

NM1

-

3

C-138

YEAR(S):

1999

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

NEW MEXICO
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131
RECEIVED
APR 27 1999
Environmental Bureau
Oil Conservation Division

Form C-10
Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Shoreham Pipeline</u>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <u>North Compressor Station</u>
2. Management Facility Destination <u>SUNDANCE SERVICES INC.</u>	6. Transporter <u>Gandy</u>
3. Address of Facility Operator <u>P.O. BOX 1737 Eunice NM 88231</u>	State <u>NEW MEXICO</u>
7. Location of Material (Street Address or ULSTR) <u>Section 7 Township 8 South Range 29 East</u>	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Shoreham Pipeline's North compressor Station. This waste was generated by cleaning up on this compressor site and a pit located on this site. This material was hauled to Gandy Disposal and can not be landfarmed by this facility. The generator now would like to move this material to our facility for disposal. All dirt, filters, and barrels will transported to our facility upon OCD approval. I have included a certificate of waste status and chain of custody on the above mention material. Sundance would like to request approval for accept this material into our Parabo disposal.

Estimated Volume 18 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach
Waste Management Facility Authorized Agent

TITLE: OFFICE MGR

DATE: _____

TYPE OR PRINT NAME: DONNA L. ROACH

TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

DENIED

Shoreham Pipeline Company

April 20, 1999

Ms. Donna Roach
Sundance Services Inc.

Dear Ms. Roach:

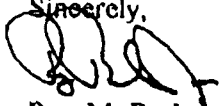
In early March 1999, Shoreham Pipeline Company was ordered to clean a compressor site location and "pit" located at Shoreham's North Compressor Station in Section 7, Township 8 South, Range 29 East of Chaves County, New Mexico by the New Mexico Oil Conservation Commission. To complete this work, Shoreham did the following:

1. Scraped a small amount of dirt from around the compressor for removal and disposal.
2. Spread new dirt around the compressor.
3. Dug the soiled dirt from the bottom of the "pit" for removal and disposal.
4. Removed the "oil and chemical drums" and used compressor filters from the pit for disposal.
5. Filled the pit.

All items removed for disposal were sent to the Gandy Disposal Site located in Chaves County, New Mexico on March 5, 1999. A copy of the Waste Transmittal Sheet for this movement is enclosed. In that the filters and dirt were transported in the same truck, we were told by the Oil Conservation Commission, that we would have to have the dirt sampled to insure that the filters had not contaminated the dirt. This was done with the results being attached with this letter also. This report indicates that we did not contaminate the dirt.

We have now been notified by Mr. Larry Gandy that he can accept and dispose of the dirt, but not the filters and barrels, which need to be sent to your facility. To accomplish such, I have completed and enclosed the Certificate of Waste Status Form you supplied. Hopefully this letter and the enclosed Certificate will supply the data which you need. As to quantity to be transported, please contact Mr. Larry Gandy as I am unsure as to the exact amount, although I do not remember it to be a lot. Thank you for your assistance and attention to this matter. If we may be of further service or provide any additional information, please do not hesitate to call on me.

Sincerely,



Roy M. Brehm, Jr.
Director - Marketing & Pipeline Operations

Enclosures

cc: Mr. Larry Gandy
Mr. Ron Erwin

APR-18-88 MON 10:11

SUNDANCE SERVICES INC

FAX NO. 5053942590

P.02

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

CURRENT LOCATION: GANDY DISPOSAL SITE,
CHAVER COUNTY, NEW MEXICO
ORIGINATING LOCATION: CAME FROM SOURCE DELETED BELOW
SOURCE: SHOREHAM PIPELINE COMPANY'S NORTH COMPRESSOR SITE
LOCATED IN SECTION 7, TOWNSHIP 8 SOUTH RANGE 29 EAST,
CHAVER COUNTY, NEW MEXICO
DISPOSAL LOCATION: SUNDANCE SERVICES INC.

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

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

Name ROY M. BREHM, JR.
Title/Agency DIRECTOR - MARKETING &
PIPELINE OPERATIONS
Address 333 CLAY STREET, SUITE 4010
HOUSTON, TEXAS 77002
Signature 
Date APRIL 20, 1999

16 - 18 yds

04/19 '99 11:08

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

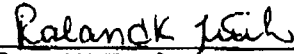
RECEIVING DATE: 03/05/99
SAMPLE TYPE: Soil
PROJECT #: None Given
PROJECT NAME: North Compressor Station
PROJECT LOCATION: None Given

ANALYSIS DATE: 03/05/99
SAMPLING DATE: 03/03/99
SAMPLE CONDITION: Intact

ELT#	FIELD CODE	TPH (mg/kg)
17170	Composite Soil	7475

BLANK	<10
% INSTRUMENT ACCURACY	100
% EXTRACTION ACCURACY	110

Methods: EPA 418.1


Raland K. Tuttle

3-22-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

Receiving Date: 03/05/99
Sample Type: Soil
Project: North Compressor Station
Project Location: None Given

Analysis Date: see below
Sampling Date: 03/03/99
Sample Condition: Intact

TCLP METALS (mg/L)

ELT#	Field Code	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
	EPA LIMIT	5.00	5.00	100.0	1.00	5.00	0.20	5.00	1.00
17170	Composite Soil	0.01	<0.10	<0.50	0.014	<0.03	<0.010	0.14	<0.100
REPORTING LIMIT		0.01	0.10	0.50	0.005	0.03	0.010	0.10	0.100
% IA		100	103	108	102	104	98	105	97
% EA		105	102	98	95	85	100	93	89

METHODS: EPA SW 846-1311, 7760, 7080, 7130, 7190, 7420, SW-846 Revision 3, 6010B, 7470A

Raland K. Tuttle
Raland K. Tuttle

3-22-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

RECEIVING DATE: 03/05/99
SAMPLE TYPE: Soil
PROJECT: North Compressor Station
FIELD CODE: Composite Soil
PROJECT LOCATION: None Given

ANALYSIS DATE: 03/12/99
SAMPLING DATE: 03/03/99
SAMPLE CONDITION: Intact

TCLP VOLATILES (mg/L)	SAMPLE 17170	PQL	BLANK	%EA	%DEV
1,1-Dichloroethene	ND	0.001	ND	99	-2.0
2-Butanone	ND	0.010	ND		-10.4
Chloroform	ND	0.001	ND		1.9
Benzene	ND	0.001	ND	95	1.6
1,2-Dichloroethane	ND	0.001	ND		-3.8
Vinyl Chloride	ND	0.001	ND		4.6
Carbon Tetrachloride	ND	0.001	ND		7.7
Trichloroethene	ND	0.001	ND	95	0.8
Tetrachloroethene	ND	0.001	ND		-1.2
Chlorobenzene	ND	0.001	ND	89	3.8
1,4-Dichlorobenzene	ND	0.001	ND		7.7

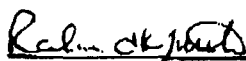
SYSTEM MONITORING COMPOUNDS
dibromofluoromethane
toluene-d8
4-bromofluorobenzene

% RECOVERY
95
96
97

ND = < PQL

PQL = PRACTICAL QUANTITATION LIMIT

Methods: EPA SW 846-8240, 1311


Raland K. Tuttle

3-22-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

Receiving Date: 03/05/99
Sample Type: Soil
Project Name: North Compressor Station
Project Location: None Given
Field Code: Composite Soil

Analysis Date: 03/10/99
Sampling Date: 03/03/99
Sample Condition: Intact

TCLP SEMIVOLATILE ORGANICS (mg/L)	REPORTING LIMIT	ELT# 17170	RPD	%EA	%IA
Pyridine	0.05	ND	1	43	95
1,4-Dichlorobenzene	0.05	ND	4	42	90
o-Cresol	0.05	ND	2	62	109
Nitrobenzene	0.05	ND	1	60	92
m,p -Cresol	0.05	ND	2	54	105
Hexachloroethane	0.05	ND	3	39	96
Hexachlorobutadiene	0.05	ND	3	41	95
2,4,6-Trichlorophenol	0.05	ND	3	75	98
2,4,5-Trichlorophenol	0.05	ND	3	78	100
2,4-Dinitrotoluene	0.05	ND	3	76	110
Hexachlorobenzene	0.05	ND	3	64	94
Pentachlorophenol	0.05	ND	4	72	108
2,4-D	0.05	ND	2	18	105
2,4,5-TP	0.05	ND	9	48	112

ND= NOT DETECTED, < REPORTING LIMIT
SYSTEM MONITORING COMPOUNDS

	% Recovery
2-Fluorophenol	37
Phenol-d6	25
Nitrobenzene-d5	66
2-Fluorobiphenyl	60
2,4,6-Tribromophenol	77
Terphenyl-d14	68

Method: SW 846-8270C.1311

Raland K. Tuttle
Raland K. Tuttle

3-22-99
Date

**ENVIRONMENTAL
LAB OF , INC.**

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

Receiving Date: 03/05/99
Sample Type: Soil
Project Name: North Compressor Station
Project Location: None Given

Analysis Date: see below
Sampling Date: 03/03/99
Sample Condition: Intact

ELT#	Field Code	REACTIVITY H2S CN-	(s.u.)	CORROSIVITY (s.u.)	IGNITABILITY
17170	Composite Soil	NON-REACTIVE (ppm)	NON-CORROSIVE (ppm)	Non Corrosive 9.66	>140 deg. F
	RPD	0	0	0	0
	% PRECISION				
	% INSTRUMENT ACCURACY			100	
	ANALYSIS DATE	3/12/99	3/12/99	3/08/99	3/18/99

METHODS: EPA SW-846-2.1.3,2.1.2,2.1.1

Raland K. Tuttle

3-22-99
Date



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Jennifer A. Salisbury
CABINET SECRETARY

Oil Conservation Div.
Environmental Bureau
2040 S. Pacheco
Santa Fe, NM 87505

Field Inspection Report

Time: 10am-12 noon
Date: March 3, 1999

Re: Site/Location: North White Ranch Compressor St.
Sec 7-Ts 8s-R29e
Chaves County, New Mexico

Subject: Site Inspection

Originating Party: Wayne Price- V. Barton, E. Gonzales, D. Williams- NMOCD

Other Parties: Roy Brehm-Shoreham PL, and Contract Pumper (Bud Halloway)

Findings:

A small gas gathering compressor station with (gas condensate and water) de-hydration and sweetening processes.

Previous inspections by OCD inspectors revealed unlined pits, active discharges, and numerous leaks and spills. Current inspection revealed fresh sand has been spread over these previous leaks and spills, and all pits had been covered.

OCD collected a soil sample just NE of the main compressor where previous leak & spills had been covered with fresh sand. A field test was conducted using a PID to check for volatile organics. The results were 1077 ppm of BTEX which is 10 times the OCD guideline allowable.

The inspection revealed Shoreham had removed RCRA type non-exempt waste (compressor oil filters, empty drums, non-exempt contaminated soil, etc) from an on-site unlined pit and sent this waste to Gandy-Marley landfarm. There was no sampling or testing to determine if this waste was RCRA hazardous.

There were tanks and drums of various chemical treating and lubricating fluids, condensate, etc with no containment. The compressor was leaking used oils onto the ground. There was evidence of a point source discharge from the condensate/water tank in which fluids were being drained off into a graded ditch which leads off-site to a small playa lake located approximately 1/4-1/2 mile north of the facility.

Conclusion/Agreements: OCD instructed Shoreham to call Gandy-Marly Landfarm and have waste isolated for testing. OCD will evaluate site to determine if a Discharge Plan is required and will notify Shoreham of clean-up requirements.

Photos Taken: Yes- Filed O/Envr....Pic Cam album (Shoreham) 3/3/99

CC: OCD Artesia
Martyne Kielling-OCD



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

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

April 23, 1999

CERTIFIED MAIL

RETURN RECEIPT No. Z 559 573 588

Mr. Roy M. Brehm
Shoreham Pipeline Company
333 Clay St. Suite 4010
Houston, Texas 77002

**RE: Discharge Plan Requirement
North White Ranch Compressor St.
Sec 7-Ts 8s-R29e
Chaves County, New Mexico**

Dear Mr. Brehm:

Under the provision of the Water Quality Control Commission (WQCC) Regulations, Shoreham Pipeline Company (SPC) is hereby notified that filing of a discharge plan is required for the SPC North White Ranch Compressor St. facility located in Section 7, Township 8 south, Range 29 east NMPM, Chaves County, New Mexico.

The discharge plan is required pursuant to Section 3-104 and 3-106 of the WQCC regulations. The discharge plan, defined in Section 1.101.Q of the WQCC regulations should cover all discharges of effluent or leachate at the facility site or adjacent to the facility site. Included in the plan should be plans for controlling spills and accidental discharges at the facility, including detection of leaks in buried underground tanks and/or piping.

Pursuant to Section 3-106.A, a discharge plan should be submitted for approval to the OCD Director within 120 days of receipt of this letter. Three copies of the discharge plan should be submitted.

Enclosed are copies of the discharge plan application form and guidelines to aid you in preparing the application. The guideline addresses berming of tanks, curbing and paving of process areas susceptible to leaks or spills and the management of any solid wastes. A complete copy of the WQCC regulations is also available on the New Mexico Environment Department's website at (www.nmenv.state.nm.us/).

Shoreham Z 559 573 588
April 23, 1999
Page 2

The discharge plan is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of fifty (50) dollars plus a flat rate fee dependant upon the size of the Gas Compressor Station as listed in WQCC Regulation 3-114 (Fees.) The fifty (50) dollar filing fee is due when the discharge plan is submitted. The flat rate fee is due upon approval of the discharge plan.

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

If there are any questions on this matter, please feel free to contact Wayne Price of my staff at 505-827-7155.

Sincerely,



Roger Anderson
Environmental Bureau Chief

RCA/lwp

XC: OCD Artesia Office

attachments-2

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

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

RECEIVED
MAY 26 1999
Environmental Bureau
Oil Conservation Division

Form C-130
Originated 8/8/9
Submit Origin:
Plus 1 Cop
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Chevron/Dynegy
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Monument Monitor Wells
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter Unknown
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) North Half of Section 14 Township 26 S Range 36 E	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are for Chevron Monument Wells. This waste is generated by ground water developing in these monitor wells. I have included a certificate of waste status and chain of custody. Sundance would like approval to accept this waste into our Parabo Disposal Facility.

Estimated Volume 100 gallons cy Known Volume (to be entered by the operator at the end of the haul) cy

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 5-10-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 5-13-99
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geology DATE: 5-20-99

CERTIFICATE OF WASTE STATUS**Non-Exempt Waste Material****ORIGINATION LOCATION:** CHEVRON MONUMENT MONITOR WELLS**SOURCE:** 100 GAL. GROUNDWATER**DISPOSAL LOCATION:** PARABO - Sundance

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

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

Name: JAMES R. ALLEN**Title/Agency:** PRESIDENT, SAFETY & ENVIRONMENTAL SOLUTIONS, INC.**Address:** 703 E. CLINTON, SUITE 103**Signature:** James R. Allen**Date:** 5-3-99



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

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 W. CLINTON ST. SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/14/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM

Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL AND INTACT
Sample Received By: GP
Analyzed By: AH/GP

TOTAL METALS

LAB NUMBER	SAMPLE ID	Cu (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)
ANALYSIS DATE:		04/14/99	04/14/99	04/14/99	04/14/99
H4097-1	MW-1	<1	<1	<0.2	<1
H4097-2	MW-2	<1	<1	0.225	<1
H4097-3	MW-3	<1	<1	<0.2	<1
H4097-4	MW-4	<1	<1	0.475	<1
H4097-5	MW-5	<1	<1	0.476	<1
H4097-6	MW-6	<1	<1	<0.2	<1
Quality Control		1.937	1.983	0.995	0.520
True Value QC		2.000	2.000	1.000	0.500
% Recovery		97	99	100	104
Relative Percent Difference		0.56	1.88	1.99	1.22
METHODS: EPA 600/04-79-020		220.1	236.1	243.1	289.1

Angie H. Allen
Chemist

04/15/99
Date

H4097M2.XLS

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



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

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 W. CLINTON ST. SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/15/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM

Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL AND INTACT
Sample Received By: GP
Analyzed By: AH/GP

RCRA METALS

LAB NUMBER SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:	04/13/99	04/14/99	04/14/99	04/14/99	04/14/99	04/14/99	04/15/99	04/14/99
H4097-1 MW-1	<0.1	0.087	<1	<0.01	<0.05	0.261	<0.002	<0.05
H4097-2 MW-2	<0.1	0.080	<1	<0.01	<0.05	0.195	<0.002	<0.05
H4097-3 MW-3	<0.1	0.053	<1	<0.01	<0.05	0.242	<0.002	<0.05
H4097-4 MW-4	<0.1	0.059	<1	<0.01	<0.05	0.239	<0.002	<0.05
H4097-5 MW-5	<0.1	0.061	<1	<0.01	<0.05	0.264	<0.002	<0.05
H4097-6 MW-6	<0.1	0.056	<1	<0.01	<0.05	0.208	<0.002	<0.05
Quality Control	0.201	1.020	19.69	0.506	0.046	2.999	0.0085	0.051
True Value QC	0.200	1.000	20.00	0.500	0.050	3.000	0.0100	0.050
% Recovery	101	102	98	101	92	100	95	102
Relative Percent Difference	2.77	0.83	0.28	1.27	4.49	1.38	2.4	3.6
METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	216.1	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740

Chemist

Date

H4097M1.XLS

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



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

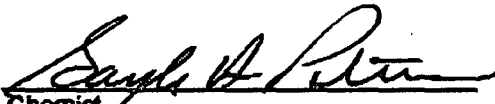
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

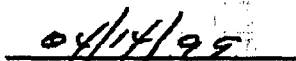
ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM

Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	F	NO ₃ ⁻	CN
ANALYSIS DATE		04/09/99	04/09/99	04/13/99
H4097-1	MW-1	2.04	0.22	<0.02
H4097-2	MW-2	2.01	<0.2	<0.02
H4097-3	MW-3	2.12	<0.2	<0.02
H4097-4	MW-4	2.12	<0.2	<0.02
H4097-5	MW-5	2.32	1.92	<0.02
H4097-6	MW-6	2.30	0.13	<0.02
Quality Control		0.95	10.01	0.190
True Value QC		1.00	10.00	0.200
% Accuracy		95	100	95
Relative Percent Difference		3.2	8.1	5.3
METHODS: EPA 600/4-79-020		340.1	353.3	335.2


Chemist


Date

H4097-2.XLS

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
701 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM

Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K Conductivity (mg/L) (u mhos/cm)	T-Alkalinity (mgCaCO ₃ /L)	
ANALYSIS DATE:		04/12/99	04/12/99	04/12/99	04/09/99	04/12/99	
H4097-1	MW-1	1487	352	304	13.22	10800	240
H4097-2	MW-2	939	102	156	8.82	5690	456
H4097-3	MW-3	559	126	215	11.5	5970	568
H4097-4	MW-4	1005	182	318	18.12	8800	656
H4097-5	MW-5	1690	272	401	18.88	11380	492
H4097-6	MW-6	446	133	122	6.49	4100	292
Quality Control		NR	48	51	4.96	1402	NR
True Value QC		NR	50	50	5.00	1413	NR
% Accuracy		NR	96	102	99	99	NR
Relative Percent Difference		NR	0	2.6	-	0.1	NR
METHODS:		SM3500-Ca-D	3500-Mg E	8049	120.1	310.1	

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		04/12/99	04/12/99	04/12/99	04/12/99	04/09/99	04/12/99
H4097-1	MW-1	2291	1837	0	293	7.44	6910
H4097-2	MW-2	1395	508	0	556	7.60	4060
H4097-3	MW-3	948	505	0	693	7.32	3700
H4097-4	MW-4	1893	651	0	800	7.51	6200
H4097-5	MW-5	2092	2278	0	800	7.23	7260
H4097-6	MW-6	785	389	0	356	7.61	2800
Quality Control		1255	47.69	112	221	7.02	NR
True Value QC		1319	50.00	124	259	7.00	NR
% Accuracy		95	95	90	85	100	NR
Relative Percent Difference		1.0	2.5	-	-	5.7	1.2
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Boyle H. Patton
Chemist

04/14/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Sample ID: MW-1
Lab Number: H4097-1

Analysis Date: 04/13/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

AROCLORS (PCB's) ppm	Sample Result	Method Blank	True Value		
			QC	QC	%IA
H4097-1					
PCB 1018	<0.001	<0.001	NR	NR	NR
PCB 1221	<0.001	<0.001	NR	NR	NR
PCB 1232	<0.001	<0.001	NR	NR	NR
PCB 1242	<0.001	<0.001	0.054	0.050	108
PCB 1248	<0.001	<0.001	NR	NR	NR
PCB 1254	<0.001	<0.001	0.054	0.050	108
PCB 1260	<0.001	<0.001	0.054	0.050	108

% Recovery	
Nitrobenzene-d5	67
2-Fluorobiphenyl	83
Terphenyl-d14	112

METHOD: SW-846 3550, 8270

Barry J. Cooke
 Chemist

4/13/99
 Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240

FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-1
Sample ID: MW-1Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

SEMIVOLATILES - PHENOLS (mg/L)	Sample Result H4097-1	Method Blank	QC	%Recov.	True Value QC
1 Phenol	<0.002	<0.002	0.036	72	0.050
2 2-Chlorophenol	<0.002	<0.002	0.032	64	0.050
3 2-Methylphenol	<0.002	<0.002	0.034	68	0.050
4 4-Methylphenol	<0.002	<0.002	0.034	68	0.050
5 2-Nitrophenol	<0.002	<0.002	0.035	70	0.050
6 2,4-Dimethylphenol	<0.002	<0.002	0.039	78	0.050
7 Other Dimethylphenols	<0.002	<0.002	NR	NR	NR
8 2,4-Dichlorophenol	<0.002	<0.002	0.039	78	0.050
9 2,6-Dichlorophenol	<0.002	<0.002	0.038	76	0.050
10 4-Chloro-3-methylphenol	<0.002	<0.002	0.038	76	0.050
11 2,4,6-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
12 2,4,5-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
13 2,4-Dinitrophenol	<0.002	<0.002	0.042	84	0.050
14 4-Nitrophenol	<0.002	<0.002	0.040	80	0.050
15 2,3,4,6-Tetrachlorophenol	<0.002	<0.002	0.039	78	0.050
16 4,6-Dinitro-2-methylphenol	<0.002	<0.002	0.041	82	0.050
17 Pentachlorophenol	<0.002	<0.002	0.043	86	0.050
Total Phenols		<0.005			

	% Recovery
18 2-Fluorophenol	62
19 Phenol-d5	55
20 2,4,6-Tribromophenol	96

METHODS: EPA 625/SW-846 8270

Burgess J. A. Cooke, Ph. D.
4/13/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT
Lab Number: H4097-1
Sample ID: MW-1

Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

POLYNUCLEAR AROMATIC
HYDROCARBONS - 625 (mg/L)

	Sample Result H4097-1	Method Blank	QC	% Recov.	True Value QC
1 Naphthalene	0.002	0.001	0.041	82	0.050
2 2-Methylnaphthalene	<0.002	<0.002	0.041	82	0.050
3 1-Methylnaphthalene	<0.002	<0.002	NR	NR	NR
4 Acenaphthylene	<0.001	<0.001	0.040	80	0.050
5 Acenaphthene	<0.001	<0.001	0.040	80	0.050
6 Fluorene	<0.001	<0.001	0.040	80	0.050
7 Phenanthrene	<0.001	<0.001	0.045	90	0.050
8 Anthracene	<0.001	<0.001	0.042	84	0.050
9 Fluoranthene	<0.001	<0.001	0.043	86	0.050
10 Pyrene	<0.001	<0.001	0.043	86	0.050
11 Benzo(a)anthracene	<0.001	<0.001	0.044	88	0.050
12 Chrysene	<0.001	<0.001	0.041	82	0.050
13 Benzo(b)fluoranthene	<0.001	<0.001	0.030	60	0.050
14 Benzo(k)fluoranthene	<0.001	<0.001	0.030	60	0.050
15 Benzo(a)pyrene	<0.0007	<0.0007	0.040	80	0.050
16 Indeno(1,2,3-cd)pyrene	<0.001	<0.001	0.041	82	0.050
17 Dibenzo(a,h)anthracene	<0.001	<0.001	0.039	78	0.050
18 Benzo(g,h,i)perylene	<0.001	<0.001	0.040	80	0.050

% Recovery

19 Nitrobenzene-d5	87
20 2-Fluorobiphenyl	83
21 Terphenyl-d14	112

METHODS: EPA 625

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

4/13/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/10/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-1
Sample ID: MW-1

Analysis Date: 04/09/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	<0.002	<0.002	0.102	102	0.100
1,1-Dichloroethylene	<0.002	<0.002	0.104	104	0.100
Methylene Chloride*	0.003	0.014	0.106	106	0.100
Chloroform	<0.002	<0.002	0.106	106	0.100
1,1-Dichloroethane	<0.002	<0.002	0.093	93	0.100
1,2-Dichloroethane	<0.002	<0.002	0.099	99	0.100
Benzene	<0.002	<0.002	0.111	111	0.100
Carbon Tetrachloride	<0.002	<0.002	0.094	94	0.100
Toluene	<0.002	<0.002	0.099	99	0.100
Trichloroethylene	<0.002	<0.002	0.097	97	0.100
Tetrachloroethylene	<0.002	<0.002	0.090	90	0.100
Ethylbenzene	<0.002	<0.002	0.092	92	0.100
m,p-Xylene	<0.004	<0.004	0.186	93	0.200
o-Xylene	<0.002	<0.002	0.093	93	0.100
1,1,1-Trichloroethane	<0.002	<0.002	0.099	99	0.100
1,1,2-Trichloroethane	<0.002	<0.002	0.102	102	0.100
1,1,2,2-Tetrachloroethane	<0.002	<0.002	0.103	103	0.100
Ethylene Dibromide	<0.002	<0.002	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	97
Toluene-d8	99
Bromofluorobenzene	101

METHODS: EPA SW 846-8260

*Detected at comparable levels in sample and method blank.

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

4/10/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Sample ID: MW-2
Lab Number: H4097-2

Analysis Date: 04/13/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

AROCLORS (PCB's)	Sample	Method	True Value		
ppm	Result	Blank	QC	QC	%IA
	H4097-2				
PCB 1016	<0.001	<0.001	NR	NR	NR
PCB 1221	<0.001	<0.001	NR	NR	NR
PCB 1232	<0.001	<0.001	NR	NR	NR
PCB 1242	<0.001	<0.001	0.054	0.050	108
PCB 1248	<0.001	<0.001	NR	NR	NR
PCB 1254	<0.001	<0.001	0.054	0.050	108
PCB 1280	<0.001	<0.001	0.054	0.050	108

% Recovery	
Nitrobenzene-d5	66
2-Fluorobiphenyl	86
Terphenyl-d14	103

METHOD: SW-846 3550, 8270

Chemist

Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNÉGY
Project Location: MONUMENT, NM
Lab Number: H4097-2
Sample ID: MW-2

Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

SEMIVOLATILES - PHENOLS (mg/L)	Sample Result H4097-2	Method Blank	True Value		
			QC	%Recov.	QC
1 Phenol	0.002	<0.002	0.036	72	0.050
2 2-Chlorophenol	<0.002	<0.002	0.032	64	0.050
3 2-Methylphenol	<0.002	<0.002	0.034	68	0.050
4 4-Methylphenol	<0.002	<0.002	0.034	68	0.050
5 2-Nitrophenol	<0.002	<0.002	0.035	70	0.050
6 2,4-Dimethylphenol	<0.002	<0.002	0.039	78	0.050
7 Other Dimethylphenols	<0.002	<0.002	NR	NR	NR
8 2,4-Dichlorophenol	<0.002	<0.002	0.039	78	0.050
9 2,6-Dichlorophenol	<0.002	<0.002	0.038	76	0.050
10 4-Chloro-3-methylphenol	<0.002	<0.002	0.038	76	0.050
11 2,4,6-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
12 2,4,5-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
13 2,4-Dinitrophenol	<0.002	<0.002	0.042	84	0.050
14 4-Nitrophenol	<0.002	<0.002	0.040	80	0.050
15 2,3,4,6-Tetrachlorophenol	<0.002	<0.002	0.039	78	0.050
16 4,6-Dinitro-2-methylphenol	<0.002	<0.002	0.041	82	0.050
17 Pentachlorophenol	<0.002	<0.002	0.043	86	0.050
Total Phenols		<0.005			

% Recovery	
18 2-Fluorophenol	32
19 Phenol-d5	28
20 2,4,6-Tribromophenol	58

METHODS: EPA 825/SW-846 8270

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

4/13/99
Date

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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-2
Sample ID: MW-2

Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

POLYNUCLEAR AROMATIC HYDROCARBONS - 625 (mg/L)

	Sample Result H4097-2	Method Blank	QC	% Recov.	True Value QC
1 Naphthalene	0.004	0.001	0.041	82	0.050
2 2-Methylnaphthalene	<0.002	<0.002	0.041	82	0.050
3 1-Methylnaphthalene	<0.002	<0.002	NR	NR	NR
4 Acenaphthylene	<0.001	<0.001	0.040	80	0.050
5 Acenaphthene	<0.001	<0.001	0.040	80	0.050
6 Fluorene	<0.001	<0.001	0.040	80	0.050
7 Phenanthrene	<0.001	<0.001	0.045	90	0.050
8 Anthracene	<0.001	<0.001	0.042	84	0.050
9 Fluoranthene	<0.001	<0.001	0.043	86	0.050
10 Pyrene	<0.001	<0.001	0.043	86	0.050
11 Benzo(a)anthracene	<0.001	<0.001	0.044	88	0.050
12 Chrysene	<0.001	<0.001	0.041	82	0.050
13 Benzo(b)fluoranthene	<0.001	<0.001	0.030	60	0.050
14 Benzo(k)fluoranthene	<0.001	<0.001	0.030	60	0.050
15 Benzo(a)pyrene	<0.0007	<0.0007	0.040	80	0.050
16 Indeno(1,2,3-cd)pyrene	<0.001	<0.001	0.041	82	0.050
17 Dibenzo(a,h)anthracene	<0.001	<0.001	0.039	78	0.050
18 Benzo(g,h,i)perylene	<0.001	<0.001	0.040	80	0.050

% Recovery

19 Nitrobenzene-d5	66
20 2-Fluorobiphenyl	86
21 Terphenyl-d14	103

METHODS: EPA 625

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

4/13/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/10/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4087-2
Sample ID: MW-2

Analysis Date: 04/09/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	<0.002	<0.002	0.102	102	0.100
1,1-Dichloroethylene	<0.002	<0.002	0.104	104	0.100
Methylene Chloride*	0.002	0.014	0.106	106	0.100
Chloroform	<0.002	<0.002	0.106	106	0.100
1,1-Dichloroethane	<0.002	<0.002	0.093	93	0.100
1,2-Dichloroethane	<0.002	<0.002	0.099	99	0.100
Benzene	<0.002	<0.002	0.111	111	0.100
Carbon Tetrachloride	<0.002	<0.002	0.094	94	0.100
Toluene	<0.002	<0.002	0.099	99	0.100
Trichloroethylene	<0.002	<0.002	0.097	97	0.100
Tetrachloroethylene	<0.002	<0.002	0.090	90	0.100
Ethylbenzene	<0.002	<0.002	0.092	92	0.100
m,p-Xylene	<0.004	<0.004	0.186	93	0.200
o-Xylene	<0.002	<0.002	0.093	93	0.100
1,1,1-Trichloroethane	<0.002	<0.002	0.099	99	0.100
1,1,2-Trichloroethane	<0.002	<0.002	0.102	102	0.100
1,1,2,2-Tetrachloroethane	<0.002	<0.002	0.103	103	0.100
Ethylene Dibromide	<0.002	<0.002	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	86
Toluene-d8	91
Bromofluorobenzene	92

METHODS: EPA SW 846-8260

*Detected at comparable levels in sample and method blank

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

Date

4/10/99

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Sample ID: MW-3
Lab Number: H4097-3

Analysis Date: 04/13/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

AROCLORS (PCB's) **Sample** **Method** **True Value**
 Result **Blank** **QC** **QC** **%IA**
 H4097-3

PCB 1016	<0.001	<0.001	NR	NR	NR
PCB 1221	<0.001	<0.001	NR	NR	NR
PCB 1232	<0.001	<0.001	NR	NR	NR
PCB 1242	<0.001	<0.001	0.054	0.050	108
PCB 1248	<0.001	<0.001	NR	NR	NR
PCB 1254	<0.001	<0.001	0.054	0.050	108
PCB 1260	<0.001	<0.001	0.054	0.050	108

% Recovery

Nitrobenzene-d5	79
2-Fluorobiphenyl	98
Terphenyl-d14	108

METHOD: SW-846 3550, 8270

Chemist

Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-3
Sample ID: MW-3

Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

SEMIVOLATILES - PHENOLS (mg/L)	Sample Result H4097-3	Method Blank	True Value		
			QC	%Recov.	QC
1 Phenol	0.002	<0.002	0.036	72	0.050
2 2-Chlorophenol	<0.002	<0.002	0.032	64	0.050
3 2-Methylphenol	<0.002	<0.002	0.034	68	0.050
4 4-Methylphenol	<0.002	<0.002	0.034	68	0.050
5 2-Nitrophenol	<0.002	<0.002	0.035	70	0.050
6 2,4-Dimethylphenol	<0.002	<0.002	0.039	78	0.050
7 Other Dimethylphenols	<0.002	<0.002	NR	NR	NR
8 2,4-Dichlorophenol	<0.002	<0.002	0.039	78	0.050
9 2,6-Dichlorophenol	<0.002	<0.002	0.038	76	0.050
10 4-Chloro-3-methylphenol	<0.002	<0.002	0.038	76	0.050
11 2,4,6-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
12 2,4,5-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
13 2,4-Dinitrophenol	<0.002	<0.002	0.042	84	0.050
14 4-Nitrophenol	<0.002	<0.002	0.040	80	0.050
15 2,3,4,6-Tetrachlorophenol	<0.002	<0.002	0.039	78	0.050
16 4,6-Dinitro-2-methylphenol	<0.002	<0.002	0.041	82	0.050
17 Pentachlorophenol	<0.002	<0.002	0.043	86	0.050
Total Phenols		<0.005			

	% Recovery
18 2-Fluorophenol	33
19 Phenol-d5	32
20 2,4,6-Tribromophenol	66

METHODS: EPA 625/SW-846 8270

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

Date

4/13/99

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-3
Sample ID: MW-3

Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

POLYNUCLEAR AROMATIC
HYDROCARBONS - 625 (mg/L)

	Sample Result H4097-3	Method Blank	QC	% Recov.	True Value QC
1 Naphthalene	0.002	0.001	0.041	82	0.050
2 2-Methylnaphthalene	<0.002	<0.002	0.041	82	0.050
3 1-Methylnaphthalene	<0.002	<0.002	NR	NR	NR
4 Acenaphthylene	<0.001	<0.001	0.040	80	0.050
5 Acenaphthene	<0.001	<0.001	0.040	80	0.050
6 Fluorene	<0.001	<0.001	0.040	80	0.050
7 Phenanthrene	<0.001	<0.001	0.045	90	0.050
8 Anthracene	<0.001	<0.001	0.042	84	0.050
9 Fluoranthene	<0.001	<0.001	0.043	86	0.050
10 Pyrene	<0.001	<0.001	0.043	86	0.050
11 Benzo(a)anthracene	<0.001	<0.001	0.044	88	0.050
12 Chrysene	<0.001	<0.001	0.041	82	0.050
13 Benzo(b)fluoranthene	<0.001	<0.001	0.030	60	0.050
14 Benzo(k)fluoranthene	<0.001	<0.001	0.030	60	0.050
15 Benzo(a)pyrene	<0.0007	<0.0007	0.040	80	0.050
16 Indeno(1,2,3-cd)pyrene	<0.001	<0.001	0.041	82	0.050
17 Dibenzo(a,h)anthracene	<0.001	<0.001	0.039	78	0.050
18 Benzo(g,h,i)perylene	<0.001	<0.001	0.040	80	0.050

% Recovery

19 Nitrobenzene-d5	79
20 2-Fluorobiphenyl	98
21 Terphenyl-d14	108

METHODS: EPA 625

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

4/13/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/10/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-3
Sample ID: MW-3

Analysis Date: 04/09/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	<0.002	<0.002	0.102	102	0.100
1,1-Dichloroethylene	<0.002	<0.002	0.104	104	0.100
Methylene Chloride*	0.022	0.014	0.106	106	0.100
Chloroform	<0.002	<0.002	0.106	106	0.100
1,1-Dichloroethane	<0.002	<0.002	0.093	93	0.100
1,2-Dichloroethane	<0.002	<0.002	0.099	99	0.100
Benzene	<0.002	<0.002	0.111	111	0.100
Carbon Tetrachloride	<0.002	<0.002	0.094	94	0.100
Toluene	<0.002	<0.002	0.099	99	0.100
Trichloroethylene	<0.002	<0.002	0.097	97	0.100
Tetrachloroethylene	<0.002	<0.002	0.090	90	0.100
Ethylbenzene	<0.002	<0.002	0.092	92	0.100
m,p-Xylene	<0.004	<0.004	0.186	93	0.200
o-Xylene	<0.002	<0.002	0.093	93	0.100
1,1,1-Trichloroethane	<0.002	<0.002	0.099	99	0.100
1,1,2-Trichloroethane	<0.002	<0.002	0.102	102	0.100
1,1,2,2-Tetrachloroethane	<0.002	<0.002	0.103	103	0.100
Ethylene Dibromide	<0.002	<0.002	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	103
Toluene-d8	98
Bromofluorobenzene	104

