comments: _____

[a]Min. det. conc. above det. bkg. @ 95% c.l. for spec. parameters.
[b]Measured conc. above det. bkg.

R. J. Buchanan 10-14-96

Ron J. Buchanan, Ph.D., CHP
DTC (405) 251-4444

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

January 20, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-357-869-911

Mr. Mike Cornforth
Sr. Environmental Specialist
Halliburton Energy Services
P. O. Drawer 1431
Duncan, Oklahoma 73536-0108

RE: FARMINGTON HALLIBURTON FACILITY, GW-099, SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Cornforth:

Enclosed are copies of the Discharge Plan Application forms for Service Companies, etc. Also enclosed is a copy of the Guidelines for Preparation of Discharge Plans for your information.

Based upon your letter, dated January 15, 1998, a Public Notice has been prepared for publication. Your immediate attention to this matter is required. If you have any questions please contact me at (505) 827-7156.

Sincerely,

W. Jack Ford, C.P.G.
Geologist
Environment Bureau
Oil Conservation Division

Z 357 869 911

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

Sent to Mike Cornforth	
Street & Number Halliburton	
Post Office, State, & ZIP Code Duncan, OK	
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

Halliburton Shared Services
P. O Box 1431
Duncan, OK 73536

facsimile transmittal

To: JACK FORD Fax:

From: Mike Cornforth Date: 1/15/98

Re: GW-99 appl. Pages: 2

CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Notes:

JACK,

If this is not adequate please call and I will correct. Thanks for your help & patience

Mike Cornforth
405-251-4197

HALLIBURTON

HALLIBURTON ENERGY SERVICES

Post Office Drawer 1431 / Duncan, Oklahoma 73536-0108 / Tel: 405-251-4197 / Fax: 405-251-3969

January 15, 1998

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Attn: Jack Ford

Re: GW-99 Discharge Plan
Farmington Service Facility
San Juan County, New Mexico

Dear Mr. Ford,

By way of this letter I am requesting that the GW-99 Discharge Plan for the Halliburton Energy Services Facility, located at 4109 E. Main, Farmington, NM, be renewed. We will continue to operate under the original discharge plan criteria until the permit is renewed.

For more information, please feel free to contact me at the letterhead number.

Sincerely,

Mike Cornforth
Sr. Environmental Specialist

cc: Jim Haney, Shared Services Coordinator
Tom Allen, Environmental Coordinator
Arti Vir, Environmental Support, Houston

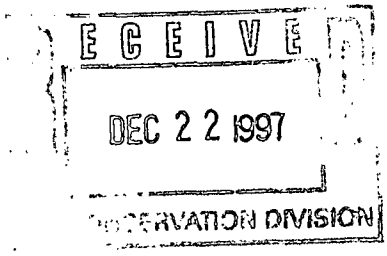
Halliburton

Health, Safety and Environmental

4100 Clinton (77020-6299) / Post Office Box 3 / Houston, TX 77001-0003

December 17, 1997

Mr. Roger C. Anderson
Environmental Bureau Chief
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



RE: Discharge Plan GW-099
Halliburton Services
Farmington facility
San Juan County, New Mexico

Dear Mr. Anderson:

The groundwater discharge plan for the Farmington Facility is due for renewal at the end of this month. The required documents along with the renewal application are being compiled at this time. However, we request a 30 day extension to January 30, 1998, in order to ensure that all information provided to the Oil Conservation Division is complete.

Sincerely,

HALLIBURTON ENERGY SERVICES

Arti Vir
Environmental Specialist

Please send to:
Halliburton Co.
PO Drawer 1431
Duncan, OK
73536-
0108
580-251-4197

O:\FEC\HES\AAGENERAL\G1015

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

June 11, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-601

Mr. Jim Haney
Halliburton Services
P.O. Box 960
Farmington, NM 87499

RE: Discharge Plan GW-099
Halliburton Services
Farmington facility
San Juan County, New Mexico

Dear Mr. Haney:

On December 30, 1992, the groundwater discharge plan, GW-099, for the **Farmington Facility** located in the NW/4 NE/4, Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was renewed for a period of five years. **The approval will expire on December 30, 1997.**

If the facility continues to have potential or actual effluent or leachate discharges and Halliburton Serices wishes to continue operation, the discharge plan must be renewed. **Pursuant to WQCC Section 3106.F, if an application for renewal is submitted at least 120 days before the discharge plan expires (on or before August 30, 1997), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Halliburton Services has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the **Farmington Facility** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of $50 and a flat fee of $690 for service companies. The $50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

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

Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** A copy of the WQCC regulations, discharge plan application form, and guidelines are enclosed. (If you require additional copies of these items notify the OCD at (505)-827-7152. A complete copy of the regulations is also available on OCD's website at **www.emnrd.state.nm.us/ocd.htm**.)

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

Sincerely,

PWS for Roger C. Anderson.

Roger C. Anderson
Environmental Bureau Chief

RCA/pws

c: OCD Aztec District

P 326 936 601

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

Sent to Halliburton - Farmington	
Street & Number GW-099	
Post Office, State, & ZIP Code 6 Mo Rpt, Mailed.	
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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
..., NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division

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

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

<DISCHARGE PLAN COPY>

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wash Bay Sump
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main. Farmington, N.M.

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Continuation of Wash bay Solids
TCLP Attached & REAFFIRMATION statement

RECEIVED
JAN - 8 1997
Environmental Bureau
Oil Conservation Division

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 1-6-97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/6/97

APPROVED BY: Patricia W. Sanchez TITLE: Petroleum Engineer DATE: 1-9-97

State of New Mexico
ENVIRONMENT DEPARTMENT
Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-0187

GARY E. JOHNSON
GOVERNOR

MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

Certified Mail - Return Receipt Requested

November 13, 1996

Mr. Jim Haney
Haliburton Services
4109 East Main
Farmington, New Mexico 87401

RE: Compliance Evaluation Inspection, Haliburton Services, NPDES Permit #NMR00A285, October 4, 1996

Dear Mr. Haney:

Enclosed, please find a copy of the report for the referenced inspection that I conducted at your facility. This inspection report will be sent to the U.S. Environmental Protection Agency (USEPA) in Dallas, for their review. These inspections are used to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permit issued in accordance with the federal Clean Water Act.

Problems noted during this inspection are discussed in the Further Explanations section of the inspection report. You are encouraged to review the inspection report, correct any problems noted during the inspection, and to modify your operational and/or administrative procedures, as appropriate. Further, you are encouraged to notify in writing, both USEPA and NMED regarding modifications and compliance schedules.

My thanks to Mr. Clyde Lasster of your staff for his help and cooperation during this inspection. If you have any questions, please feel free to contact me at the above address or by telephone at (505) 827-2798.

Sincerely,

Richard E. Powell
Surface Water Quality Bureau

xc: USEPA, Dallas (2 copies)
Taylor Sharpe, USEPA (6EN-WT)
NMED, District I, Albuquerque
NMED, Farmington Field Office
Roger Anderson, NMOCD

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

NPDES Compliance Inspection Report

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

1	2	3	11	12	17	18	19	20
Transaction Code	NPDES		yr/mo/day			Inspec. Type	Inspector	Fac Type
N	5	NMR00A285		961004		C	S	2

Remarks: WELL SERVICE SIC1389

67	69	70	71	72	73	74	75	80
Reserved		Facility Evaluation Rating	BI	QA	Reserved			
		3	N	N				

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Haliburton Services - east side of Farmington on southside of Main Street (US Hwy 550 - Aztec Hwy)	7:50 [X] AM [ ] PM	9-9-92
	Exit Time/Date: 0935 hrs. 10-4-96	Permit Expiration Date: 9-9-97

Name(s) of On-Site Representative(s)	Title(s)	Phone No(s)
Clyde Lasster*	Service Supervisor	505-324-3100

Name, Address of Responsible Official	Title	
Jim Haney Halliburton Services 4109 East Main Farmington, NM 87401	Phone No. 505-324-3504	Contacted [*] Yes [ ] No

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	N	Flow Measurement	N	Pretreatment	M	Operation and Maintenance
U	Records/Reports	N	Laboratory	N	Compliance Schedule	N	Sludge Disposal
M	Facility Site Review	M	Effluent/Receiving Waters	U	Self-Monitoring Program	N	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

1. Permittee has coverage under the NPDES baseline general storm water permit and has a Storm Water Pollution Prevention Plan (SWPPP)
2. The description of potential pollutant sources in the SWPPP and on the site map is incomplete.
3. In general, the permittee does not address storm water pollution controls in the SWPPP.
4. The permittee has not conducted the required annual site compliance evaluation.

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone	Date
Richard E. Powell	NMED/SWQB - 505-827-2798	11-15-96
Signature Of Reviewer	Agency/Office	Date

Regulatory Office Use Only

Action Taken	Date	Compliance Status
		[ ] Noncompliance [ ] Compliance

EPA Form 3560-3 (Rev. 3-85) Previous editions are obsolete.

Storm Water Industrial General Permit
Pollution Prevention Plan

CHECKLIST

Haliburton Services	DATE: 10-4-96	PERMIT NO: NMR00A285

POLLUTION PREVENTION TEAM

MEETS PERMIT REQUIREMENTS. S☒ M☐ U☐ N/A☐ (FURTHER EXPLANATION ATTACHED no)
DETAILS:

1. IDENTIFY SPECIFIC INDIVIDUALS. Y☒ N☐ N/A☐

2. OUTLINE INDIVIDUALS RESPONSIBILITIES. Y☒ N☐ N/A☐

DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

MEETS PERMIT REQUIREMENTS. S☐ M☒ U☐ N/A☐ (FURTHER EXPLANATION ATTACHED yes)
DETAILS:

1. SITE MAP INDICATING. S☐ M☒ U☐ N/A☐

a) DRAINAGE AREAS Y☐ N☒ N/A☐

b) DRAINAGE PATTERNS AND OUTFALLS Y☐ N☒ N/A☐

c) STRUCTURAL AND NON-STRUCTURAL CONTROLS have no outside controls Y☐ N☐ N/A☒

d) SURFACE WATERS on separate topographic map Y☒ N☐ N/A☐

e) SIGNIFICANT MATERIALS EXPOSED TO PRECIPITATION Y☒ N☐ N/A☐

f) LOCATION OF LEAKS/SPILLS WHICH HAVE OCCURED IN THE LAST 3 YEARS Y☐ N☐ N/A☒

g) LOCATION OF INDUSTRIAL ACTIVITIES EXPOSED TO PRECIPITATION Not all Y☐ N☒ N/A☐

FUELING STATIONS need to remove from map-no longer on-site Y☐ N☐ N/A☒

MAINTENANCE OR CLEANING AREAS all inside of staging area Y☒ N☐ N/A☐

LOADING/UNLOADING AREAS Y☒ N☐ N/A☐

WASTE TREATMENT,STORAGE OR DISPOSAL AREAS inside Y☐ N☒ N/A☐

LIQUID STORAGE TANKS HAL tanks not marked Y☐ N☒ N/A☐

PROCESSING AREAS Y☐ N☐ N/A☒

STORAGE AREAS Y☒ N☐ N/A☐

2. LIST OF POLLUTANTS LIKELY TO BE PRESENT IN DISCHARGES. list materials but not spec. pollutants S☐ M☒ U☐ N/A☐

3. DESCRIPTION OF SIGNIFICANT MATERIALS HANDLED, TREATED, STORED OR DISPOSED OF SUCH THAT EXPOSURE TO STORM WATER OCCURED IN THE LAST 3 YEARS. period of exp. & quantity not listed S☐ M☒ U☐ N/A☐

a) DESCRIPTION OF THE METHOD AND LOCATION OF STORAGE OR DISPOSAL Y☒ N☐ N/A☐

b) DESCRIPTION OF ALL MATERIAL MANAGEMENT PRACTICES Y☒ N☐ N/A☐

c) DESCRIPTION AND LOCATION OF EXISTING STRUCTURAL AND NON-STRUCTURAL CONTROLS Y☒ N☐ N/A☐

4. SUMMARY OF EXISTING STORM WATER SAMPLING DATA S☐ M☐ U☐ N/A☒

5. DESCRIPTION OF AREAS WITH A HIGH POTENTIAL FOR SIGNIFICANT SOIL EROSION S☐ M☐ U☐ N/A☒

6. A NARRATIVE SUMMARIZING POTENTIAL POLLUTANT SOURCES liquid nitrogen tankers, maintenance yard not described S☐ M☒ U☐ N/A☐