METHODS: EPA SW 846-8260

*Detected at comparable levels in sample and method blank

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

4/10/99
Date

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**ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:**

**Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-4
Sample ID: MW-4**

**Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC**

SEMIVOLATILES - PHENOLS (mg/L)	Sample Result H4097-4	Method Blank	True Value		
			QC	%Recov.	QC
1 Phenol	0.002	<0.002	0.036	72	0.050
2 2-Chlorophenol	<0.002	<0.002	0.032	64	0.050
3 2-Methylphenol	<0.002	<0.002	0.034	68	0.050
4 4-Methylphenol	<0.002	<0.002	0.034	68	0.050
5 2-Nitrophenol	<0.002	<0.002	0.035	70	0.050
6 2,4-Dimethylphenol	<0.002	<0.002	0.039	78	0.050
7 Other Dimethylphenols	<0.002	<0.002	NR	NR	NR
8 2,4-Dichlorophenol	<0.002	<0.002	0.038	76	0.050
9 2,6-Dichlorophenol	<0.002	<0.002	0.038	76	0.050
10 4-Chloro-3-methylphenol	<0.002	<0.002	0.038	76	0.050
11 2,4,6-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
12 2,4,5-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
13 2,4-Dinitrophenol	<0.002	<0.002	0.042	84	0.050
14 4-Nitrophenol	<0.002	<0.002	0.040	80	0.050
15 2,3,4,6-Tetrachlorophenol	<0.002	<0.002	0.039	78	0.050
16 4,6-Dinitro-2-methylphenol	<0.002	<0.002	0.041	82	0.050
17 Pentachlorophenol	<0.002	<0.002	0.043	86	0.050
Total Phenols		<0.005			

	% Recovery
18 2-Fluorophenol	36
19 Phenol-d5	31
20 2,4,6-Tribromophenol	70

METHODS: EPA 625/SW-846 8270

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

4/13/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Sample ID: MW-4
Lab Number: H4097-4

Analysis Date: 04/13/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

AROCLORS (PCB's) **Sample** **Method** **True Value**
ppm **Result** **Blank** **QC** **QC** **%IA**
H4097-4

PCB 1018	<0.001	<0.001	NR	NR	NR
PCB 1221	<0.001	<0.001	NR	NR	NR
PCB 1232	<0.001	<0.001	NR	NR	NR
PCB 1242	<0.001	<0.001	0.054	0.050	108
PCB 1248	<0.001	<0.001	NR	NR	NR
PCB 1254	<0.001	<0.001	0.054	0.050	108
PCB 1260	<0.001	<0.001	0.054	0.050	108

	% Recovery
Nitrobenzene-d5	100
2-Fluorobiphenyl	112
Terphenyl-d14	112

METHOD: SW-846 3550, 8270

Chemist

Date

4/13/99

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4087-4
Sample ID: MW-4

Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

POLYNUCLEAR AROMATIC
HYDROCARBONS - 625 (mg/L)

	Sample Result H4097-4	Method Blank	QC	% Recov.	True Value QC
1 Naphthalene	0.003	0.001	0.041	82	0.050
2 2-Methylnaphthalene	<0.002	<0.002	0.041	82	0.050
3 1-Methylnaphthalene	<0.002	<0.002	NR	NR	NR
4 Acenaphthylene	<0.001	<0.001	0.040	80	0.050
5 Acenaphthene	<0.001	<0.001	0.040	80	0.050
6 Fluorene	<0.001	<0.001	0.040	80	0.050
7 Phenanthrene	<0.001	<0.001	0.045	90	0.050
8 Anthracene	<0.001	<0.001	0.042	84	0.050
9 Fluoranthene	<0.001	<0.001	0.043	86	0.050
10 Pyrene	<0.001	<0.001	0.043	86	0.050
11 Benzo(a)anthracene	<0.001	<0.001	0.044	88	0.050
12 Chrysene	<0.001	<0.001	0.041	82	0.050
13 Benzo(b)fluoranthene	<0.001	<0.001	0.030	60	0.050
14 Benzo(k)fluoranthene	<0.001	<0.001	0.030	60	0.050
15 Benzo(a)pyrene	<0.0007	<0.0007	0.040	80	0.050
16 Indeno(1,2,3-cd)pyrene	<0.001	<0.001	0.041	82	0.050
17 Dibenzo(a,h)anthracene	<0.001	<0.001	0.039	78	0.050
18 Benzo(g,h,i)perylene	<0.001	<0.001	0.040	80	0.050

% Recovery

19 Nitrobenzene-d5	100
20 2-Fluorobiphenyl	112
21 Terphenyl-d14	112

METHODS: EPA 625

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

4/13/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/10/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-4
Sample ID: MW-4

Analysis Date: 04/09/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	<0.002	<0.002	0.102	102	0.100
1,1-Dichloroethylene	<0.002	<0.002	0.104	104	0.100
Methylene Chloride*	0.007	0.014	0.108	108	0.100
Chloroform	<0.002	<0.002	0.106	106	0.100
1,1-Dichloroethane	<0.002	<0.002	0.093	93	0.100
1,2-Dichloroethane	<0.002	<0.002	0.099	99	0.100
Benzene	<0.002	<0.002	0.111	111	0.100
Carbon Tetrachloride	<0.002	<0.002	0.094	94	0.100
Toluene	<0.002	<0.002	0.099	99	0.100
Trichloroethylene	<0.002	<0.002	0.097	97	0.100
Tetrachloroethylene	<0.002	<0.002	0.090	90	0.100
Ethylbenzene	<0.002	<0.002	0.092	92	0.100
m,p-Xylene	<0.004	<0.004	0.186	93	0.200
o-Xylene	<0.002	<0.002	0.093	93	0.100
1,1,1-Trichloroethane	<0.002	<0.002	0.089	99	0.100
1,1,2-Trichloroethane	<0.002	<0.002	0.102	102	0.100
1,1,2,2-Tetrachloroethane	<0.002	<0.002	0.103	103	0.100
Ethylene Dibromide	<0.002	<0.002	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	87
Toluene-d8	91
Bromofluorobenzene	98

METHODS: EPA SW 846-8260

*Detected at comparable levels in sample and method blank.

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

Date

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PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Sample ID: MW-5
Lab Number: H4097-5

Analysis Date: 04/13/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

AROCLORS (PCB's) ppm	Sample Result	Method Blank	True Value		
			QC	QC	%IA
H4097-5					
PCB 1016	<0.001	<0.001	NR	NR	NR
PCB 1221	<0.001	<0.001	NR	NR	NR
PCB 1232	<0.001	<0.001	NR	NR	NR
PCB 1242	<0.001	<0.001	0.054	0.050	108
PCB 1248	<0.001	<0.001	NR	NR	NR
PCB 1254	<0.001	<0.001	0.054	0.050	108
PCB 1260	<0.001	<0.001	0.054	0.050	108

% Recovery	
Nitrobenzene-d5	70
2-Fluorobiphenyl	101
Terphenyl-d14	106

METHOD: SW-846 3550, 8270

Chemist

Date

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN

703 E. CLINTON ST., SUITE 103

HOBBS, NM 88240

FAX TO:

Receiving Date: 04/08/99

Reporting Date: 04/13/99

Project Number: NOT GIVEN

Project Name: CHEVRON / DYNEGY

Project Location: MONUMENT, NM

Lab Number: H4097-5

Sample ID: MW-5

Analysis Date: 04/12/99

Sampling Date: 04/08/99

Sample Type: GROUNDWATER

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

SEMIVOLATILES - PHENOLS (mg/L)	Sample Result H4097-5	Method Blank	QC	%Recov.	True Value QC
1 Phenol	<0.002	<0.002	0.036	72	0.050
2 2-Chlorophenol	<0.002	<0.002	0.032	64	0.050
3 2-Methylphenol	<0.002	<0.002	0.034	68	0.050
4 4-Methylphenol	<0.002	<0.002	0.034	68	0.050
5 2-Nitrophenol	<0.002	<0.002	0.035	70	0.050
6 2,4-Dimethylphenol	<0.002	<0.002	0.039	78	0.050
7 Other Dimethylphenols	<0.002	<0.002	NR	NR	NR
8 2,4-Dichlorophenol	<0.002	<0.002	0.039	78	0.050
9 2,6-Dichlorophenol	<0.002	<0.002	0.038	76	0.050
10 4-Chloro-3-methylphenol	<0.002	<0.002	0.038	76	0.050
11 2,4,6-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
12 2,4,5-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
13 2,4-Dinitrophenol	<0.002	<0.002	0.042	84	0.050
14 4-Nitrophenol	<0.002	<0.002	0.040	80	0.050
15 2,3,4,6-Tetrachlorophenol	<0.002	<0.002	0.039	78	0.050
16 4,6-Dinitro-2-methylphenol	<0.002	<0.002	0.041	82	0.050
17 Pentachlorophenol	<0.002	<0.002	0.043	86	0.050
Total Phenols		<0.005			

	% Recovery
18 2-Fluorophenol	31
19 Phenol-d5	26
20 2,4,6-Tribromophenol	44

METHODS: EPA 625/SW-846 8270

Burgess J.A. Cooke, Ph. D.

Date

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PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-5
Sample ID: MW-5

Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

POLYNUCLEAR AROMATIC
HYDROCARBONS - 625 (mg/L)

	Sample Result H4097-5	Method Blank	QC	% Recov.	True Value QC
1 Naphthalene	0.001	0.001	0.041	82	0.050
2 2-Methylnaphthalene	<0.002	<0.002	0.041	82	0.050
3 1-Methylnaphthalene	<0.002	<0.002	NR	NR	NR
4 Acenaphthylene	<0.001	<0.001	0.040	80	0.050
5 Acenaphthene	<0.001	<0.001	0.040	80	0.050
6 Fluorene	<0.001	<0.001	0.040	80	0.050
7 Phenanthrene	<0.001	<0.001	0.045	90	0.050
8 Anthracene	<0.001	<0.001	0.042	84	0.050
9 Fluoranthene	<0.001	<0.001	0.043	86	0.050
10 Pyrene	<0.001	<0.001	0.043	86	0.050
11 Benzo(a)anthracene	<0.001	<0.001	0.044	88	0.050
12 Chrysene	<0.001	<0.001	0.041	82	0.050
13 Benzo(b)fluoranthene	<0.001	<0.001	0.030	60	0.050
14 Benzo(k)fluoranthene	<0.001	<0.001	0.030	60	0.050
15 Benzo(a)pyrene	<0.0007	<0.0007	0.040	80	0.050
16 Indeno(1,2,3-cd)pyrene	<0.001	<0.001	0.041	82	0.050
17 Dibenzo(a,h)anthracene	<0.001	<0.001	0.039	78	0.050
18 Benzo(g,h,i)perylene	<0.001	<0.001	0.040	80	0.050

% Recovery

19 Nitrobenzene-d5	70
20 2-Fluorobiphenyl	101
21 Terphenyl-d14	106

METHODS: EPA 825

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

4/13/99
Date

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PHONE (606) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/10/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4087-5
Sample ID: MW-5

Analysis Date: 04/09/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	<0.002	<0.002	0.102	102	0.100
1,1-Dichloroethylene	<0.002	<0.002	0.104	104	0.100
Methylene Chloride*	0.005	0.014	0.106	106	0.100
Chloroform	<0.002	<0.002	0.106	106	0.100
1,1-Dichloroethane	<0.002	<0.002	0.093	93	0.100
1,2-Dichloroethane	<0.002	<0.002	0.099	99	0.100
Benzene	0.003	<0.002	0.111	111	0.100
Carbon Tetrachloride	<0.002	<0.002	0.094	94	0.100
Toluene	<0.002	<0.002	0.099	99	0.100
Trichloroethylene	<0.002	<0.002	0.097	97	0.100
Tetrachloroethylene	<0.002	<0.002	0.090	90	0.100
Ethylbenzene	<0.002	<0.002	0.092	92	0.100
m,p-Xylene	<0.004	<0.004	0.186	93	0.200
o-Xylene	<0.002	<0.002	0.093	93	0.100
1,1,1-Trichloroethane	<0.002	<0.002	0.099	99	0.100
1,1,2-Trichloroethane	<0.002	<0.002	0.102	102	0.100
1,1,2,2-Tetrachloroethane	<0.002	<0.002	0.103	103	0.100
Ethylene Dibromide	<0.002	<0.002	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	83
Toluene-d8	87
Bromofluorobenzene	87

METHODS: EPA SW 846-8260

*Detected at comparable levels in sample and method blank.

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

4/10/99
Date

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CARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Sample ID: MW-6
Lab Number: H4097-6

Analysis Date: 04/13/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

AROCLORS (PCB's)	Sample	Method	True Value		
ppm	Result	Blank	QC	QC	%IA
H4097-6					
PCB 1016	<0.001	<0.001	NR	NR	NR
PCB 1221	<0.001	<0.001	NR	NR	NR
PCB 1232	<0.001	<0.001	NR	NR	NR
PCB 1242	<0.001	<0.001	0.054	0.050	108
PCB 1248	<0.001	<0.001	NR	NR	NR
PCB 1254	<0.001	<0.001	0.054	0.050	108
PCB 1260	<0.001	<0.001	0.054	0.050	108

% Recovery	
Nitrobenzene-d5	63
2-Fluorobiphenyl	94
Terphenyl-d14	103

METHOD: SW-846 3550, 8270

Chemist

Date

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-6
Sample ID: MW-8

Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

SEMIVOLATILES - PHENOLS (mg/L)	Sample Result H4097-6	Method Blank	True Value		
			QC	%Recov.	QC
1 Phenol	<0.002	<0.002	0.036	72	0.050
2 2-Chlorophenol	<0.002	<0.002	0.032	64	0.050
3 2-Methylphenol	<0.002	<0.002	0.034	68	0.050
4 4-Methylphenol	<0.002	<0.002	0.034	68	0.050
5 2-Nitrophenol	<0.002	<0.002	0.035	70	0.050
6 2,4-Dimethylphenol	<0.002	<0.002	0.039	78	0.050
7 Other Dimethylphenols	<0.002	<0.002	NR	NR	NR
8 2,4-Dichlorophenol	<0.002	<0.002	0.039	78	0.050
9 2,6-Dichlorophenol	<0.002	<0.002	0.038	76	0.050
10 4-Chloro-3-methylphenol	<0.002	<0.002	0.038	76	0.050
11 2,4,6-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
12 2,4,5-Trichlorophenol	<0.002	<0.002	0.039	78	0.050
13 2,4-Dinitrophenol	<0.002	<0.002	0.042	84	0.050
14 4-Nitrophenol	<0.002	<0.002	0.040	80	0.050
15 2,3,4,6-Tetrachlorophenol	<0.002	<0.002	0.039	78	0.050
16 4,6-Dinitro-2-methylphenol	<0.002	<0.002	0.041	82	0.050
17 Pentachlorophenol	<0.002	<0.002	0.043	86	0.050
Total Phenols		<0.005			

	% Recovery
18 2-Fluorophenol	31
19 Phenol-d5	28
20 2,4,6-Tribromophenol	47

METHODS: EPA 625/SW-846 8270

Burgess J.A. Coyle
Burgess J.A. Coyle, Ph. D.

4/13/99
Date

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240

FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/13/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-6
Sample ID: MW-6Analysis Date: 04/12/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BCPOLYNUCLEAR AROMATIC
HYDROCARBONS - 625 (mg/L)

	Sample Result H4097-6	Method Blank	QC	% Recov.	True Value QC
1 Naphthalene	0.001	0.001	0.041	82	0.050
2 2-Methylnaphthalene	<0.002	<0.002	0.041	82	0.050
3 1-Methylnaphthalene	<0.002	<0.002	NR	NR	NR
4 Acenaphthylene	<0.001	<0.001	0.040	80	0.050
5 Acenaphthene	<0.001	<0.001	0.040	80	0.050
6 Fluorene	<0.001	<0.001	0.040	80	0.050
7 Phenanthrene	<0.001	<0.001	0.045	90	0.050
8 Anthracene	<0.001	<0.001	0.042	84	0.050
9 Fluoranthene	<0.001	<0.001	0.043	86	0.050
10 Pyrene	<0.001	<0.001	0.043	86	0.050
11 Benzo(a)anthracene	<0.001	<0.001	0.044	88	0.050
12 Chrysene	<0.001	<0.001	0.041	82	0.050
13 Benzo(b)fluoranthene	<0.001	<0.001	0.030	60	0.050
14 Benzo(k)fluoranthene	<0.001	<0.001	0.030	60	0.050
15 Benzo(a)pyrene	<0.0007	<0.0007	0.040	80	0.050
16 Indeno(1,2,3-cd)pyrene	<0.001	<0.001	0.041	82	0.050
17 Dibenzo(a,h)anthracene	<0.001	<0.001	0.039	78	0.050
18 Benzo(g,h,i)perylene	<0.001	<0.001	0.040	80	0.050

% Recovery

19 Nitrobenzene-d5	63
20 2-Fluorobiphenyl	94
21 Terphenyl-d14	103

METHODS: EPA 625

Burgess J. A. Cooke, Ph.D.
4/13/99
Date

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PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON ST., SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/08/99
Reporting Date: 04/10/99
Project Number: NOT GIVEN
Project Name: CHEVRON / DYNEGY
Project Location: MONUMENT, NM
Lab Number: H4097-6
Sample ID: MW-6

Analysis Date: 04/09/99
Sampling Date: 04/08/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

VOLATILES (mg/L)	Sample Result	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	<0.002	<0.002	0.102	102	0.100
1,1-Dichloroethylene	<0.002	<0.002	0.104	104	0.100
Methylene Chloride*	0.008	0.014	0.106	106	0.100
Chloroform	<0.002	<0.002	0.106	106	0.100
1,1-Dichloroethane	<0.002	<0.002	0.093	93	0.100
1,2-Dichloroethane	<0.002	<0.002	0.099	99	0.100
Benzene	<0.002	<0.002	0.111	111	0.100
Carbon Tetrachloride	<0.002	<0.002	0.094	94	0.100
Toluene	0.003	<0.002	0.099	99	0.100
Trichloroethylene	<0.002	<0.002	0.097	97	0.100
Tetrachloroethylene	<0.002	<0.002	0.090	90	0.100
Ethylbenzene	<0.002	<0.002	0.092	92	0.100
m,p-Xylene	<0.004	<0.004	0.186	93	0.200
o-Xylene	<0.002	<0.002	0.093	93	0.100
1,1,1-Trichloroethane	<0.002	<0.002	0.099	89	0.100
1,1,2-Trichloroethane	<0.002	<0.002	0.102	102	0.100
1,1,2,2-Tetrachloroethane	<0.002	<0.002	0.103	103	0.100
Ethylene Dibromide	<0.002	<0.002	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	82
Toluene-d8	89
Bromofluorobenzene	90

METHODS: EPA SW 846-8260

*Detected at comparable levels in sample and method blank

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

4/10/99
Date

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

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

Energy Minerals and Natural Resources Department

Oil Conservation Division

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

RECEIVED

JUN 7 1999

Environmental Bureau

FORM C-
Originated 8

Submit Or
Plus 1
to approp
District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator HALLIBURTON
2. Management Facility Destination SUNDANCE SERVICES INC.	5. Originating Site HOBBS FACILITY
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State NEW MEXICO	6. Transporter Santa
7. Location of Material (Street Address or ULSTR) 5801 LOVINGTON HWY HOBBS, NM 88240	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are for Halliburton's Hobbs facility. This waste is generated by the washing of trucks. I have included a certificate of waste and chain of custody. Sundance would like approval to accept this material into our Parabo facility.