Storm Water Industrial General Permit
Pollution Prevention Plan

CHECKLIST

Haliburton Services	DATE: 10-4-96	PERMIT NO. NMR00A285

DESCRIPTION OF APPROPRIATE MEASURES AND CONTROLS

MEETS PERMIT REQUIREMENTS. S☐ M☐ U☒ N/A☐ (*FURTHER EXPLANATION ATTACHED* Yes)
DETAILS:

1. GOOD HOUSEKEEPING PROCEDURES.	S☐ M☐ U☒ N/A☐
2. PREVENTIVE MAINTENANCE PROCEDURES.	S☐ M☐ U☒ N/A☐
3. SPILL PREVENTION AND RESPONSE PROCEDURES.	S☒ M☐ U☐ N/A☐
4. INSPECTION PROCEDURES. none conducted	S☐ M☐ U☒ N/A☐
5. EMPLOYEE TRAINING PROGRAM. none conducted	S☐ M☐ U☒ N/A☐
6. RECORDKEEPING AND INTERNAL REPORTING PROCEDURES	S☐ M☐ U☒ N/A☐
7. NON-STORM WATER DISCHARGE CERTIFICATION.	S☐ M☐ U☒ N/A☐
a) IDENTIFY AUTHORIZED NON-STORM WATER DISCHARGES AND APPROPRIATE CONTROLS	Y☐ N☐ N/A☒
8. EROSION AND SEDIMENT CONTROLS FOR AREAS WITH HIGH EROSION POTENTIAL.	S☐ M☐ U☐ N/A☒
9. A NARRATIVE CONSIDERATION OF TRADITIONAL STORM WATER MANAGEMENT PRACTICES.	S☐ M☐ U☒ N/A☐
10. PLANS FOR IMPLEMENTATION AND MAINTENANCE OF TRADITIONAL MEASURES APPROPRIATE.	S☐ M☐ U☒ N/A☐

ANNUAL SITE COMPLIANCE EVALUATION REPORTS

MEETS PERMIT REQUIREMENTS. S☐ M☐ U☒ N/A☐ (*FURTHER EXPLANATION ATTACHED* Yes)
DETAILS None done

1. SUMMARY OF THE SCOPE OF THE INSPECTION.	S☐ M☐ U☐ N/A☐
2. PERSONNEL MAKING THE INSPECTION.	S☐ M☐ U☐ N/A☐
3. MAJOR OBSERVATIONS.	S☐ M☐ U☐ N/A☐
4. ACTIONS TAKEN TO REVISE THE POLLUTION PREVENTION PLAN.	S☐ M☐ U☐ N/A☐
5. CERTIFICATION OF COMPLIANCE OR A LIST OF INCIDENTS OF NON-COMPLIANCE.	S☐ M☐ U☐ N/A☐

COMPLIANCE WITH MUNICIPAL STORM WATER MANAGEMENT REQUIREMENTS

MEETS PERMIT REQUIREMENTS. S☐ M☐ U☐ N/A☒ (*FURTHER EXPLANATION ATTACHED*____)
DETAILS:

CONSISTENCY OF POLLUTION PREVENTION PLAN WITH OTHER PLANS

MEETS PERMIT REQUIREMENTS. S☒ M☐ U☐ N/A☐ (*FURTHER EXPLANATION ATTACHED*____)
DETAILS: SPCC

SALT STORAGE PILES ONSITE COVERED OR ENCLOSED

MEETS PERMIT REQUIREMENTS. S☐ M☐ U☐ N/A☒ (*FURTHER EXPLANATION ATTACHED*____)
DETAILS:

NPDES Compliance Inspection
Haliburton Services, NMR00A285

Further Explanations

Introduction

On October 4, 1996, a Compliance Evaluation Inspection was conducted at Haliburton Services, well servicing company (Standard Industrial Classification 1389) located at Farmington, New Mexico by Richard E. Powell of the State of New Mexico Environment Department (NMED). The purpose of this inspection was to evaluate the permittee's compliance with the NPDES baseline general storm water permit for industrial activities and storm water regulations at **40 Code of Federal Regulations Part 122.26.**

Haliburton Services was granted permit coverage under the NPDES baseline general storm water permit and is assigned permit #NMR00A285. Storm water runoff from this site discharges to the San Juan River in Segment 2401 of the San Juan Basin. This report is based on review of files maintained by the permittee, on-site observation by NMED personnel, and verbal information provided by the permittee's representative, Mr. Clyde Lasster, Service Supervisor.

An entrance interview was conducted with Mr. Lasster, at approximately 0815 hours on October 4, 1996. The inspector made introductions, presented his credentials and discussed the purpose of the inspection.

Storm Water Pollution Prevention Plan (SWPPP)

Description of Potential Pollutant Sources: Overall rating of "Marginal"

Part IV.D.2 of the permit states, in part, "Each plan shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or which may result in the discharge of pollutants during any dry weather from separate storm sewers draining the facility. Each plan shall identify all activities and significant materials which may potentially be significant pollutant sources."