Estimated Volume 20 yards 20 + 4000 gallons
Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 5-26-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 6-4-99
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 6-7-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Durbin Energy Services

ADDRESS 5801 Louisa Hwy, Hobbs NM 88240

GENERATING SITE Scrub

COUNTY LA STATE NM

TYPE OF WASTE Waste Grit

ESTIMATED VOLUME 15 gals

GENERATING PROCESS Washing of equipment

Returned from field

REMARKS

NMOCDF FACILITY Spill Response Services

TRUCKING COMPANY Durbin

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1983 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR Sections 261.3.

AGENT [Signature]

SIGNATURE

NAME Scott Nelson

PRINTED

ADDRESS 5801 Louisa Hwy

Hobbs NM 88240

DATE 5.20.99

15053932476

CARDINAL LABS

571 P02 NOV 12 '98 14:32



PHONE (512) 572-7001 • 2111 BEECHWOOD • ARLING, TX 79003
PHONE (505) 898-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062

Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM

Sampling Date: 11/09/98
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NO.	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		11/10/98	11/10/98	11/09/98	11/09/98
H3918-1	WASHRACK GRIT	Not reactive	Not reactive	7.49	Nonflammable
Quality Control		NR	NR	6.87	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	98.6	NR
Relative Percent Difference		NR	NR	0.4	NR

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

Burgess J. G. Baker
Chemist

11/12/98
Date

H3918-4.XLS

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**CARDINAL
LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ARLINE, TX 76903

PHONE (805) 893-2439 • 151 E. MARLAND • HOBBES, NM 88240

**ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES**

ATTN: SCOTT NELSON

5901 LOVINGTON HWY

HOBBES, NM 88240

FAX TO: (505) 392-7062

Receiving Date: 11/09/98

Reporting Date: 11/12/98

Project Number: NOT GIVEN

Project Name: WASHRACK GRIT

Project Location: HOBBES, NM

Lab Number: H3918-1

Sample ID: WASHRACK GRIT

Analysis Date: 11/10/98

Sampling Date: 11/08/98

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result	Method Blank	QC	% Recov.	True Value
Pyridine	5.00	<0.005	<0.005	0.014	28	0.050
1,4-Dichlorobenzene	7.50	<0.005	<0.005	0.038	78	0.050
o-Cresol	200	<0.005	<0.005	0.033	66	0.050
m, p-Cresol	200	<0.005	<0.005	0.036	72	0.050
Hexachloroethane	3.00	<0.005	<0.005	0.034	68	0.050
Nitrobenzene	2.00	<0.005	<0.005	0.047	94	0.050
Hexachloro-1,3-butadiene	0.500	<0.005	<0.005	0.037	74	0.050
2,4,6-Trichlorophenol	2.00	<0.005	<0.005	0.042	84	0.050
2,4,6-Trichlorophenol	400	<0.005	<0.005	0.042	84	0.050
2,4-Dinitrotoluene	0.130	<0.005	<0.005	0.048	96	0.050
Hexachlorobenzene	0.130	<0.005	<0.005	0.049	98	0.050
Pentachlorophenol	100	<0.005	<0.005	0.039	78	0.050

% RECOVERY

Fluorophenol	22
Phenol-d5	17
Nitrobenzene-d5	58
2-Fluorobiphenyl	57
2,4,6-Trichlorophenol	43
Terphenyl-d14	68

METHODS: EPA SW 843-8270, 1311, 8510

Burgess J. Al Cooke
Burgess J. Al Cooke, P. E.

11/12/98
Date

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15053932476

CARDINAL LABS

671 P04

NOV 12 '98 14:33



PHONE (915) 573-7001 • 3111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 392-6325 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
6801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062

Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM
Lab Number: H3918-1
Sample ID: WASHRACK GRIT

Analysis Date: 11/10/98
Sampling Date: 11/09/98
Sample Type: OTHER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TOLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3918-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.088	88	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.085	85	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.082	82	0.100
Chloroform	8.0	<0.005	<0.005	0.082	82	0.100
1,2-Dichloroethane	0.8	<0.005	<0.005	0.084	84	0.100
Benzene	0.8	<0.005	<0.005	0.082	82	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.086	86	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.114	114	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.085	85	0.100
Chlorobenzene	100	<0.005	<0.005	0.082	82	0.100
1,4-Dichlorobenzene	7.8	<0.005	<0.005	0.088	88	0.100

% RECOVERY

Dibromofluoromethane	108
Toluene-d8	118
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311

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

11/12/98
Date

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PHONE (817) 673-7001 • 2111 BEECHWOOD • ARLING, TX 76009
 PHONE (505) 983-3226 • 191 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: SCOTT NELSON
 8801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO: (505) 392-7062

Receiving Date: 11/09/98
 Reporting Date: 11/12/98
 Project Number: NOT GIVEN
 Project Name: WASHRACK GRIT
 Project Location: HOBBS, NM

Sampling Date: 11/09/98
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		11/11/98	11/10/98	11/11/98	11/10/98	11/11/98	11/10/98	11/11/98	11/11/98
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H3018-1	WASHRACK	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	GRIT								
Quality Control		0.049	1.117	21.93	3.791	4.865	5.070	0.0085	0.068
True Value QC		0.050	1.000	20.00	4.000	5.000	5.000	0.0100	0.050
% Recovery		98	112	110	85	88	101	85	116
Relative Standard Deviation		7.270	0.30	4.07	1.62	1.04	7.97	6.60	0.88
METHODS: EPA 1311, 640/4-81A		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Burgess J. R. ...
 Chemist

11/12/98
 Date

H3018-3.XLS

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ <i>6-25-99 mjh</i>	4. Generator Exxon USA
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site J.L. Greenwood #13
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter unknown
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) L S9 T22S R37E	Lea County New Mexico
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. <u>B.</u> All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following MSDS is from the J.L. Greenwood #13 for Exxon USA. This waste was generated by a schedule workover and this material was left unused. I have included a mixture MSDS which is called BE-5 Microbiocide which is mixed with fresh water. This material is stored on site in some rental frac tanks. I have included a certificate of waste status. Sundance would like to ask for verbal approval to accept this material into our Parabo Facility.

Note: Prior approval was given on this same material on the Exxon NM State #30 in March 99. Letter is attached for reference.

Estimated Volume 700 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 6-17-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 6-22-99
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 6/24/99

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: J. L. Greenwood well #13SOURCE: well workoverDISPOSAL LOCATION: SUNDANCE SERVICES INC.

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

I, the undersigned as the agent for EXXON U.S.A.
concur with the status of the waste from the subject site.

Name

Timothy R. Reep

Title/Agency

Operations Compliance Tech.

Address

H.C.R. 1 Box 736
Seminole, Texas 79360

Signature

Timothy R. Reep

Date

6-17-99

EXXON COMPANY, U.S.A.
POST OFFICE BOX 4368 • HOUSTON, TEXAS 77210-4368

HOUSTON PRODUCTION ORGANIZATION
REGULATORY COMPLIANCE

March 9, 1999

Ms. Donna Roach
Sundance Services Inc.
Eunice, new Mexico

Dear Ms. Roach:

We have approximately 5500 barrels of non-exempt oil and gas waste that was generated from a scheduled workover that was not performed. The waste is a mixture of 66 pounds of Halliburton Energy Services 'BE-5' Microbiocide chemical and approximately 5500 barrels of fresh water. The MSDS for this chemical indicates that this waste is non-hazardous, and a copy of the MSDS is attached for your information. The waste is currently stored at New Mexico 'S' State well #30 in 11 frac tanks. Chaparral Services in Eunice will be used to haul this material to Sundance Services Inc. for disposal.

Please process this request as soon as possible so we can release the rental tanks.

Sincerely,



Ralph King
Operations Compliance Specialist

C:\data\winword\state30.doc

A DIVISION OF EXXON CORPORATION

NO. 5788 P. 3/9

REG. COMPL.

MAR. 9. 1999 3:01PM



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIALORIGINATING LOCATION: J. L. Greenwood well #13SOURCE: well workoverDISPOSAL LOCATION: SUNDANCE SERVICES INC.

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

I, the undersigned as the agent for Exxon U.S.A.
concur with the status of the waste from the subject site.

Name

Timothy R. Reep

Title/Agency

Operations Compliance Tech.

Address

H.C.R. 1 Box 236
Seminole, Texas 79360

Signature

Timothy R. Reep

Date

6-17-99

EXXON COMPANY, U.S.A.

POST OFFICE BOX 4358 • HOUSTON, TEXAS 77210-4358

HOUSTON PRODUCTION ORGANIZATION
REGULATORY COMPLIANCE

March 9, 1999

Ms. Donna Roach
Sundance Services Inc.
Eunice, new Mexico

Dear Ms. Roach:

We have approximately 5500 barrels of non-exempt oil and gas waste that was generated from a scheduled workover that was not performed. The waste is a mixture of 66 pounds of Halliburton Energy Services 'BE-5' Microbiocide chemical and approximately 5500 barrels of fresh water. The MSDS for this chemical indicates that this waste is non-hazardous, and a copy of the MSDS is attached for your information. The waste is currently stored at New Mexico 'S' State well #30 in 11 frac tanks. Chaparral Services in Eunice will be used to haul this material to Sundance Services Inc. for disposal.

Please process this request as soon as possible so we can release the rental tanks.

Sincerely,



Ralph King
Operations Compliance Specialist

C:\data\winword\state30.doc

A DIVISION OF EXXON CORPORATION

NO. 5788 P. 3/9

REG. COMPLI.

MAR. 9. 1999 3:01PM



BE-5 MICROBIOCIDES

PAGE 1

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 07-22-98
REVISED DATE 06-12-99

EMERGENCY TELEPHONE: 580/251-4689 OR 580/251-3569
AFTER HOURS: 580/251-3760

SECTION I - PRODUCT DESCRIPTION

CHEMICAL CODE: BE-5 MICROBIOCIDES PART NUMBER: 51600493
PKG QTY: 35 LB BOX APPLICATION: MICROBIOCIDES
SERVICE USED: FRACTURING

SECTION II - COMPONENT INFORMATION

COMPONENT	PERCENT	TLV	REL
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	1-10 %	0.1 MG/M3	NOT EST
2-METHYL-4-ISOTHIAZOLIN-3-ONE	1-10 %	NOT EST	NOT EST
MAGNESIUM CHLORIDE	1-10 %	NOT EST	NOT EST
DIATOMACEOUS EARTH	31-60 %	10 MG/M3 (TWG 6 MG/M3)	
SILICA, CRYSTALLINE - QUARTZ	1-10 %	0.1 MG/M3	0.1 MG/M3

SECTION III - PHYSICAL DATA

PROPERTY	MEASUREMENT
APPEARANCE	LIGHT GREEN TO YELLOW SOLID
ODOR	MILD
SPECIFIC GRAVITY (H2O=1)	1.720
BULK DENSITY	5.59 LB/CU.FT.
PH	NOT DETERMINED
SOLUBILITY IN WATER AT 20 DEG C. (GMS/100ML H2O)	DISPERSES
BIODEGRADABILITY	N/D
PERCENT VOLATILES	N/A
EVAPORATION RATE (BUTYL ACETATE=1)	N/A (EST)
VAPOR DENSITY	>1
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT (760 MMHG)	N/A
POOR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	N/D

SECTION IV - FIRE AND EXPLOSION DATA

MFPA (704) RATING:
HEALTH 3 FLAMMABILITY 1 REACTIVITY 0 SPECIAL NONE
FLASH POINT NONE
AUTOIGNITION TEMPERATURE ND
FLAMMABLE LIMITS (O2, PER CU. FT.) LOWER N/A UPPER N/A

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.

FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE TOXIC GASES.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO "NTP", IARC, OSHA, OR ACIGH.

PRODUCT TOXICITY DATA: NOT DETERMINED

PRODUCT TLV: NOT ESTABLISHED

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

CONTACT WILL PRODUCE SEVERE IRRITATION OR BURNS AND, IF NOT IMMEDIATELY REMOVED, MAY LEAD TO PERMANENT EYE DAMAGE.

SKIN:

CONTACT CAUSES SEVERE IRRITATION OR BURNS WITH POSSIBLE IN-DEPTH INJURY.

INHALATION:

MISTS, AEROSOLS OR VERY HIGH VAPOR CONCENTRATIONS WILL PRODUCE INTENSE EYE NOSE AND RESPIRATORY IRRITATION AND MAY RESULT IN LUNG DAMAGE. PROLONGED EXPOSURE MAY RESULT IN CHEMICAL PNEUMONITIS AND, IN EXTREME CASES, PULMONARY EDEMA (FILLING OF THE LUNGS WITH FLUIDS).

INGESTION:

CAUSES SEVERE IRRITATION OR BURNS TO THE MOUTH AND GASTROINTESTINAL TRACT. IN EXTREME CASES MAY CAUSE KIDNEY AND LIVER DAMAGE.

CHRONIC EFFECTS:

NO SPECIFIC INFORMATION IS AVAILABLE ON THE CHRONIC EFFECTS OF EXPOSURE.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS. BREATHING OF VAPOR AND/OR MISTS MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR ALLERGIC PULMONARY DISEASE.

----- EMERGENCIES AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION.

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.
PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL
ATTENTION.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF SULFUR AND NITROGEN AND HYDROGEN CHLORIDE

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

DIXE AND ABSORB SPILL USING HYPOCHLORITE SOLUTION IN AN INERT MATERIAL AND
TRANSFER TO A SUITABLE CONTAINER. FORMULATION: 8 LBS. CALCIUM HYPOCHLORITE
5 LBS. SODIUM HYDROXIDE AND 7 LBS. WATER. SODIUM HYDROXIDE MUST BE ADDED
TO MAINTAIN ALKALINITY AND PREVENT THE EVOLUTION OF CHLORINE GAS.

WASTE DISPOSAL METHOD:

GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA
SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

ORGANIC VAPOR CHEMICAL CARTRIDGE RESPIRATOR WITH A DUST-MIST FILTER.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM.

OTHER PROTECTIVE EQUIPMENT:

RUBBER APRON TO PREVENT DIRECT SKIN CONTACT.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING BE-S MICROBIOCIDAL

516.004930

DANGER:

MAY CAUSE SEVERE EYE AND SKIN BURNS.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

LABEL IN ACCORDANCE WITH FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE AC

REQUIREMENTS.

ERG REGISTRATION NUMBER: 2009-39-40153

ERG EST. NUMBER: 75962-7851

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM OXIDIZERS.

STORE IN A COOL WELL VENTILATED LOCATION.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

AVOID BREATHING VAPORS.

CONTAINER DISPOSITION:

TRIPLE RINSE, RESISTING RESIDUE AS PRODUCT. OFFER CONTAINER FOR RECYCLING OR RECONDITIONING, OR PURCHASE AND DISPOSE OF IN A SANITARY LANDFILL.

***** SECTION II - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

CORROSIVE SOLID, TOXIC, N.O.S. - 8 - UN2923 - II

(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

IATA SHIPPING DESCRIPTION:

CORROSIVE SOLID, TOXIC, N.O.S. - 8 (6.1) - UN2923 - II

(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

IMO SHIPPING DESCRIPTION:

CORROSIVE SOLID, TOXIC, N.O.S.

(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE) -

CLASS 8 - UN2923 - II

S 8-15 - HMG 760

CAN SHIPPING DESCRIPTION:

CORROSIVE SOLID, TOXIC, N.O.S. - CLASS 8 (6.1) - UN2923 - II

(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

ADR SHIPPING DESCRIPTION:

2923 CORROSIVE SOLID, TOXIC, N.O.S. - 8, ITEM 75 (H) - ADR

(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

***** SECTION III - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND (SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)
N/A

C. EPA - SARA TITLE III, CERCLA (EXTREMELY HAZARDOUS SUBSTANCES)
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS.

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

F. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CERCLA N/A EPC 372 ACOIN N/A NPR NE DRSM NE

F. EXTRACTION METAL AND TRACE COMPONENTS

ARSENIC:	IN LIQUID > 500 MC/L	SOLID > 500 MC/KG	NO
BARIUM:	IN LIQUID > 100 MC/L	SOLID > 10000 MC/KG	NO
CADMIUM:	IN LIQUID > 1 MC/L	SOLID > 100 MC/KG	NO
CHROMIUM(VI):	IN LIQUID > 5 MC/L	SOLID > 500 MC/KG	NO
CHROMIUM(III):	IN LIQUID > 250 MC/L	SOLID > 2500 MC/KG	NO
LEAD:	IN LIQUID > 1 MC/L	SOLID > 1000 MC/KG	NO
MERCURY:	IN LIQUID > 0.1 MC/L	SOLID > 2000 MC/KG	NO
SELENIUM:	IN LIQUID > 1 MC/L	SOLID > 100 MC/KG	NO
SILVER:	IN LIQUID > 1 MC/L	SOLID > 500 MC/KG	NO
ANTIMONY:	IN LIQUID > 1 MC/L	SOLID > 500 MC/KG	NO
BERYLLIUM:	IN LIQUID > 0.1 MC/L	SOLID > 75 MC/KG	NO
COBALT:	IN LIQUID > 1 MC/L	SOLID > 8000 MC/KG	NO
COPPER:	IN LIQUID > 1 MC/L	SOLID > 2500 MC/KG	NO
FLUORIDE:	IN LIQUID > 1 MC/L	SOLID > 18000 MC/KG	NO
MOLYBDENUM:	IN LIQUID > 1 MC/L	SOLID > 3500 MC/KG	NO
NICKEL:	IN LIQUID > 1 MC/L	SOLID > 2000 MC/KG	NO
THALLIUM:	IN LIQUID > 1 MC/L	SOLID > 700 MC/KG	NO
VANADIUM:	IN LIQUID > 1 MC/L	SOLID > 2400 MC/KG	NO
ZINC:	IN LIQUID > 1 MC/L	SOLID > 5000 MC/KG	NO
CYANIDE:	IN LIQUID > 1 MC/L	SOLID > 250 MC/KG	NO
H2S:	IN LIQUID > 1 MC/L	SOLID > 300 MC/KG	NO
ORGANO-TIN:	IN LIQUID > 1 MC/L	SOLID > 100 MC/L	NOT EVALUATED
ORGANO-PHOS:	IN LIQUID > 1 MC/L	SOLID > 100 MC/L	NOT EVALUATED
TIN:	IN LIQUID > 1 MC/L	SOLID > 100 MC/L	NOT EVALUATED
PERSISTENT ORGANO-HALOGENS:	IN LIQUID > 1 MC/L	SOLID > 100 MC/L	NOT EVALUATED

G. OTHER COMPONENTS

CONTAINS BENZENE	NO
CONTAINS TOLUENE	NO
CONTAINS XYLENE	NO
REPORTABLE SPILL QUANTITY FOR BENZENE, TOLUENE, XYLENE	NOT APPLICABLE

H. EPA - RCRA (HAZARDOUS WASTE) 26 CFR 261

IF PRODUCT BECOMES A WASTE IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE

I. UNITED KINGDOM - TOX (CHEMICAL NOTIFICATION SCHEME)

TOXICITY CATEGORY NOT EVALUATED

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051 000000

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Facility
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter Key Energy
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231	18. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 5801 Lovington	Hwy. Hobbs, NM 88240
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Halliburton's Hobbs Facility. This waste is generated by the washing of trucks. I have included a certificate of waste and chain of custody Sundance would like approval to accept this material into our Parabo Facility.

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna Roach TITLE: OFFICE MGR DATE: 8-16-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Sp. DATE: 8-23-99
APPROVED BY: Phyllis J. Kelly TITLE: Environmental Geologist DATE: 8/25/99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Halliburton Energy ServicesADDRESS 5801 Lovington Hwy, Hobbs NM 88240GENERATING SITE SameCOUNTY Lea STATE NMTYPE OF WASTE Washrack GritESTIMATED VOLUME ~~200 Bbls~~ 200 BblsGENERATING PROCESS Washing of oilfield
equipment returning from locations.REMARKS —NMOCD FACILITY SundanceTRUCKING COMPANY Key Energy

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Scott Nelson

SIGNATURE

NAME Scott Nelson

PRINTED

ADDRESS 5801 Lovington HwyHobbs NM 88240DATE 8.13.99

15053932476

CARDINAL LABS

671 P02

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

**ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 352-7062**

Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM

Sampling Date: 11/09/98
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

REACTIVITY

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

ANALYSIS DATE:		11/10/98	11/10/98	11/09/98	11/09/98
H3918-1	WASHRACK	Not reactive	Not reactive	7.49	Nonflammable
	GRIT				
Quality Control		NR	NR	6.87	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	98.6	NR
Relative Percent Difference		NR	NR	0.4	NR

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

Chemist

Deke

H3918-4.XLS

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**ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5901 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062**

Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM
Lab Number: H3918-1
Sample ID: WASHRACK GRIT

Analysis Date: 11/10/98
Sampling Date: 11/09/98
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result	Method	QC	% Recov.	True Value
		#	Blank			QC
Pyridine	6.00	<0.005	<0.005	0.014	28	0.050
1,4-Dichlorobenzene	7.50	<0.005	<0.005	0.038	78	0.050
o-Cresol	200	<0.005	<0.005	0.039	68	0.050
m, p-Cresol	200	<0.005	<0.005	0.038	72	0.050
Hexachloroethane	3.00	<0.005	<0.005	0.034	66	0.050
Nitrobenzene	2.00	<0.005	<0.005	0.047	84	0.050
Hexachloro-1,3-butadiene	0.500	<0.005	<0.005	0.037	74	0.050
2,4,6-Trichlorophenol	2.00	<0.005	<0.005	0.042	84	0.050
2,4,6-Trichlorophenol	400	<0.005	<0.005	0.042	84	0.050
2,4-Dinitrotoluene	0.130	<0.005	<0.005	0.048	98	0.050
Hexachlorobenzene	0.130	<0.005	<0.005	0.048	98	0.050
Pentachlorophenol	100	<0.005	<0.005	0.039	78	0.050

% RECOVERY

Fluorophenol	22
Phenol-d5	17
Nitrobenzene-d5	58
2-Fluorobiphenyl	57
2,4,6-Trichlorophenol	43
Terphenyl-d14	88

METHODS: EPA SW 846-8270, 1311, 3510

Burgess J. Al Cooke
Burgess J. Al Cooke, P.E.

11/12/98
Date

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**ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES**
**ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062**
**Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM
Lab Number: H3918-1
Sample ID: WASHRACK GRIT**
**Analysis Date: 11/10/98
Sampling Date: 11/09/98
Sample Type: OTHER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC**

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3918-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.088	88	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.085	85	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.082	82	0.100
Chloroform	8.0	<0.005	<0.005	0.092	92	0.100
1,2-Dichloroethane	0.6	<0.005	<0.005	0.094	94	0.100
Benzene	0.5	<0.005	<0.005	0.082	82	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.088	88	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.114	114	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.085	85	0.100
Chlorobenzene	100	<0.005	<0.005	0.092	92	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.088	88	0.100

% RECOVERY

Dibromofluoromethane	108
Toluene-d8	118
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Coock, Ph.D.
Burgess J. A. Coock, Ph.D.

11/12/98
Date

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ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062

Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM

Sampling Date: 11/09/98
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		11/11/98	11/10/98	11/11/98	11/10/98	11/11/98	11/10/98	11/11/98	11/11/98
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H3918-1	WASHRACK	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	GRIT								
Quality Control		0.049	1.117	21.93	3.791	4.965	5.070	0.0095	0.059
True Value QC		0.050	1.000	20.00	4.000	5.000	5.000	0.0100	0.050
% Recovery		98	112	110	85	98	101	85	116
Relative Standard Deviation		7.270	0.30	4.07	1.62	1.04	7.97	6.60	0.88
METHODS: EPA 1311, 600/4-91A		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Burgess R. Adams
Chemist

11/12/98
Date

H3918-3.XLS

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Koch Pipeline
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Crouch Station
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter unknown
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) S18 T18S R36E	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are for Koch Pipeline's Crouch Station. We have once before accepted this material into our facility on Jan/98. This waste is generated from moisture pulled from the vadose zone by the vacuum system and collected in a settling tank on-site. This waste stream has not changed. I have included a certificate of waste status and analytical results from the source of this waste. Sundance Services, Inc. would like approval to accept this material into our Parabo disposal facility.

Estimated Volume 4 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 8-11-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Env. Eng. Specialist DATE: 8-18-99
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 8-23-99

Albany, NM 88241-1980
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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

Originated:

Oil Conservation Division

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

Att: BILL OLSON
M. KIBLING

Submit On
Plus 1
to appro
District I

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator KOCH PIPELINE
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site CROUCH STAT
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter UNKNOWN
3. Address of Facility Operator P.O. BOX 1737 EUNICE, NM 88231 State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 518 T198 R36E	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is for Koch Pipeline's Crouch Station soil vapor extraction system. This waste is generated from moisture pulled from the vadose zone by the vacuum system and collected in a settling tank on-site. The following analyticals were ran on November 1, 1996 and show the source of this waste to be non-exempt non-hazardous. We would like to submit this for a knowledge of process to dispose of this fluid. Substance Service would like approval to accept this material into our disposal facility.

Estimated Volume 2 barrels cy Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE: Donna L. Roach TITLE: OFFICE MANAGER DATE: 1-06-98
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Morty J. Kibling TITLE: Envr Engr DATE: 1/13/98
APPROVED BY: Morty J. Kibling TITLE: Envr Ecologist DATE: 1/15/98

Safety & Environmental Solutions, Inc.

December 22, 1997

Sundance Services
P.O. Box 1737
Eunice, New Mexico 88231

Dear Sirs:

This letter is to explain the classification of the water produced from Koch Pipeline's Crouch Station soil vapor extraction system. The soil vapor extraction system was installed to remediate the vadose zone under a crude oil spill in 1996. The water is generated from moisture pulled from the vadose zone by the vacuum system and collected in a settling tank on-site. On November 1, 1996, a composite soil sample was submitted to Cardinal Laboratories in Hobbs, New Mexico for RCI and TCLP analysis. The results of the soil analysis were non-hazardous and by knowledge of process the water pulled from this zone is classified as **non-exempt, non-hazardous**. I have enclosed the test results for your files.

We request that we use your Parabo Facility to dispose of this water. If I may be of further service or answer any questions, please call.

Sincerely,



Bob Allen REM, CET, CES
President

BA/nh

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: Koch Pipeline Crouch Station

SOURCE: Condensed Water from Soil Vapor Extraction System

DISPOSAL LOCATION: Parabo Facility

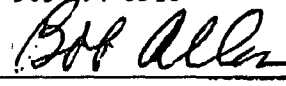
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 2613.

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

Name: Bob Allen

Title/Agency: Safety & Environmental Solutions, Inc.

Address: 703 East Clinton Suite 103
Hobbs, New Mexico 88240
505-397-0510

Signature 

Date: 8/9/99



PHONE (815) 673-7001 • 2111 BEECHWOOD • ALEXANDRIA, VA 22304

PHONE (505) 393-2329 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 326-4689 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

PHONE (806) 796-2800 • 5262 34th ST. • LUBBOCK, TX 79407

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON
HOBBS, NM 88240

Receiving Date: 11/01/96
Reporting Date: 11/04/96
Project Number: NOT GIVEN
Project Name: CROUCH STATION (KOCH)
Project Location: SOUTH OF LOVINGTON, NM

FAX TO:

Sampling Date: 11/01/96
Sample Type: SOIL
Sample Condition: COOL, INTACT
Sample Received By: BC
Analyzed By: GP

LAB NUMBER	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY
ANALYSIS DATE:		10/5/96	10/5/96	10/4/96	10/4/96
H2695-15	RANDOM COMP.	<5	<5	7.40	Nonflammable
	SPOILS PILE				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Accuracy		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.6	NR

METHOD: EPA SW 846-7.3, 7.2, 1010


Chemist

11/04/96
Date

DEC. 5.1997

9:53AM

KOCH PROPERTY ASSESS 3168288000

NO.203

P.4

CARDINAL LABORATORIES

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

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

PHONE (505) 326-4669 • 115 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

PHONE (505) 795-2800 • 5262 34TH ST. • LUBBOCK, TX 79407

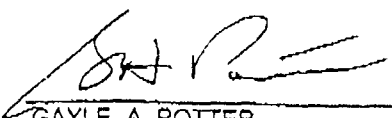
ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 EAST CLINTON
HOBBS, NEW MEXICO 88240
FAX TO: 505-393-4388

Receiving Date: 11/01/96
Reporting Date: 11/11/96
Project Number: NOT GIVEN
Project Name: CROUCH STATION (KOCH)
Project Location: SOUTH OF LOVINGTON, NM

Sampling Date: 11/01/96
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: LW & AK

TCLP METALS

LAB NUMBER SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:	11/6/96	11/6/96	11/6/96	11/6/96	11/6/96	11/6/96	11/6/96	11/6/96
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H2693-15 COMP. SPOILS PILE	<0.05	<0.05	0.70	<0.01	<0.05	0.16	<0.002	<0.05
Quality Control	2.450	4.750	4.750	4.650	4.440	2.500	0.0089	0.435
True Value QC	2.500	5.000	5.000	5.000	5.000	2.500	0.0100	0.500
% Accuracy	98	95	95	93	88	100	89	87
Relative Percent Difference	1	1	2	1	1	1	6	1
METHODS: EPA 1311, 600/4-91/	200.7	200.7	200.7	200.7	200.7	200.7	245.1	200.7


GAYLE A. POTTER
Chemist

11/11/96
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. ~~H2693-15~~ Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

ARDINAL LABORATORIES

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

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

PHONE (505) 326-4669 • 116 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

PHONE (806) 796-2900 • 5262 34th ST. • LUBBOCK, TX 79407

ANALYTICAL RESULTS FOR
 SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
 ATTN: DYKE BROWNING
 703 E. CLINTON
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 11/01/96
 Reporting Date: 11/06/96
 Project Number: NOT GIVEN
 Project Name: CROUCH STATION (KOCH)
 Project Location: SOUTH OF LOVINGTON, NM
 Sample ID: RANDOM COMPOSITE OF SPOILS PILE
 Lab Number: H2693-15

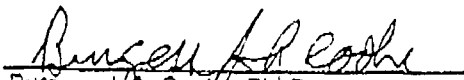
Analysis Date: 11/05/96
 Sampling Date: 11/01/96
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H2693-15	Method Blank	QC	True Value %IA	QC
Vinyl Chloride	0.20	<0.005	<0.005	0.085	85	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.005	<0.005	0.082	82	0.100
Chloroform	6.0	<0.005	<0.005	0.093	93	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.083	83	0.100
Benzene	0.5	<0.005	<0.005	0.082	82	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.082	82	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.088	88	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.105	105	0.100
Chlorobenzene	100	<0.005	<0.005	0.091	91	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.090	90	0.100

% RECOVERY

Dibromofluoromethane	104
Toluene-d8	98
Bromofluorobenzene	98

METHODS: EPA SW 846-8260


 Burgess J. A. Cooke, Ph. D.

11/6/96
 Date

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

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

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

PHONE (505) 326-4668 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

PHONE (505) 795-2800 • 5262 34th ST. • LUGBOCK, TX 79407

ARDINAL
LABORATORIES

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON
HOBBS, NM 88240
FAX TO:

Receiving Date: 11/01/96
Reporting Date: 11/04/96
Project Number: NOT GIVEN
Project Name: CROUCH STATION (KOCH)
Project Location: SOUTH OF LOVINGTON, NM
Sample ID: RANDOM COMPOSITE OF SPOILS PILE
Lab Number: H2693-15

Analysis Date: 11/02/96
Sampling Date: 11/01/96
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H2693-15	Method Blank	QC	True Value %IA	QC
Pyridine	5.00	<0.008	<0.002	0.049	98	0.050
1,4-Dichlorobenzene	7.50	<0.008	<0.002	0.049	98	0.050
o-Cresol	200	<0.008	<0.002	0.052	104	0.050
m, p-Cresol	200	<0.008	<0.002	0.053	106	0.050
Hexachloroethane	3.00	<0.008	<0.002	0.050	100	0.050
Nitrobenzene	2.00	<0.008	<0.002	0.049	98	0.050
Hexachloro-1,3-butadiene	0.500	<0.008	<0.002	0.048	96	0.050
2,4,6-Trichlorophenol	2.00	<0.008	<0.002	0.049	98	0.050
2,4,5-Trichlorophenol	400	<0.008	<0.002	0.050	100	0.050
2,4-Dinitrotoluene	0.130	<0.008	<0.002	0.051	102	0.050
Hexachlorobenzene	0.130	<0.008	<0.002	0.050	100	0.050
Pentachlorophenol	100	<0.008	<0.002	0.048	96	0.050

% RECOVERY

Fluorophenol	72
Phenol-d5	69
Nitrobenzene-d5	89
2-Fluorobiphenyl	95
2,4,6-Tribromophenol	87
Terphenyl-d14	103

METHODS: EPA SW 846-8270

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

11/04/96
Date

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

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

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

RECEIVED

AUG 11 1999

Form C-13
Originated 8/8/9
Submit Origin:
Plus 1 Cop
to appropriate
District Office

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Andrews Facility
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter Halliburton
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231	18. State Texas
7. Location of Material (Street Address or ULSTR) 7th and Mustang Drive Andrews Texas 79714	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Halliburton's Andrews facility. This waste is generated by the washing of equipment when returned from the field. I have included a certificate of waste status and chain of custody. Sundance would like approval to accept this material into our Parabo Facility.

Estimated Volume 4 drums cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 8-9-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)
APPROVED BY: Donna Williams TITLE: Environmental Eng. Specialist DATE: 8-9-99
APPROVED BY: Matthew J. Kemp TITLE: Environmental Biologist DATE: 8-11-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Dresser Oil toolsADDRESS 7th : Mustang Dr. Andrews, TX 79714GENERATING SITE SameCOUNTY _____ STATE TXTYPE OF WASTE WashRack gritESTIMATED VOLUME 3 or 4 DrumsGENERATING PROCESS washing of tools from
downhole.REMARKS —NMOCD FACILITY SundanceTRUCKING COMPANY Halliburton Energy Services, 5801 Louington Hwy,
Hobbs, NM 88240

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Scott Nelson

SIGNATURE

NAME Scott Nelson

PRINTED

ADDRESS 5801 Louington HwyHobbs, NM 88240DATE 8-9-99

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON
ATTN: MR. STEVE BAILEY
5801 LOVINGTON HWY.
HOBBS, NEW MEXICO 88240
FAX: 505-392-7062

Sample Type: Sludge
Sample Condition: Intact/loose
Project #: Dresser Oil Tool
Project Name: Waste Disposal
Project Location: 1400 Mustang - Andrews, TX.

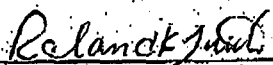
Sampling Date: 07/22/99
Receiving Date: 07/22/99
Analysis Date: 07/26/99

ELT#	FIELD CODE	TPH (mg/kg)
18728	Wash Rack	557000

QUALITY CONTROL
TRUE VALUE
%PRECISION
BLANK

468
470
100
<10

Methods: EPA 41&1.