The permittee has prepared a site map as required by the general permit but has not indicated drainage areas and patterns, outfall locations, locations of all industrial activities and materials exposed to precipitation such as a maintenance staging and parking area where liquid nitrogen tank trucks and other mobile equipment are parked, and a liquid storage tank (HAL tank). In addition, while the SWPPP describes some of the potential pollutant sources at this site, the above liquid nitrogen tankers and maintenance/storage area are not described, nor does the permittee describe the pollutants potentially present in storm water discharges.

Description of Appropriate Measures and Controls: Overall rating of "Unsatisfactory"

Part IV.D.3 of the permit states, In part, "Each facility covered by this permit shall develop a description of storm water management controls appropriate for the facility, and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility."

Measures and controls to be described and implemented by the permittee include such things as good housekeeping, preventive maintenance, periodic inspections, employee training, record keeping, non-storm water evaluations and certifications, sediment and erosion control, as well as implementation/maintenance of traditional storm water management practices, where appropriate.

Although the permittee obviously conducts preventive maintenance and has established good housekeeping procedures, these practices are not addressed or recorded in the SWPPP. Also, the permittee has not described or implemented storm water management controls for some areas at this site, including the above mentioned maintenance parking and equipment storage area.

In addition, the permittee either does not conduct employee storm water management training or does not record this training, does not conduct periodic inspections or does not record these inspections, their scheduled frequency, personnel conducting the inspection, dates of the inspection, results of the inspection, actions taken to correct problems encountered during the inspection, etc., in the SWPPP. The permittee also has not done the required non-storm water certification and does not discuss implementation/maintenance of traditional storm water management practices.

Annual Site Compliance Evaluation Reports: Overall rating of "Unsatisfactory"

Part IV.D.4 of the permit states, in part, "Qualified personnel shall conduct site compliance evaluations at appropriate intervals specified in the plan, but, except as provided in paragraph IV.D.4.d (below), in no case less than once a year."

According to the permittee's representative, no annual site compliance evaluations have been conducted at this facility.

An exit interview to discuss the findings of this inspection was conducted at approximately 0925 hours on October 4, 1996 with Mr. Lasster, at the site.

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 2-9-95,

or cash received on ______________ in the amount of $ 1380.00

from HALLIBURTON ENERGY SERVICES

for GW-99 FARMINGTON SERVICES FACILITY

(Facility Name) (DP No.)

Submitted by: ______________________ Date: __________

Submitted to ASD by: CHRIS EUSTICE Date: 2-23-95

Received in ASD by: Carlos L. [signature] Date: 2-23-95

Filing Fee ____ New Facility ✓ Renewal ____

Modification ____ Other ______________________ (specify)

Organization Code ______________ Applicable FY ________

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ____

VOID AFTER 60 DA[redacted]

62-20 / 311

HALLIBURTON

HALLIBURTON ENERGY SERVICES

Bank of Delaware

VENDOR NO.	DATE	AMOUNT
36081	02 09 95	$******1380.00

NMED-WATER QUALITY MANAGEMENT
P O BOX 2088
SANTA FE NM 87504-2088

[signatures]

[redacted]

State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505

New Mexico DRUG FREE It's a State of Mind!

January 19, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. P-176-012-093

Mr. Harry Massenheimer
Halliburton Company
1015 Bois D'Arc
P.O. Drawer 1431
Duncan, Oklahoma 73536-0100

Re: Discharge Plan (GW-99)
Halliburton Farmington Facility
San Juan County, New Mexico

Dear Mr. Massenheimer:

A review of the file for discharge plan GW-99 for the Haliburton Farmington Service Facility located in the NW/4 NE/4, Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico has revealed the payment for the December 30, 1992 discharge plan flat fee has not been submitted to the Oil Conservation Division (OCD). These fees were due upon receiving the letter approving the discharge plan.

In order to be in compliance with Water Quality Control Commission (WQCC) Regulation 3-114 B.6, please remit the flat fee in full to the OCD immediately. The balance on the flat fee for the above referenced facility is one thousand three hundred eighty dollars ($1380.00). The check should be made payable to: NMED-WATER QUALITY MANAGEMENT and addressed to the OCD Santa Fe office.

If there are any questions on this matter, please contact me (505) 827-7153.

Sincerely,

Chris Eustice
Geologist

cc: OCD-Aztec Office

VILLAGRA BUILDING - 408 Galisteo
Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830
Park and Recreation Division
P.O. Box 1147 87504-1147
827-7465

2040 South Pacheco
Office of the Secretary
827-5950
Administrative Services
827-5925
Energy Conservation & Management
827-5900
Mining and Minerals
827-5970
Oil Conservation
827-7131

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Resource Mgmt.	Project #:	92118
Sample ID:	20 Barrel Comp	Date Reported:	03-18-94
Laboratory Number:	7059	Date Sampled:	03-15-94
Sample Matrix:	Soil	Date Received:	03-16-94
Preservative:	Cool	Date Extracted:	03-16-94
Condition:	Cool & Intact	Date Analyzed:	03-17-94
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.005	0.7
2-Butanone	ND	0.005	200
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromochloromethane	96 %
Bromofluorobenzene	96 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8010, Halogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments: 1125 Hwy 550, Aztec

Analyst

Review

ENVIROTECH LABS
5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8040
PHENOLS

Client:	HRM	Project #:	92118
Sample ID:	20 bbl composite	Date Reported:	04-04-94
Laboratory Number:	7059	Date Sampled:	03-15-94
Sample Matrix:	Soil	Date Received:	03-16-94
Preservative:	Cool	Date Extracted:	03-16-94
Condition:	Cool & Intact	Date Analyzed:	04-03-94
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.040	2.0
2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	0.39	0.025	100.0

SURROGATE RECOVERY	Parameter	Percent Recovery
	2-fluorophenol	114 %
	2,4,6-tribromophenol	106 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1992

ND - Parameter not detected at the stated detection limit.

Comments: 1125 Hwy 550, Aztec
Sample from compressor oil waste stream

Analyst

Review

ENVIROTECH LABS
5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8090
NITROAROMATICS AND CYCLIC KETONES

Client:	HRM	Project #:	92113
Sample ID:	20 bbl composite	Date Reported:	04-03-94
Laboratory Number:	7059	Date Sampled:	03-15-94
Sample Matrix:	Sand	Date Received:	03-16-94
Preservative:	Cool	Date Extracted:	03-16-94
Condition:	Cool & Intact	Date Analyzed:	04-02-94
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.022	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

Method: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: 1125 Hwy 550 Aztec
Sample from compressor oil waste stream

Tony Tristan
Analyst

Review

ENVIROTECH LABS
5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton Resource Mgmt.	Project #:	92118
Sample ID:	20 Barrel Comp.	Date Reported:	03-18-94
Laboratory Number:	7059	Date Sampled:	03-15-94
Sample Matrix:	Soil	Date Received:	03-16-94
Preservative:	Cool	Date Analyzed:	03-17-94
Condition:	Cool & Intact	Date Extracted:	03-16-94
		Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	0.003	0.001	5.000
BARIUM	1.3	0.1	100.0
CADMIUM	0.030	0.001	1.000
CHROMIUM	ND	0.001	5.000
LEAD	0.042	0.001	5.000
MERCURY	ND	0.002	0.200
SELENIUM	0.008	0.001	1.000
SILVER	ND	0.01	5.00

Method: Methods 3010A, 3020A, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure SW-846, USEPA, July 1992.

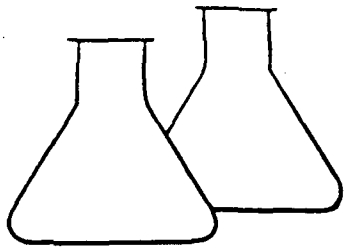
Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments: 1125 Hwy 550, Aztec

Analyst

Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

RCRA CHARACTERISTICS

Client:	Halliburton Resources Mgmt.	Project #:	92118
Sample ID:	20 Barrel Composite	Date Reported:	03-16-94
Lab ID#:	7059	Date Sampled:	03-15-94
Sample Matrix:	Soil	Date Received:	03-16-94
Preservative:	Cool	Date Analyzed:	03-16-94
Condition:	Cool & Intact		

IGNITABILITY: Did not ignite upon direct contact with flame after heating to 60°c.

CORROSIVITY: pH of 8.19

REACTIVITY: Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: ≤ pH 2 or ≥ pH 12.5 is hazardous waste.

1125 Hwy 550, Aztec

Analyst

Reviewed

Halliburton File

Green dye spilled in Farmington Lake

ROGER BURR
STAFF WRITER

A green substance in the waters of Farmington Lake was found to be a harmless dye, but not until after worried officials spent more than seven hours on the shores of the city reservoir.

Fire Marshal Tom Aurnhammer said the dye was discovered by a citizen about 5 p.m. Thursday. A sewage treatment plant chemist identified the substance about 10 p.m., but a Fire Department hazardous materials team wasn't back in its station until after midnight.

The dye was traced to a Halliburton Services Co. truck, and Halliburton cleaned up the spill Friday morning.

"It's something you don't want to take a chance with," Aurnhammer said, noting that Farmington Lake is the city's water supply.

"Luckily for us and the responsible people, it turned out to be nontoxic."

Aurnhammer said a container of the dye, used to check for leaks, had fallen from a Halliburton truck that had become stuck in the sand.

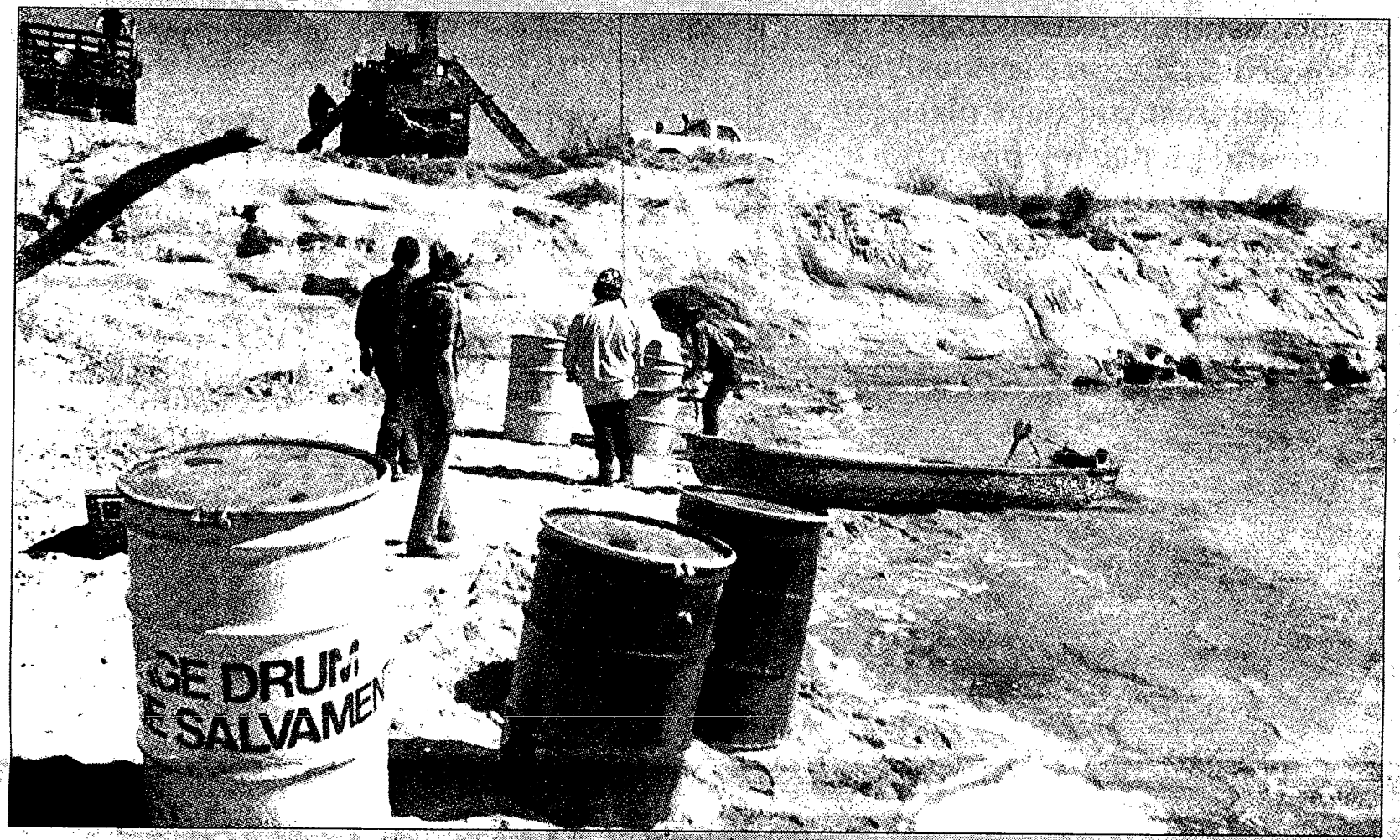
A second truck was freeing the first when the dye spilled onto the ground, and eventually ran into the lake, Aurnhammer said.