Roland K. Tuttle

8-4-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON
ATTN: MR. STEVE BAILEY
5801 LOVINGTON HWY.
HOBBS, NEW MEXICO 88240
FAX: 505-392-7062

Sample Type: Sludge
Sample Condition: Intact/Iced
Project #: Dresser Oil Tool
Project Name: Waste Disposal
Project Location: 1400 Mustang - Andrews, TX
Field Code: Wash Pack

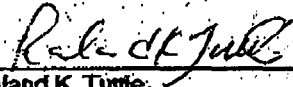
Sampling Date: 07/22/99
Receiving Date: 07/22/99
Extraction Date: 07/23/99
Analysis Date: 08/02/99

TCLP SEMIVOLATILE ORGANICS (mg/L)	REG. LIMIT	REPORT LIMIT	ELT# 18728	%EA
Cresols	200	<0.01	ND	88
1,4-Dichlorobenzene	7.5	<0.01	ND	82
2,4-Dinitrotoluene	0.13	<0.01	ND	88
Hexachlorobenzene	0.13	<0.01	ND	42
Hexachlor-1,3-butadien	0.5	<0.01	ND	88
Hexachloroethane	3.0	<0.01	ND	90
Nitrobenzene	2.0	<0.01	ND	90
Pentachlorophenol	100	<0.01	ND	78
Pyridine	5.0	<0.01	ND	18
2,4,5-Trichlorophenol	400	<0.01	ND	86
2,4,6-Trichlorophenol	2.0	<0.01	ND	86

ND= NOT DETECTED, < REPORTING LIMIT
SYSTEM MONITORING COMPOUNDS

	% Recovery
2-Fluorophenol	12
Phenol-d5	40
Nitrobenzene-d5	58
2-Fluorobiphenyl	64
2,4,6-Tribromophenol	92
Terphenyl-d14	36

Method: SW 846-8270.1311


Roland K. Tuttle

2-4-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON
ATTN: MR. STEVE BAILEY
5801 LOVINGTON HWY.
HOBBS, NEW MEXICO 88240
FAX: 505-392-7062

Sample Type: Sludge
Sample Condition: Intact/iced
Project #: Dresser Oil Tool
Project Name: Waste Disposal
Project Location: 1400 Mustang - Andrews, TX.

Sampling Date: 07/22/99
Receiving Date: 07/22/99
Extraction Date: 07/23/99
Analysis Date: 07/29/99

TCLP METALS (mg/L)

ELT#	Field Code	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
	EPA LIMIT	5.00	5.00	100.0	1.00	5.00	0.20	5.00	1.00
18728	Wash Rack	0.02	<0.002	<0.50	0.023	0.12	<0.002	0.17	<0.002

REPORTING LIMIT	0.01	0.002	0.50	0.010	0.05	0.002	0.10	0.002
% INSTRUMENT ACCURACY	102	103	102	100	97	98	96	100
% EXTRACTION ACCURACY	95	111	114	101	26	84	100	45

METHODS: EPA SW 846-1311, 7760, 7080, 7131, 7190, 7471, 7420, 7741

Roland K. Tuttle
Roland K. Tuttle

8-4-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON
ATTN: MR. STEVE BAILEY
5801 LOVINGTON HWY.
HOBBS, NEW MEXICO 88240
FAX: 505-392-7062

Sample Type: Sludge
Sample Condition: Intact/Iced
Project #: Dresser Oil Tool
Project Name: Waste Disposal
Project Location: 1400 Mustang - Andrews, TX

Sampling Date: 07/22/99
Receiving Date: 07/22/99
Analysis Date: 07/28/99
Field Code: Wash Rack

TCLP VOLATILES (mg/L)	SAMPLE 18728	ENERGY SVCS PQL	BLANK	%EA	%DEV
1,1-Dichloroethene	ND	0.001	ND	96	14.9
2-Butanone	ND	0.010	ND		4.4
Chloroform	ND	0.001	ND		16.3
Benzene	ND	0.001	ND	110	1.1
1,2-Dichloroethane	ND	0.001	ND		21.1
Vinyl Chloride	ND	0.001	ND		3.2
Carbon Tetrachloride	ND	0.001	ND		13.9
Trichloroethene	ND	0.001	ND	98	12.9
Tetrachloroethene	ND	0.001	ND		14.0
Chlorobenzene	ND	0.001	ND	109	0.2
1,4-Dichlorobenzene	ND	0.001	ND		4.5

SYSTEM MONITORING COMPOUNDS

% RECOVERY

dibromofluoromethane	103
toluene-d8	94
4-bromofluorobenzene	98

ND = < PQL

PQL = PRACTICAL QUANTITATION LIMIT

Methods: EPA SW 846-8240, 1311

Roland K. Tuttle
Roland K. Tuttle

8-4-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON
ATTN: MR. STEVE BAILEY
5801 LOVINGTON HWY.
HOBBS, NEW MEXICO 88240
FAX: 505-392-7062

Sample Type: Sludge
Sample Condition: Intact/loose
Project #: Dresser Oil Tool
Project Name: Waste Disposal
Project Location: 1400 Mustang - Andrews, TX

Sampling Date: 07/22/99
Receiving Date: 07/22/99
Analysis Date: See below

ELT#	Field Code	REACTIVITY		CORROSIVITY	IGNITABILITY
		H2S (mg/kg)	CN- (mg/kg)	(S.U.) NON-CORROSIVE	
18728	Wash Rack	<20.0	<2.0	Non Corrosive 6.90	>200 deg F

ANALYSIS DATE

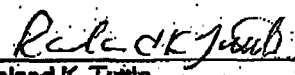
7/28/99

7/28/99

7/27/99

7/27/99

METHODS: EPA SW-846-9045, 1010M


Roland K. Tuttle

8-4-99
Date

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

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

Form C-13
Originated 8/84

RECEIVED

OCT 04 1999

Submit Origin
Plus 1 Copy
to appropriate
District Office

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Snyder TEXas
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter SESI
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State Texas	
7. Location of Material (Street Address or ULSTR) 3687 N. Farm Road 1611	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following MSDS is for Halliburton's Snyder Facility. This waste was generated by mixing of chemicals for job and the job was cancelled. This mixture is sodium silicate. I have attached a certificate of waste status and texas waste code listing. This type of waste has been approved once before from their Andrews Facility. Sundance would like approval to accept this into our Parabo Facility.

Estimated Volume 10 tons cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 8-25-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 9-29-99
APPROVED BY: Wendy J. Kief TITLE: Enviro.ologist DATE: 10/4/99

CERTIFICATE OF WASTE STATUS

EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: Halliburton Energy ServicesSOURCE: Sodium SilicateDISPOSAL LOCATION: Sundance Services

As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR Part 261, Subparts C & D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste", pursuant to the provisions of 40 CFR, Section 261.3 (b).

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

Name W. Dee WhatleyTitle Operations ManagerAddress 703 E. Clinton Suite 103
Hobbs, NMSignature W. D. WhatleyDate 8-25-99

Halliburton Energy Services
3687 N. Farm Rd 1611
Snyder, TX

ID # 34106
EPA TX # TXD9887999901

1 of 3

SECTION 7
HAZARDOUS OR INDUSTRIAL WASTE STREAM
NOTIFICATION FORM (THRC-0002)

All information is required for a complete notification, unless otherwise indicated. Refer to the instructions accompanying this form before you begin filling out the form.

Halliburton Energy Services
 South Odessa Hwy
 Andrews, TX

BWR #34114

COMPANY NAME: _____

1. Sequence Number. 2. Form Code. 3. Classification.

If this is a Class 3 waste, all supporting information, documentation, and rationale must be attached to this notification.

4. Texas Waste Code

5. Description of Waste/Generating Process/Date of Initial Generation.

INORGANIC SOLID - Discarding off-spec material

6. Origin Codes. Primary Origin Code:

Other Applicable Origin Codes:

- | | | | |
|--------------------------------------|---------------------------|--------------------------------------|-----------------------------------|
| 1 Onsite Routine Generation | 2 Spill Cleanup | 3 From nonhazardous waste management | 4 From hazardous waste management |
| 5 Received/no recycling or treatment | 6 Publicly funded cleanup | 7 Corrective Action; closure | |

5, 6, and 7 can only be identified as Primary Origin Codes. If you selected 5, 6, or 7 as the Primary Origin Code, do not list any other origin codes.

JUN. 15. 1999 11:33AM

SS/HSE TSDF/DUNCAN

Halliburton Energy Services
South Ocean Hwy
Andrews, TX

SWR #34114

NO. 987

P. 3/4

COMPANY NAME: _____

2 of 3

7. Waste Management Location.

Answer both questions:

a. Is this waste shipped or managed off-site?

☒

Yes

☐

No

b. Is this waste stored or otherwise managed on-site?

☒

Yes

☐

No

8. New Chemical Substances. (Answer for Class 2 or Class 3 wastes only) Is this a Class 2 or Class 3 waste generated from the production of a new chemical substance?

☐

Yes

☒

No

If YES, all supporting information, documentation and rationale must be submitted with this notification.

9. Company Waste ID. (Optional) _____

QUESTIONS 10-15 PERTAIN TO HAZARDOUS WASTE ONLY.

10. EPA Hazardous Waste Numbers.

(Continue on a separate page if necessary.)

11. SIC Codes. (See attached list & instructions.)

Primary SIC Code

Other Applicable Codes

(Continue on separate page if necessary.)

JUN.15.1999 11:33AM

SS/HSE TSDF/DUNCAN
Hillburton Energy Services
South Odessa Hwy
Andrews, TX

SWM #34114

NO. 987

P. 4/4

COMPANY NAME:

3 of 3

12. Source Codes. (See attached list & instructions.)

Primary Source Code A Other Applicable Codes A , A , A A , A , A

(Continue on separate page if necessary)

13. Mixed Radioactive Waste. ☐ Yes ☒ No

14. Measurement Points for determining the quantity of the waste to be reported on the annual report.

Primary Measurement Point Code Other Applicable Codes ,

15. System Types. (See attached list & instructions.) Skip this, unless you selected #4 as the Primary Origin Code in response to Question 6.

Primary System Type M Other Applicable Codes M , M , M

Waste Codes

Lochek



- 10112071 Liquid

- 10243161 Solid

SODIUM SILICATE - BULK

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

PAGE 1

DATE: 07-22-98

REVISED DATE 01-17-99

EMERGENCY TELEPHONE: 580/251-4689 OR 580/251-1564

AFTER HOURS: 580/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: SODIUM SILICATE - BULK
 PKG QTY: CARGO TANK APPLICATION: RESIN
 SERVICE USED: WATER & SAND, FRACTURING

PART NUMBER: 41510-1

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT+ + + + +	PERCENT	TTV
SODIUM SILICATE	31-60 %	C 2 MS/YR 2 M/HR

***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
APPEARANCE	CLEAR COLORLESS TO HAZY LIQUID
ODOR	NONE TO SLIGHTLY SOAPY
SPECIFIC GRAVITY (H2O=1)	1.400
BULK DENSITY	11.66 LB/GAL
PH	11.3
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	COMPLETE
BIODEGRADABILITY	SLOWLY
PERCENT VOLATILES	N/D
EVAPORATION RATE (BUTYL ACETATE=1)	N/D
VAPOR DENSITY	N/D
VAPOR PRESSURE (MMHG)	156.00
BOILING POINT (760 MMHG)	/213 F / 100 C
POUR POINT	/A35 F / 1 C
FREEZE POINT	/A30 F / -1 C
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NEPA (704) RATING:

HEALTH 1	FLAMMABILITY 0	REACTIVITY 0	SPECIAL HAZARD
FLASH POINT	NONE		
AUTOIGNITION TEMPERATURE	ND	ND	
FLAMMABLE LIMITS (% BY VOLUME)	LOWER ND	UPPER ND	

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES:

FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

PN: NIS1061 0

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTACT CAUSES BURNS TO EYES AND SKIN.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: IRR SKN-HMN 250 MG/24H SEVERE
IRR SKN-RBT 250 MG/24H SEVERE
TOX ORL-RAT LD50: 2000-3000 MG/KG
AQU TLM96: 2320 PPM

PRODUCT TLV: C 2MG/M3 (AS NAOH)

----- EFFECTS OF EXPOSURE:

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDENT ON
THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

SKIN:

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDENT ON
THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

INHALATION:

VAPOR, MIST OR SPRAY CAUSE SEVERE IRRITATION OF UPPER RESPIRATORY TRACT.

INGESTION:

CORROSIVE TO MOUTH, ESOPHAGUS, AND STOMACH UPON INGESTION.

CHRONIC EFFECTS:

NO CHRONIC EFFECTS EXPECTED.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY EXACERBATE
EXISTING DERMATITIS.

----- EMERGENCY AND FIRST AID PROCEDURES:

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK
PROMPT MEDICAL ATTENTION.

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE
REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. DO NOT
CLOTHING BEFORE REUSE.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION,
PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, OXYGEN SHOULD
SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER OR FLUID.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK PROMPT
ATTENTION.

PN: NIS1061 0

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG ACIDS.

AMPHOTERIC METALS SUCH AS ALUMINUM, MAGNESIUM, LEAD, TIN, ZINC, AND COPPER WILL REACT WITH STRONG ACIDS AND GENERATE AND LIBERATE FLAMMABLE HYDROGEN GAS.

HAZARDOUS DECOMPOSITION PRODUCTS:

CONTACT WITH ACID CAUSES EVOLUTION OF HEAT.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AND STOP LEAK WHEN POSSIBLE. CONTAIN SPILL AND NEUTRALIZE TO A PH OF 6-8. SCOOP UP AND REMOVE.

WASTE DISPOSAL METHOD:

IF MATERIAL HAS BEEN COMPLETELY NEUTRALIZED, GET APPROVAL FROM LOCAL HEALTH DEPARTMENT, LANDFILL OPERATOR AND TRANSPORT TO A SANITARY LANDFILL. IF NOT NEUTRALIZED, TRANSPORT FROM HAZARDOUS WASTE DISPOSAL FACILITY, AUTHORIZED UNDER FEDERAL, STATE, OR LOCAL REGULATIONS OR STATE EQUIVALENT. SHIP ABSORBED MATERIAL TO SITE.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION.

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND FIRST AID KIT.

OTHER PROTECTIVE EQUIPMENT:

WEAR FULL PROTECTIVE SUIT WHEN SKIN CONTACT IS POSSIBLE.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING SODIUM SILICATE - BULK

DANGER!

MAY CAUSE SEVERE IRRITATION OF THE RESPIRATORY SYSTEM.

MAY CAUSE SEVERE EYE AND SKIN BURNS.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VI.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM STRONG ACIDS.

STORE IN A COOL WELL VENTILATED LOCATION.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

AVOID BREATHING VAPORS.

PN: NIS1061 0

CONTAINER DISPOSITION:

IF CONTAINER RETAINS PRODUCT RESIDUES, LABEL PRECAUTIONS MUST BE OBSERVED.
STORE CONTAINER WITH CLOSURES IN PLACE. OFFER EMPTY CONTAINER TO RECONDITION-
TIONOR OR RECYCLER FOR RECONDITIONING OR DISPOSAL. ENSURE RECONDITIONER
OR RECYCLER IS AWARE OF THE PROPERTIES OF THE CONTENTS.

SPECIAL PRECAUTIONS:

DO NOT SPREAD SPILLED MATERIAL WITH WATER.

DO NOT SPREAD SPILLED MATERIAL WITH WATER.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:
NOT RESTRICTED

IATA SHIPPING DESCRIPTION:
NOT RESTRICTED

IMO SHIPPING DESCRIPTION:
NOT RESTRICTED

CAN SHIPPING DESCRIPTION:
NOT RESTRICTED

ADR SHIPPING DESCRIPTION:
NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE):
CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITIES)
N/A - TRANSPORTATION INFORMATION

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA NE EEC N/D ACORN N/D NPR NE

F. EXTRACTION METAL AND TRACE CONTENTS

ARSENIC:	IN LIQUID > 5 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
BARIUM:	IN LIQUID > 100 MG/L,	SOLID > 10000 MG/KG	NOT EVALUATED
CADIUM:	IN LIQUID > 1 MG/L,	SOLID > 100 MG/KG	NOT EVALUATED
CHROMIUM(VI):	IN LIQUID > 5 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
CHROMIUM(III):	IN LIQUID > 560 MG/L,	SOLID > 2500 MG/KG	NOT EVALUATED
LEAD:	IN LIQUID > 5 MG/L,	SOLID > 1000 MG/KG	NOT EVALUATED
MERCURY:	IN LIQUID > 0.2 MG/L,	SOLID > 2000 MG/KG	NOT EVALUATED
SELENIUM:	IN LIQUID > 1 MG/L,	SOLID > 100 MG/KG	NOT EVALUATED
SILVER:	IN LIQUID > 5 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
ANTIMONY:	IN LIQUID > 15 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED

DELETED INFORMATION

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DELETED INFORMATION

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DELETED INFORMATION

PN: NIS1061 0

BERYLLIUM:	IN LIQUID > 0.75 MG/L, SOLID > 75 MG/KG	NOT EVALUATED
COBALT:	IN LIQUID > 80 MG/L, SOLID > 8000 MG/KG	NOT EVALUATED
COPPER:	IN LIQUID > 25 MG/L, SOLID > 2500 MG/KG	NOT EVALUATED
FLUORIDE:	IN LIQUID > 180 MG/L, SOLID > 18000 MG/KG	NOT EVALUATED
MOLYBDENUM:	IN LIQUID > 350 MG/L, SOLID > 3500 MG/KG	NOT EVALUATED
NICKEL:	IN LIQUID > 20 MG/L, SOLID > 2000 MG/KG	NOT EVALUATED
THALLIUM:	IN LIQUID > 7 MG/L, SOLID > 700 MG/KG	NOT EVALUATED

NICKEL:	IN LIQUID > 20 MG/L,	SOLID > 2000 MG/KG	NOT EVALUATED
THALLIUM:	IN LIQUID > 7 MG/L,	SOLID > 700 MG/KG	NOT EVALUATED
VANADIUM:	IN LIQUID > 24 MG/L,	SOLID > 2400 MG/KG	NOT EVALUATED
ZINC:	IN LIQUID > 250 MG/L,	SOLID > 5000 MG/KG	NOT EVALUATED
CYANIDE:	IN LIQUID > 250 MG/L,	SOLID > 250 MG/KG	NOT EVALUATED
H ₂ S:	IN LIQUID > 500 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
ORGANO-TIN:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
ORGANO-PHOS:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
TIN:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
PERSISTENT ORGANO-HALOGENS:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED

- G. OTHER COMPONENTS
CONTAINS BENZENE
CONTAINS TOLUENE
CONTAINS XYLENE

REPORTABLE SPILL QUANTITY FOR BENZENE, TOLUENE, XYLENE

- H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A
HAZARDOUS WASTE

- I. UNITED KINGDOM - DOE (CHEMICAL NOTIFICATION SCHEME)
TOXICITY CATEGORY

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED ON THE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE USE OF THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.



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

Energy Minerals and Natural Resources Department

Oil Conservation Division

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

RECEIVED

JUN 10 1999

Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON ENERGY
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site ANDREWS FACILITY
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter SAFETY ENVIRONMENTAL SOLUTIONS
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State TEXAS	
7. Location of Material (Street Address or ULSTR) S. Hwy 385 Andrews Texas 79714	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following MSDS is for Halliburton's Andrews Facility. This waste was generated by mixing of chemicals for job and job cancelled. This mixture is sodium silicone. I have attached a certificate of waste status and Texas waste code listing. The generator would like to receive a verbal approval as soon as possible. Sundance would like approval to accept this into our Parabo facility.

Wait For Copy of Texas Waste Code. myk 6-11-99

Received 6-15-99

Estimated Volume 10 tons cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: _____
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 6-8-99
APPROVED BY: Mortimer J. Ruby TITLE: Environmental Geologist DATE: 6-15-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Halliburton Energy Services
ADDRESS 5801 Livingston Hwy. Hobbs, NM 88240
GENERATING SITE S. Hwy 385, Andrews, TX
COUNTY _____ STATE TX

TYPE OF WASTE Solids
ESTIMATED VOLUME 10 TONS
GENERATING PROCESS Unused material in Storage tank

REMARKS _____

NMOCD FACILITY Sundance

TRUCKING COMPANY Safety Environmental Solutions

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT [Signature]

SIGNATURE

NAME Scott Nelson

PRINTED

ADDRESS 5801 Livingston Hwy

Hobbs NM 88240

DATE _____

Waste Codes

PAGE 1

DATE: 07-22-98

REVISED DATE 01-17-9

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

EMERGENCY TELEPHONE: 580/251-4689 OR 580/251-3569
AFTER HOURS: 580/251-3760

SECTION I - PRODUCT DESCRIPTION

CHEMICAL CODE: SODIUM SILICATE - BULK
PKG QTY: CARGO TANK APPLICATION: RESIN
SERVICE USED: WATER & SAND FRACTURING

PART NUMBER: NIS1061

SECTION II - COMPONENT INFORMATION

COMPONENT	PERCENT	TLV	FEL
SODIUM SILICATE	31-60 %	C 2 MG/M3	2 MG/M3

SECTION III - PHYSICAL DATA

PROPERTY	MEASUREMENT
APPEARANCE	CLEAR COLORLESS TO HAZY LIQUID
ODOR	NONE TO SLIGHTLY SOAPY
SPECIFIC GRAVITY (H2O=1)	1.400
BULK DENSITY	11.66 LB/GAL
PH	11.3
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	COMPLETE
BIODEGRADABILITY	SLOWLY
PERCENT VOLATILES	N/D
EVAPORATION RATE (BUTYL ACETATE=1)	N/D
VAPOR DENSITY	N/D
VAPOR PRESSURE (MMHG)	156.00
BOILING POINT (760 MMHG)	/213 F / 100 C
POUR POINT	/A35 F / -1 C
FREEZE POINT	/A30 F / -1 C
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

SECTION IV - FIRE AND EXPLOSION DATA

NFPA (704) RATING:
HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 SPECIAL NONE
FLASH POINT NONE
AUTOIGNITION TEMPERATURE ND
FLAMMABLE LIMITS (% BY VOLUME) LOWER ND UPPER ND

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.
SPECIAL FIRE FIGHTING PROCEDURES:
FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING
APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CONTACT CAUSES BURNS TO EYES AND SKIN.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:
PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:
PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO "NTP, IARC, OSHA, OR, ACGH".

PRODUCT TOXICITY DATA: 1RR: SKN-HMN 250 MG/24H SEVERE
2RR: SKN-RBT 250 MG/24H SEVERE
TOM: ORL-RAT LD50: 2000-3000 MG/KG
ADD: TMS6: 2320 PPM

PRODUCT TLV: C 2MG/M3 (AS NAOH)

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION

EYE:

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDING ON
THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

SKIN:

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDING ON
THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

INHALATION:

VAPOR, MIST OR SPRAY CAUSE SEVERE IRRITATION OF UPPER RESPIRATORY SYSTEM.

INGESTION:

CORROSIVE TO MOUTH, ESOPHAGUS, AND STOMACH UPON INGESTION.

CHRONIC EFFECTS:

NO CHRONIC EFFECTS EXPECTED.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN
EXISTING DERMATITIS.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK
PROMPT MEDICAL ATTENTION.

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE
REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH
CLOTHING BEFORE REUSE.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION,
PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL
ATTENTION.

* * * * * SECTION VI - REACTIVITY DATA * * * * *

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG ACIDS.

AMPHOTERIC METALS SUCH AS ALUMINUM, MAGNESIUM, LEAD, TIN OR ZINC, WHICH MAY GENERATE AND LIBERATE FLAMMABLE HYDROGEN GAS.

HAZARDOUS DECOMPOSITION PRODUCTS:

CONTACT WITH ACID CAUSES EVOLUTION OF HEAT.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

* * * * * SECTION VII - SPILL OR LEAK PROCEDURES * * * * *

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AND STOP LEAK WHERE SAFE. CONTAIN AND NEUTRALIZE TO A PH OF 6-8. SCOOP UP AND REMOVE.

WASTE DISPOSAL METHOD:

IF MATERIAL HAS BEEN COMPLETELY NEUTRALIZED, GET APPROVAL FROM A SANITARY LANDFILL OPERATOR AND TRANSPORT TO A SANITARY LANDFILL. IF NOT GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL FACILITY, AUTHORIZED UNDER EPA/RCRA SUBTITLE OR STATE EQUIVALENT. SHIP ABSORBED MATERIAL TO SITE.

* * * * * SECTION VIII - SPECIAL PROTECTION INFORMATION * * * * *

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION.

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM.

OTHER PROTECTIVE EQUIPMENT:

WEAR FULL PROTECTIVE SUIT WHEN SKIN CONTACT IS POSSIBLE.

* * * * * SECTION IX - SPECIAL PRECAUTIONS * * * * *

PRECAUTIONARY LABELING SODIUM STILICATE - BULK

NIS.1061 0

DANGER:

MAY CAUSE SEVERE IRRITATION OF THE RESPIRATORY SYSTEM.

MAY CAUSE SEVERE EYE AND SKIN BURNS

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM STRONG ACIDS

STORE IN A COOL WELL VENTILATED LOCATION.

KEEP CONTAINER CLOSED WHEN NOT IN USE

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

AVOID BREATHING VAPORS.

CONTAINER DISPOSITION:

IF CONTAINER RETAINS PRODUCT RESIDUES, LABEL PRECAUTIONS MUST BE OBSERVED. STORE CONTAINER WITH CLOSURES IN PLACE. OFFER EMPTY CONTAINER TO RECONDITIONER OR RECYCLER FOR RECONDITIONING OR DISPOSAL. ENSURE RECONDITIONER OR RECYCLER IS AWARE OF THE PROPERTIES OF THE CONTENTS.

SPECIAL PRECAUTIONS:

DO NOT SPREAD SPILLED MATERIAL WITH WATER.

* * * * * SECTION VI - TRANSPORTATION INFORMATION * * * * *

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

IATA SHIPPING DESCRIPTION:

NOT RESTRICTED

IMO SHIPPING DESCRIPTION:

NOT RESTRICTED

CAN SHIPPING DESCRIPTION:

NOT RESTRICTED

ADR SHIPPING DESCRIPTION:

NOT RESTRICTED

* * * * * SECTION VII - ENVIRONMENTAL EVALUATION * * * * *

EPA SUPERFUND (SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

H. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)

N/A

C. EPA - SARA TITLE III, 40 CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA NE EPC N/D ACOIN N/D NPR NE DRSM NE

F. EXTRACTION METAL AND TRACE CONTENTS

ARSENIC:	IN LIQUID > 5 MG/L	SOLID > 500 MG/KG	NOT EVALUATED
BARIUM:	IN LIQUID > 100 MG/L	SOLID > 10000 MG/KG	NOT EVALUATED
CADIUM:	IN LIQUID > 1 MG/L	SOLID > 100 MG/KG	NOT EVALUATED
CHROMIUM(VI):	IN LIQUID > 0.1 MG/L	SOLID > 500 MG/KG	NOT EVALUATED
CHROMIUM(III):	IN LIQUID > 500 MG/L	SOLID > 2500 MG/KG	NOT EVALUATED
LEAD:	IN LIQUID > 5 MG/L	SOLID > 1000 MG/KG	NOT EVALUATED
MERCURY:	IN LIQUID > 0.2 MG/L	SOLID > 2000 MG/KG	NOT EVALUATED
SELENIUM:	IN LIQUID > 1 MG/L	SOLID > 100 MG/KG	NOT EVALUATED
SILVER:	IN LIQUID > 5 MG/L	SOLID > 500 MG/KG	NOT EVALUATED
ANTIMONY:	IN LIQUID > 15 MG/L	SOLID > 500 MG/KG	NOT EVALUATED

BERYLLIUM:	IN LIQUID > 0.75 MG/L, SOLID > 75 MG/KG	NOT EVALUATED
COBALT:	IN LIQUID > 80 MG/L, SOLID > 8000 MG/KG	NOT EVALUATED
COPPER:	IN LIQUID > 25 MG/L, SOLID > 2500 MG/KG	NOT EVALUATED
FLUORIDE:	IN LIQUID > 180 MG/L, SOLID > 18000 MG/KG	NOT EVALUATED
MOLYBDENUM:	IN LIQUID > 350 MG/L, SOLID > 3500 MG/KG	NOT EVALUATED
NICKEL:	IN LIQUID > 20 MG/L, SOLID > 2000 MG/KG	NOT EVALUATED
THALLIUM:	IN LIQUID > 7 MG/L, SOLID > 700 MG/KG	NOT EVALUATED
VANADIUM:	IN LIQUID > 24 MG/L, SOLID > 2400 MG/KG	NOT EVALUATED
ZINC:	IN LIQUID > 250 MG/L, SOLID > 5000 MG/KG	NOT EVALUATED
CYANIDE:	IN LIQUID > 250 MG/L, SOLID > 250 MG/KG	NOT EVALUATED
H ₂ S:	IN LIQUID > 500 MG/L, SOLID > 500 MG/KG	NOT EVALUATED
ORGANO-TIN:	IN LIQUID OR SOLID > 100 MG/L	NOT EVALUATED
ORGANO-PHOS:	IN LIQUID OR SOLID > 100 MG/L	NOT EVALUATED
TIN:	IN LIQUID OR SOLID > 100 MG/L	NOT EVALUATED
PERSISTENT ORGANO- HALOGENS:	IN LIQUID OR SOLID > 100 MG/L	NOT EVALUATED

G. OTHER COMPONENTS

CONTAINS BENZENE	NO
CONTAINS TOLUENE	NO
CONTAINS XYLENE	NO
REPORTABLE SPILL QUANTITY FOR BENZENE, TOLUENE, XYLENE	NOT APPLICABLE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE

I. UNITED KINGDOM - DOE (CHEMICAL NOTIFICATION SCHEME)
TOXICITY CATEGORY

NOT EVALUATED

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

PRIVILEGED AND CONFIDENTIAL INFORMATION ATTACHED TO THIS FAX
THE USE OF THE INDIVIDUAL OR ENTITY NAMED BELOW. IF THE READER
OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY
NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS
OF THIS TELECOPY IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED
THIS TELECOPY IN ERROR, PLEASE IMMEDIATELY NOTIFY THE SENDER BY
PHONE. THANK YOU FOR YOUR COOPERATION.

DATE: 5/20/99FROM: SCOTT NELSONTO: Dr. Whately Leiper Brea...

COMPANY: _____

PHONE #: _____

FAX #: 393-4388NUMBER OF PAGES WITH COVER: 6

COMMENTS:

Waste Code - I will call you
today - when I get it

IF YOU HAVE ANY QUESTIONS, OR NEED ADDITIONAL INFORMATION,
PLEASE CONTACT ME BY:

PHONE: (505) 392-0746FAX: (505) 392-1412

ID# TXD 981055452

State Facility # 34114

TX Waste Code

10243161

S.I.D

10112071 Solution



FAX

TO: Martynne Keiling

FROM: DONNA ROACH

505-394-2590 Fax 505-394-2511 Voice
SUNDANCE SERVICES INC.

FAX NUMBER: 827-8177

PAGES(incl cover): 4

COMMENTS:

Unused Sodium silicone
Waste code.

Done

JUN-15-99 TUE 12:38 PM

JUN.15.1999 11:33AM

SS/HSE TSD/ DUNCAN

NO.987

P.2/4

1 of 2

**SECTION 7
HAZARDOUS OR INDUSTRIAL WASTE STREAM
NOTIFICATION FORM (EPCO-0001)**

All information is required for a complete notification, unless otherwise indicated. Refer to the instructions accompanying this form before you begin filling out the form.

Hankilton Energy Services
8400 Gentry Hwy
Arlington, TX

BWR 09/11/99

COMPANY NAME: _____

1. Response Number: 2. Form Code: 3. Classification:

If this is a Class 1 waste, all supporting information, documentation, and rationale must be attached to this notification.

4. Texas Waste Code

5. Description of Waste/Generating Process/Date of Initial Generation.

INORGANIC SOLID - Discharging off-spec material

6. Origin Codes. Primary Origin Code: Other Applicable Origin Codes:

- | | | | |
|--------------------------------------|---------------------------|--------------------------------------|-----------------------------------|
| 1 Onsite Routine Generation | 2 Spill Cleanup | 3 From nonhazardous waste management | 4 From hazardous waste management |
| 5 Received/no recycling or treatment | 6 Publicly funded cleanup | 7 Corrective Action; cleanup | |

5, 6, and 7 can only be identified as Primary Origin Codes. If you selected 5, 6, or 7 as the Primary Origin Code, do not list any other origin codes.

JUN-15-99 TUE 12:37 PM

JUN. 15. 1999 11:33AM

SS/HSE TSDF/DUNCAN
Holtbrun Energy Services
South Odessa Hwy
Andrew, TX

SWR #34174

NO. 967

P. 3/4

COMPANY NAME:

2 of 3

7. Waste Management Location.

Answer both questions:

a. Is this waste shipped or managed off-site?

☒

Yes

☐

No

b. Is this waste stored or otherwise managed on-site?

☒

Yes

☐

No

8. New Chemical Substances. (Answer for Class 2 or Class 3 wastes only) Is this a Class 2 or Class 3 waste generated from the production of a new chemical substance?

☐

Yes

☒

No

If YES, all supporting information, documentation and rationale must be submitted with this notification.

9. Company Waste ID. (Optional)

QUESTIONS 10-13 PERTAIN TO HAZARDOUS WASTE ONLY.

10. EPA Hazardous Waste Numbers.

(Continue on a separate page if necessary.)

11. SIC Codes. (See attached list & instructions.)

Primary SIC Code 1389

Other Applicable Codes

(Continue on separate page if necessary)

JUN-15-99 TUE 12:37 PM

JUN.15.1999 11:33AM

SS/HSE TSDF/DUNCAN --
Hillburt Energy Services
South Odessa Hwy
Andrews, TX

8VW314114

NO. 997

P.4/4

COMPANY NAME:

3 of 3

12. Source Codes. (See attached list & instructions.)

Primary Source Code A Other Applicable Codes A A A A A A

(Continue on separate page if necessary)

13. Mixed Radioactive Waste.

☐ Yes ☒ No

14. Measurement Points for determining the quantity of the waste to be reported on the annual report.

Primary Measurement Point Code Other Applicable Codes

15. System Types. (See attached list & instructions.) Skip this, unless you selected #4 as the Primary Origin Code in response to Question 6.

Primary System Type N Other Applicable Codes N N N

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

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

Form C-13
Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS FACILITY
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter HALLIBURTON
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 5801 LOVINGTON HWY. HOBBS NM 88240	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following MSDS sheets are for Halliburton's Hobbs facility waste cement. This waste is generated when the generator mixes up cement for an oilfield cement job and some cement is left over. It is then put into a truck for holding until disposed. I have attached a certificate of waste status and MSDS on all of the cement types used by this facility. Sundance would like approval to accept this material into our disposal.

Estimated Volume 200 tons cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 1-18-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____
APPROVED BY: Martinez J. Ruiz TITLE: Env Geologist DATE: 1-27-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Halliburton Energy Services

ADDRESS 5801 Lovington Hwy, Hobbs, NM 88240

GENERATING SITE SAME

COUNTY Lea STATE NM

TYPE OF WASTE Waste Cement

ESTIMATED VOLUME 200 Tons

GENERATING PROCESS Return unused cement
from job locations.

REMARKS _____

NMOCDF FACILITY Sundance

TRUCKING COMPANY Halliburton Energy Services / Chemical Express

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Scott Nelson

SIGNATURE

NAME Scott Nelson

PRINTED

ADDRESS 5801 Lovington Hwy

Hobbs, N.M. 88240

DATE 12.11.98

Halliburton Energy Services Shipping Papers
For
Movement of Materials According to Federal Regulations
As specified on CFR 49 sec.117.817 and 176.24

Location: Hobbs, New Mexico

Truck or Trailer No. 52043 - 8101

For Emergency Contact:

Name: Steve Luscomb

Telephone: (505) 392-6531

Driver _____

U.S. DOT Hazmat Reg. No. -051496 005 031E

Total Net Lbs 31,100 No. Cont. _____ Type: Bulk

Not Restricted

Halco Name & Number: Cement-Bulk

Gross Lbs./Pkg. 90.924 #5K 94.282 #5K ERG

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

Signature: _____

Time Loaded _____

Bulk Ticket No. _____ Freight Bill No. _____

Premium Cement	23,154 lbs.
Poz Mix	3,960 lbs.
Silica	2,904 lbs.
HA1-9	21 lbs.
CFR-3	92 lbs.
Gilsonite	1,320 lbs.
HA1A0-344	115 lbs.
HR-7	46 lbs.
Salt (Cement grade)	264 lbs.

FOR

MOVEMENT OF MATERIALS ACCORDING TO FEDERAL REGULATION
AS SPECIFIED IN CFR 49, SEC.177.817 AND 176.24

LOCATION: 15540

FOR EMERGENCY CONTACT:

TRUCK# OR TRLR# : 52043-8101

NAME: STEVE LUSCOMBE

TELEPHONE: (505) 392-6531

DRIVER:

U.S. DOT HAZMAT REG. NO. - 060497 003 42F

*HM:*****

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: BULK

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: CEMENT - CLASS H - PREMIUM - BULK 516.00272

* * * GROSS LBS/PKG: ERG =>

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: BULK

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: POZMIX(R) A - BULK 516.00286

* * * GROSS LBS/PKG: ERG =>

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: BULK

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: SILICALITE ADDITIVE - 50/50 W/ POZMIX 516.00443

* * * GROSS LBS/PKG: ERG =>

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: 50 LB BAG

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: HALAB(R) 9 CEMENT ADDITIVE 70.15556

* * * GROSS LBS/PKG: ERG =>

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: 50 LB BAG

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: CFR-3 CEMENT FRICTION REDUCER DEFOAM 516.00295

* * * GROSS LBS/PKG: ERG =>

FOR

MOVEMENT OF MATERIALS ACCORDING TO FEDERAL REGULATION
AS SPECIFIED IN CFR 49, SEC.177.817 AND 176.24

LOCATION: 15540

TRUCK# OR TRLR# : 52043-8101

FOR EMERGENCY CONTACT:

NAME: STEVE LUSCOMBE

TELEPHONE: (505) 392-6531

DRIVER:

U.S. DOT HAZMAT REG. NO. - 060497 003 42F

*HM:*****

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: BULK

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: GILSONITE(R) RESIN - BULK 516.00337

* * * GROSS LBS/PKG: ERG =>

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: 50 LB BAG

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: HALAD(R) 344 CEMENT ADDITIVE 516.00227

* * * GROSS LBS/PKG: ERG =>

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: 50 LB BAG

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: HR-7 ADDITIVE 890.50903

* * * GROSS LBS/PKG: ERG =>

* * TOT GROSS LBS _____ NUM CONTAINERS: TYPE: BULK

* *****

* * NOT RESTRICTED

* *

* *

* *

* *HALCO NAME & NO.: SALT - CEMENT GRADE - BULK 516.00315

* * * GROSS LBS/PKG: ERG =>

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED,
DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR
TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF
TRANSPORTATION.