Someone had seen the Halliburton trucks earlier in the day, and the company agreed the dye is a kind it uses, Aurnhammer said.

A Halliburton crew shoveled the dye from the lake shore and vacuumed it from the water and into barrels Friday morning. A crane hoisted the barrels to a truck for disposal.

Roger Anderson

Lake cleanup



Roger Burr/The Daily Times

A Halliburton Services Co. crew works Friday to remove barrels of a harmless dye that spilled into Farmington Lake. Story, Page A10.

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Ecological Services
Suite D, 3530 Pan American Highway, NE
Albuquerque, New Mexico 87107

November 30, 1992

Cons. #2-22-93-I-045

Director
Oil Conservation Division
State Land Office Building
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Sir:

This responds to your letter dated November 4, 1992, requesting a review of discharge plan GW-9[0] by the U.S. Fish and Wildlife Service (Service). Halliburton Services has submitted the plan for their Farmington Service Facility (FSF), located in the NW/4 NE/4, Section 1, T29N, R13W, San Juan County, New Mexico. The plan calls for the discharge of approximately 2,200 gallons per day of waste water collected from a truck washrack and floorsump, into the City of Farmington's Sewage Treatment System (POTW).

The Service has concerns over the nature of the effluent, and the proximity of the FSF to the Animas and San Juan Rivers. To prevent, and mitigate for, accidental spills, leaks and other discharges, the Service offers the following comments for consideration.

1. Fuels, lubricants, and other petrochemicals and solvents should not be discharged in the river or near it's banks. Every effort should be made to prevent any discharge from entering the Animas or the San Juan Rivers.

2. The downgradient face of the FSF should be bermed to a height of 16 inches to prevent hydrocarbon contaminated runoff from entering the Animas River. The Service recommends a clay and caliche mixture for construction of the berm. This material is relatively inexpensive, and an excellent barrier to water runoff.

3. The berm should be constructed and compacted in such a fashion that it's integrity will remain intact, and it should be inspected on a regular basis to insure there is no overflow.

4. Associated hydrocarbon contaminated soils at the site should not be present near the berm, or on any gradient that could lead to the Animas River. If necessary, an upland aeration site should be considered for the treatment of hydrocarbon contaminated soils. Any such site would also need to be bermed to prevent contact with any runoff water that would migrate downgradient.

5. A treatment system for the effluent prior to it's discharge into the POTW should be incorporated into the discharge plan. This treatment should consist of a gravity oil-water separator. The inclusion of such a device in the discharge plan will help ensure that no hydrocarbon-contaminated materials migrate off site.

6. The effluent should be monitored prior to discharge into the POTW. Optimally, the discharge will be free of heavy metal and hydrocarbon contaminants.

7. If, after monitoring the discharge, it is found that hydrocarbons are still present, then a secondary treatment system may be necessary. An activated carbon filter system would enhance the removal of hydrocarbons from the discharge.

We appreciate the opportunity to review this proposed project, and hope that our comments are considered for inclusion in the discharge plan. If we can be of further assistance, please call Clent Bailey at (505) 883-7877.

Sincerely,

Jennifer Fowler-Propst
Field Supervisor

Enclosure

cc: (wo/enc)
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Director, New Mexico Energy, Minerals and Natural Resources Department,
Forestry and Resources Conservation Division, Santa Fe, New Mexico

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

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, PO Box 2088, Santa Fe, New Mexico 87504-2088, Telephone 505-827-5800:

(GW-97)- Halliburton Services, Harry Messenheimer, P.O. Drawer 960, Farmington, New Mexico 87499, has submitted a discharge plan application for their Farmington Service Facility located in the NW/4 NE/4, Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 2200 gallons per day of waste water is collected in the truck washrack and floor sump and discharged into the City of Farmington Sewage Treatment System (POTW). Ground water most likely to be affected by an accidential discharge is at a depth of approximately 80 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental dicharges to the surface will be amanaged.

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

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

GIVEN under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico on this 4th day of November, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
s/William J. Lemay, Director

Journal: November 20, 1992

STATE OF NEW MEXICO
County of Bernalillo ss

OIL CONSERVATION DIVISION
RECEIVED
'92 NOV 23 AM 10 10

Thomas J. Smithson being duly sworn declares and says that he is National Advertising manager of the **Albuquerque Journal**, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chaper 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for 1 times, the first publication being on the 20 day of November, 1992, and the subsequent consecutive publications on ....., 1992.

Thomas J. Smithson

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 20 day of Nov., 1992.

Bernadette Ortiz

PRICE $22.85

12-18-93

Statement to come at end of month.

KMB

CLA-22-A (R-12/92) ACCOUNT NUMBER C81184

AFFIDAVIT OF PUBLICATION

No. 30310

STATE OF NEW MEXICO,
County of San Juan:

KIT OWENS being duly sworn, says: "That he is the ADVERTISING MANGERR of The Farmington Daily Times, a daily newspaper of general circulation published in English in Farmington , said county and state, and that the hereto attached LEGAL NOTICE

was published in a regular and entire issue of the said Farmington Daily Times, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for ONE consecutive (days) (////) on the same day as follows:

First Publication WEDNESDAY, NOVEMBER 18, 1992

Second Publication

Third Publication

Fourth Publication

and the cost of publication was $ 32.53

Subscribed and sworn to before me this 18th day of NOVEMBER, 1992.

Connie Andrae
Notary Public, San Juan County, New Mexico

My Comm expires: JULY 3, 1993

COPY OF PUBLICATI

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-97)99- Halliburton Services, Harry Messenhimer, P.O. Drawer 960, Farmington, New Mexico 87499, has submitted a discharge plan application for their Farmington Service Facility located in the NW/4 NE/4, Section 1,Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 2200 gallons per day of waste water is collected in the trunk washrack and floor sump and discharged into the City of Farmington Sewage Treatment System (POTW). Ground water most likely to be affected by an accidental discharge is at a depth of approximately 80 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 4th day of November, 1992.

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

SEAL

Legal No 30310 published in the Farmington Daily Times, Farmington, New Mexico on Wednesday, November 18, 1992.

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-~~97~~ 99) - Halliburton Services, Harry Messenheimer, P.O. Drawer 960, Farmington, New Mexico 87499, has submitted a discharge plan application for their Farmington Service Facility located in the NW/4 NE/4, Section 1, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 2200 gallons per day of waste water is collected in the truck washrack and floor sump and discharged into the City of Farmington Sewage Treatment System (POTW). Ground water most likely to be affected by an accidental discharge is at a depth of approximately 80 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 4th day of November, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

WILLIAM J. LEMAY, Director

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No [redacted] dated 10-9-92,

or cash received on 10/23/92 in the amount of $ 50.00

from Halliburton Company

for Farmington Service Facility (Facility Name) GW-99 (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: Kathy Brown Date: 10/23/92

Received in ASD by: Sherry Gonzales Date: 10/23/92

Filing Fee X New Facility ___ Renewal ___

Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

Halliburton Company
ENERGY SERVICES GROUP

Citibank Delaware
NE PENN'S WAY
EW CASTLE, DE
9720

VOID AFTER 60 DAYS

[redacted] 62-20/311

VENDOR NO.	DATE	AMOUNT
N1005801	10-09-92	$50.00

EXACTLY $50 DOLLARS .00 CENTS

PAY TO THE ORDER OF

NMED WATER QUALITY MANAGEMENT
STATE OF NM QUALITY CONTROL
P O BOX 2088 STATE LAND OFFICE BLDG
SANTA FE NM 87504

A A Baker
Jimmy E. Cooper

[redacted]

Halliburton Company
ENERGY SERVICES GROUP
DUNCAN, OKLAHOMA 73536

CHECK DATE: [redacted]

INVOICE DATE	INVOICE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
	DISCHARGE PLAN APPLICATION FEE FOR FARMINGTON, NM	$50.00		
	GW-99			

THE ATTACHED CHECK IS IN FULL PAYMENT OF ACCOUNT AS SHOWN ABOVE. NO RECEIPT OTHER THAN ENDORSEMENT IS NECESSARY. IF NOT CORRECT RETURN BOTH STATEMENT AND CHECK.

Halliburton Company
ENERGY SERVICES GROUP

REGULATORY AFFAIRS DEPARTMENT

Writer's Direct Dial Number: (405) 251-3042

July 16, 1992

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
Attention: Director
P.O. Box 2088
Santa Fe, NM 87504-2088

Dear Sir,

It has recently come to my attention that the Discharge Plan Application for Oilfield Service Facilities sent to our Farmington, New Mexico site is past due. Halliburton Company, including the Halliburton Services Division, is continuing to be restructured and personnel reassigned. I have been recently assigned this work that was previously handled by Matt Ratliff.

Due to the large quantity of material requested in the application and the restructuring taking place within our organization, I am requesting an extension of the deadline until October 1st.

Thank you for you patience in this matter. If you have any questions or need additional information, please contact me at the letterhead number.

Sincerely,

HARRY MESSENHEIMER
Environmental Engineer

HHM/cl

cc: David King
Hugh Hanson

Farmington/STofNM.dsk1

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

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

February 21, 1992

CERTIFIED MAIL
RETURN RECEIPT NO. P-327-278-292

Mr. David S. King, District Manager
Halliburton Services
P.O. Drawer 960
Farmington, New Mexico 87499

RE: DISCHARGE PLAN REQUIREMENT
FARMINGTON SERVICE FACILITY
SAN JUAN COUNTY, NEW MEXICO

Dear Mr. King:

Under the provisions of the New Mexico Water Quality Control Commission (WQCC) Regulations, you are hereby notified that the filing of a discharge plan is required for your existing Farmington Service Facility located at 4109 East Main, Farmington, San Juan County, New Mexico.

This notification of discharge plan requirement is pursuant to Part 3-104 and Part 3-106 of the WQCC Regulations. The discharge plan, defined in Part 1.101.P. of the WQCC Regulations, should cover all discharges of effluent or leachate at the facility or adjacent to the facility site. Included in the application should be plans for controlling spills and accidental discharges at the facility (including detection of leaks in below grade sumps, buried underground process tanks and/or piping), and closure plans for any pits or ponds whose use will be discontinued.

A copy of the regulations is enclosed for your convenience. Also enclosed is an application and a copy of OCD Guidelines for the Preparation of Discharge Plans at Oil Field Service Facilities. Three copies of your discharge plan should be submitted for review purposes.

Section 3-106.A. of the regulations requires submittal of the discharge plan application within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Part 3-106.A. also allows discharges to

continue without an approved discharge plan until 240 days after written notification by the Director of the OCD that a discharge plan is required. An extension of this time may be sought and approved for good cause.

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund". WQCC Rule 3-114 became effective as of August 18, 1991, and is found on page 33.1 of the enclosed WQCC Rules and Regulations.

Every billable facility submitting a new discharge plan will be assessed a fee equal to the filing fee plus either a flat fee or discharge fee. The filing fee is fifty (50) dollars and shall be submitted with the discharge plan application (nonrefundable). The remainder of the "total fee" for oil and gas service companies falls under the "flat fee" category and is equal to one-thousand, three-hundred and eighty dollars ($1380). The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval. Please make all checks out to the **NMED - Water Quality Management.**

If there are any questions on this matter, please feel free to contact Roger Anderson at (505) 827-5812 or Kathy Brown at (505) 827-5884 as they have the assigned responsibility for review of all discharge plans.

Sincerely,

William J. LeMay
Director

WJL/rca

xc: Denny Foust - OCD Aztec Office

WELL SERVICE COMPANY INSPECTION

NAME OF COMPANY: Halliburton - Larry Willinger

LOCATION: 4109 E. Main, Farmington

INSPECTION DATE: 8 / 5 / 85

REPORT: Under ground storage tanks; a) 6,000 gal. gasoline; b) 6,000 gal. diesel. All cement lot-everywhere. Above ground tanks; a) 2 acid-some drip into sand by valves; b) 3 nitrogen; c) cement storage, d)self-contained solvent bath; e) slop oil. Pump packing room has 25'x 2 1/2' used oil pit pumped out and bought by Mesa Oil (Albq.) and Radium Petroleum (K.C., Missouri). Separator pit: 3 concrete lined pits 10'sq. separates oil from water sent to city sewer. Oil goes to slop oil tank. Dry chemicals stored in warehouse; if sack breaks, replace if possible, sweep up excess and put in dumpster.

RECOMMENDATIONS: Neutralize sand by acid tank valve. Very clean operation; no major problems.

FOLLOW UP:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

50 YEARS
1935 - 1985

TONEY ANAYA
GOVERNOR

June 4, 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Halliburton Services Co.
4109 E. Main
Farmington, NM 87401

Dear Sir:

In response to recent events, the Oil Conservation Division is conducting a survey of well service companies operating within the State. A response to this survey is required to establish the gravity of potential pollution problems in the field.

Please check the appropriate categories describing operations at your facilities and fill-in blanks with short one or two word answers. A long, detailed description of company activities is not required at this time.

This survey is part of the OCD regulatory duties and responsibilities and it will be used to assess activities statewide. A response to this questionnaire is requested within 30 days; your full cooperation is appreciated in this matter.

If there are any questions or more information is necessary, please call Jami Bailey in Santa Fe at (505) 827-5884.

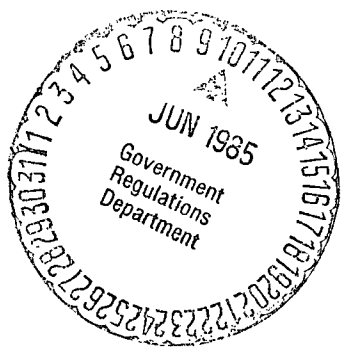
Sincerely,

R. L. STAMETS,
Director

RLS/JB/dp

Enc.

cc: OCD District Office


JUN 1985
Government
Regulations
Department

WELL SERVICE COMPANIES
QUESTIONNAIRE

Check one or more, as applicable.

I. Types of Services Performed:

___ Vacuum Hauling/Tank Cleaning
_X_ Acidizing
_X_ Fracturing
_X_ Cementing
___ Drilling mud/additives
___ Other (Specify)

II. General Types of Products and Quantities Used in Service or Transported in 1984:

		Quantity (bbls.)
_X_	Acids	5200 bbls.
___	Brines	
___	Caustics	
___	Drilling Mud/Additives	
	___ Corrosion Inhibitors	
	___ Surfactants/Polymers	
	___ Shale Control Inhibitors	
___	Radioactive Tracers Returned from Wellbores or Pipelines	
_X_	Oxygen Scavangers	300 bbls.
___	Waste Oil	
___	Produced Water	
___	Other (Specify)	


JUL 1985
Government
Regulations
Department

III. TYPE, QUANTITY, AND LOCATION OF WELL SERVICE FLUIDS AND SOLIDS, PRODUCED WATER, OR WASTE OIL DISPOSAL

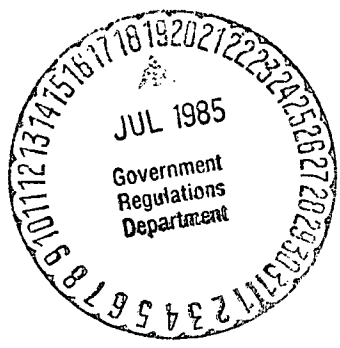
TYPE OF FLUID OR SOLID	VOLUME (BARRELS)	DISPOSAL SITE (NO. FROM BELOW)	LOCATION	NATURE OF DISPOSAL LOCATION (LETTER FROM BELOW)
Cement	Less than 50 bbls.	1	San Juan Basin	B
Fracturing Gells Water Based	Less than 50 bbls.	1	San Juan Basin	B
Fracturing Sand	Less than 500 bbls.	1	San Juan Basin	B
Spent acid	Less than 5 bbls.	1	San Juan Basin	B

Disposal Sites

1. Individual Well Site (Do not list all locations)
2. Sanitary Landfill
3. Injection Wells (Do not list locations)
4. Evaporation Pond
5. Chemical Waste Tank
6. City Sewer
7. Company Facilities
8. Other (Specify)

Nature of Disposal Location

A. Lined Pit
B. Unlined Pit
C. Ground Surface
D. Above Ground Tank
E. Buried Tank
F. Injection Well
G. Other (Specify)


JUL 1985
Government
Regulations
Department