SIGNATURE _____

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 12-30-97
REVISED DATE 01-17-96

EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: CEMENT - CLASS H - PREMIUM - BULK PART NUMBER: 516002720
PKG QTY: BULK APPLICATION: CEMENTING
SERVICE USED: CEMENT

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT+ + + + + + + +	PERCENT	TLV	PEL
PORTLAND CEMENT	> 60 %	10 MG/M3	10 MG/M3
SILICA, CRYSTALLINE--QUARTZ	<3 %	0.1 MG/M3	0.1 MG/M3

***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
APPEARANCE	GRAY SOLID, POWDER
ODOR	ODORLESS
SPECIFIC GRAVITY (H2O=1)	3.150
BULK DENSITY	94.00 LB/CU.FT.
PH	12.4
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	.1-1.0
BIODEGRADABILITY	N/A
PERCENT VOLATILES	0
EVAPORATION RATE(BUTYL ACETATE=1)	N/A
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/A
BOILING POINT(760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:
HEALTH 0 FLAMMABILITY 0 REACTIVITY 0 SPECIAL NONE
FLASH POINT N/A
AUTOIGNITION TEMPERATURE NO F / NO C
FLAMMABLE LIMITS (OZ. PER CU. FT.) LOWER N/D UPPER N/D

***** EXTINGUISHING MEDIA:

NONCOMBUSTIBLE
SPECIAL FIRE FIGHTING PROCEDURES:
NOT APPLICABLE.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
NO FIRE HAZARD.
NOT APPLICABLE.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : IARC

PRODUCT TOXICITY DATA: NOT DETERMINED

PRODUCT TLV: 10 MG/M3

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY CAUSE SEVERE IRRITATION WHICH MAY BE PERSISTENT.

SKIN:

CEMENT DUST CAN BE IRRITATING TO SKIN. WET CEMENT CAN DRY THE SKIN AND
CAUSE ALKALI BURNS. SENSITIVE INDIVIDUALS MAY DEVELOP ALLERGIC DERMATITIS.

INHALATION:

MAY BE IRRITATING.

TREAT AS NUISANCE DUST.

INGESTION:

THIS MATERIAL IS OF VERY LOW ACUTE TOXICITY. THERE IS NO EVIDENCE OF
ADVERSE EFFECTS FROM AVAILABLE INFORMATION.

CHRONIC EFFECTS:

CRYSTALLINE SILICA IS NOT ON THE OSHA CARCINOGEN LIST. NTP AND IARC HAVE
DETERMINED THERE IS SUFFICIENT EVIDENCE FOR CARCINOGENICITY OF CRYSTALLINE
SILICA TO EXPERIMENTAL ANIMALS AND LIMITED EVIDENCE TO HUMANS. "LIMITED
EVIDENCE" MEANS POSSIBLE RELATIONSHIP, BUT OTHER FACTORS CANNOT BE EXCLUDED.
CONTAINS TRACE AMOUNTS OF ARSENIC, A CHEMICAL KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE CANCER. EXPOSURE TO ARSENIC SHOULD NOT EXCEED THE
FEDERAL OSHA PEL UNLESS USED IN A MANNER THAT PRODUCES EXTREMELY HEAVY AIR-
BORNE CONCENTRATIONS OF PRODUCT AT LEVELS WELL ABOVE THE ALLOWABLE LIMITS.

OTHER SYMPTOMS AFFECTED:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENER BY
EXPOSURE TO THIS PRODUCT.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER.

INHALATION:

REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION,

INGESTION:

DO NOT INDUCE VOMITING! IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE
QUANTITIES ARE INGESTED. HOWEVER, MEDICAL ADVICE SHOULD BE OBTAINED.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

STORE IN A DRY LOCATION.

INCOMPATIBILITY (MATERIALS TO AVOID):

NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE KNOWN.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING DUST.

WASTE DISPOSAL METHOD:

IF NOT CONTAMINATED, REUSE PRODUCT.

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT TO SANITARY LANDFILL.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

NORMAL WORK GLOVES.

EYE PROTECTION:

DUST PROOF GOGGLES.

OTHER PROTECTIVE EQUIPMENT:

NORMAL WORK COVERALLS.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING CEMENT - CLASS H - PREMIUM - BULK 516.002720

WARNING!

CONTAINS A SMALL AMOUNT OF CRYSTALLINE SILICA, REPEATED OR PROLONGED INHALATION OF DUST MAY CAUSE A DELAYED RESPIRATORY ILLNESS (SILICOSIS). THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AND NTP HAVE DETERMINED THERE IS LIMITED EVIDENCE OF THE CARCINOGENICITY OF CRYSTALLINE SILICA.

MAY CAUSE EYE AND SKIN IRRITATION.

MAY CAUSE SKIN BURNS IF CEMENT IS WET OR WITH CONFINED INTIMATE CONTACT.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE.

AVOID CREATING OR INHALING DUST.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING LANDFILL OPERATOR'S AUTHORIZATION.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)

N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A
HAZARDOUS WASTE

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 12-30-97
REVISED DATE 01-17-96

EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: POZMIX(R) A - BULK PART NUMBER: 516002860
PKG QTY: BULK APPLICATION: LIGHT WEIGHT CEMENT ADDITIVE
SERVICE USED: CEMENT

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT+ + + + +	PERCENT	TLV	PEL
SILICA, CRYSTALLINE--QUARTZ	31-60 %	0.1 MG/M3	0.1 MG/M3
CALCIUM OXIDE	1-10 %	2 MG/M3	5 MG/M3
IRON OXIDE	1-10 %	5 MG/M3	10 MG/M3
MAGNESIUM OXIDE	1-10 %	10 MG/M3	10 MG/M3
SILICA, CRYSTALLINE-CRISTOBALITE	1-10 %	0.05 MG/M3	0.05 MG/M3
ALUMINUM OXIDE	11-30 %	10 MG/M3	10 MG/M3

***** SECTION III - PHYSICAL DATA *****

PROPERTY

MEASUREMENT

APPEARANCE	GRAY OR BLACK SOLID, POWDER
ODOR	ODORLESS
SPECIFIC GRAVITY (H2O=1)	2.300
BULK DENSITY	74.00 LB/CU.FT.
PH	NOT DETERMINED
SOLUBILITY IN WATER AT	
20 DEG C. GMS/100ML H2O	NEG
BIODEGRADABILITY	N/A
PERCENT VOLATILES	N/A
EVAPORATION RATE(BUTYL ACETATE=1)	N/A
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/A
BOILING POINT(760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 1	FLAMMABILITY 0	REACTIVITY 0	SPECIAL NONE
FLASH POINT	N/A	FLASH MTHD	
AUTOIGNITION TEMPERATURE			
FLAMMABLE LIMITS (OZ. PER CU. FT.)	LOWER N/A	UPPER N/A	

EXTINGUISHING MEDIA:

USE MEDIA APPROPRIATE FOR SURROUNDING MATERIALS.

SPECIAL FIRE FIGHTING PROCEDURES:

NOT APPLICABLE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NOT APPLICABLE.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : IARC

PRODUCT TOXICITY DATA: NOT DETERMINED

PRODUCT TLV: 0.1 MG/M3 (AS CRYSTALLINE SILICA)

----- EFFECTS OF EXPOSURE -----

PRIMARY ROUTES OF EXPOSURE:

INHALATION.

EYE:

DUST MAY CAUSE A MECHANICAL IRRITATION TO THE EYES.

SKIN:

ESSENTIALLY NON-IRRITATING.

INHALATION:

MAY BE IRRITATING.

REPEATED OVEREXPOSURE TO CRYSTALLINE SILICA MAY CAUSE ACUTE SILICOSIS, A
FIBROTIC LUNG CONDITION THAT REDUCES LUNG FUNCTION AND MAY LEAD TO
CARDIOPULMONARY IMPAIRMENT. SILICOSIS IS RAPIDLY PROGRESSIVE AND THE ONSET
OF SYMPTOMS MAY BE DELAYED.

INGESTION:

THIS MATERIAL IS OF VERY LOW ACUTE TOXICITY. THERE IS NO EVIDENCE OF
ADVERSE EFFECTS FROM AVAILABLE INFORMATION.

CHRONIC EFFECTS:

CRYSTALLINE SILICA IS NOT ON THE OSHA CARCINOGEN LIST. NTP AND IARC HAVE
DETERMINED THERE IS SUFFICIENT EVIDENCE FOR CARCINOGENICITY OF CRYSTALLINE
SILICA TO EXPERIMENTAL ANIMALS AND LIMITED EVIDENCE TO HUMANS. "LIMITED
EVIDENCE" MEANS POSSIBLE RELATIONSHIP, BUT OTHER FACTORS CANNOT BE EXCLUDED.

OTHER SYMPTOMS AFFECTED:

MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER.

INHALATION:

REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION,

INGESTION:

DO NOT INDUCE VOMITING! IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE
QUANTITIES ARE INGESTED. HOWEVER, MEDICAL ADVICE SHOULD BE OBTAINED.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE KNOWN.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING DUST.

WASTE DISPOSAL METHOD:

IF NOT CONTAMINATED, REUSE PRODUCT.

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT TO SANITARY LANDFILL.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

NORMAL WORK GLOVES.

EYE PROTECTION:

DUST PROOF GOGGLES.

OTHER PROTECTIVE EQUIPMENT:

NORMAL WORK COVERALLS.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING POZMIX(R) A - BULK

516.002860

WARNING!

CONTAINS CRYSTALLINE SILICA WHICH MAY CAUSE A DELAYED, PROGRESSIVE LUNG DISEASE (SILICOSIS). THE IARC AND NTP HAVE DETERMINED THERE IS LIMITED EVIDENCE OF THE CARCINOGENICITY OF CRYSTALLINE SILICA.

MAY CAUSE MILD EYE AND RESPIRATORY TRACT IRRITATION.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE.

AVOID CREATING OR INHALING DUST.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING LANDFILL OPERATOR'S AUTHORIZATION.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): Y MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)

N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE DRSH NE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A
HAZARDOUS WASTE

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 12-30-97
REVISED DATE 01-17-96

EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: SILICALITE ADDITIVE - 50/50 W/ POZMIX PART NUMBER: 516004430
PKG QTY: BULK APPLICATION: CEMENT ADDITIVE
SERVICE USED: CEMENT

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT*****	PERCENT	TLV	PEL
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SILICA, AMORPHOUS-FUMED		> 60 X 10 MG/M3	6 MG/M3
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***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
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APPEARANCE	BLACK SOLID, POWDER
ODOR	ODORLESS
SPECIFIC GRAVITY (H2O=1)	2.380
BULK DENSITY	26.30 LB/CU.FT.
PH	NOT DETERMINED
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	INSOLUBLE
BIODEGRADABILITY	N/A
PERCENT VOLATILES	N/A
EVAPORATION RATE(BUTYL ACETATE=1)	N/A
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/A
BOILING POINT(760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 0	FLAMMABILITY 0	REACTIVITY 0	SPECIAL	NONE
FLASH POINT		N/A		
AUTOIGNITION TEMPERATURE		NO	NO	
FLAMMABLE LIMITS (OZ. PER CU. FT.)	LOWER	N/D	UPPER	N/D

EXTINGUISHING MEDIA:

USE MEDIA APPROPRIATE FOR SURROUNDING MATERIALS.

SPECIAL FIRE FIGHTING PROCEDURES:

NOT APPLICABLE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NOT APPLICABLE.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : IARC

PRODUCT TOXICITY DATA: TOX ORL-RAT LD50: 3160 MG/KG
TOX IPR-RAT LDLO: 50 MG/KG

PRODUCT TLV: NOT ESTABLISHED

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

DUST MAY CAUSE A MECHANICAL IRRITATION TO THE EYES.

SKIN:

ESSENTIALLY NON-IRRITATING.

INHALATION:

MAY BE IRRITATING.

CONTAINS A SMALL AMOUNT OF CRYSTALLINE SILICA, REPEAT OR PROLONG EXPOSURES
MAY CAUSE A DELAYED RESPIRATORY SYSTEM ILLNESS, SILICOSIS. SYMPTOMS INCLUDE
SHORTNESS OF BREATH, COUGH, FEVER, WEIGHT LOSS, CHEST PAIN, REDUCTION OF
LUNG FUNCTION AND HEART IMPAIRMENT. ONSET OF SYMPTOMS MAY BE DELAYED.

INGESTION:

THIS MATERIAL IS OF VERY LOW ACUTE TOXICITY. THERE IS NO EVIDENCE OF
ADVERSE EFFECTS FROM AVAILABLE INFORMATION.

CHRONIC EFFECTS:

CRYSTALLINE SILICA IS NOT ON THE OSHA CARCINOGEN LIST. NTP AND IARC HAVE
DETERMINED THERE IS SUFFICIENT EVIDENCE FOR CARCINOGENICITY OF CRYSTALLINE
SILICA TO EXPERIMENTAL ANIMALS AND LIMITED EVIDENCE TO HUMANS. "LIMITED
EVIDENCE" MEANS POSSIBLE RELATIONSHIP, BUT OTHER FACTORS CANNOT BE EXCLUDED.

OTHER SYMPTOMS AFFECTED:

MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER. WASH CLOTHING BEFORE REUSE.
IF IRRITATION DEVELOPS, SEEK PROMPT MEDICAL ATTENTION.

INHALATION:

REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION,

INGESTION:

DO NOT INDUCE VOMITING! IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE
QUANTITIES ARE INGESTED. HOWEVER, MEDICAL ADVICE SHOULD BE OBTAINED.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

HYDROGEN FLUORIDE OR HYDROFLUORIC ACID.

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE KNOWN.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING

DUST.
WASTE DISPOSAL METHOD:
IF NOT CONTAMINATED, REUSE PRODUCT.
GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT TO SANITARY LANDFILL.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):
TOXIC DUST/MIST RESPIRATOR.
VENTILATION:
USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE
USED IN DUSTY ENVIRONMENTS.
PROTECTIVE GLOVES:
NORMAL WORK GLOVES.
EYE PROTECTION:
DUST PROOF GOGGLES.
OTHER PROTECTIVE EQUIPMENT:
NORMAL WORK COVERALLS.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING SILICALITE ADDITIVE - 50/50 W/ POZMIX 516.004430

WARNING!

CONTAINS A SMALL AMOUNT OF CRYSTALLINE SILICA, REPEATED OR PROLONGED
INHALATION OF DUST MAY CAUSE A DELAYED RESPIRATORY ILLNESS (SILICOSIS). THE
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AND NTP HAVE DETERMINED
THERE IS LIMITED EVIDENCE OF THE CARCINOGENICITY OF CRYSTALLINE SILICA.
MAY CAUSE RESPIRATORY IRRITATION.
DUST MAY CAUSE A MECHANICAL IRRITATION TO THE EYES.
FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE.
AVOID CREATING OR INHALING DUST.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN
PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST
OBTAINING LANDFILL OPERATOR'S AUTHORIZATION.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:
NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y
CHRONIC (DELAYED): Y MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)
N/A N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)
CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES
TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE DRSH NE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A
HAZARDOUS WASTE

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE
DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM
VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS
GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN
BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE
DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO
SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY
SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR
CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS
SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY
OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE
REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR
DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND
SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY
PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY
SERVICES.

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 12-30-97
REVISED DATE 08-20-97

EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: HALAD(R) 9 CEMENT ADDITIVE PART NUMBER: 070155560
PKG QTY: 50 LB BAG APPLICATION: LOW FLUID LOSS ADDITIVE
SERVICE USED: CEMENT

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT+ + + + +	PERCENT	TLV	PEL
CONDENSATE OF SULFONATED ORGANIC SALT	31-60 %	10 MG/M3	15 MG/M3

***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
----------	-------------

APPEARANCE	TAN SOLID POWDER
ODOR	ODORLESS
SPECIFIC GRAVITY (H2O=1)	1.220
BULK DENSITY	37.20 LB/CU.FT.
PH	5.5
SOLUBILITY IN WATER AT	
20 DEG C. GMS/100ML H2O	10
BIODEGRADABILITY	READILY
PERCENT VOLATILES	N/A
EVAPORATION RATE(BUTYL ACETATE=1)	N/A
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/A
BOILING POINT(760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	FORMS GEL
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 0	FLAMMABILITY 0	REACTIVITY 0	SPECIAL NONE
FLASH POINT	N/A		
AUTOIGNITION TEMPERATURE	NO	NO	
FLAMMABLE LIMITS (% BY VOLUME)	LOWER	N/D	UPPER N/D

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

AVOID CREATING DUST CLOUDS WITH EXTINGUISHERS.

FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING

APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND SULFUR OXIDES.

ORGANIC DUST IN THE PRESENCE OF A SOURCE OF IGNITION CARRIES A POTENTIAL EXPLOSION HAZARD IF THE CONCENTRATION IN THE AIR IS TOO HIGH. GOOD

HOUSEKEEPING PROCEDURES ARE REQUIRED TO MINIMIZE THIS POTENTIAL HAZARD.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: AQU TLM96: 3300 PPM(BROWN SHRIMP)

PRODUCT TLV: NUISANCE: 10 MG/M3(T)

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

DUST MAY CAUSE SEVERE EYE IRRITATION.

SKIN:

DUST MAY CAUSE MILD SKIN IRRITATION.

INHALATION:

MAY BE IRRITATING.

INGESTION:

NO DATA AVAILABLE

CHRONIC EFFECTS:

NO CHRONIC EFFECTS EXPECTED.

OTHER SYMPTOMS AFFECTED:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENER BY
EXPOSURE TO THIS PRODUCT.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE
REMOVING CONTAMINATED CLOTHING AND SHOES. IF IRRITATION PERSISTS, SEEK
PROMPT MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

INHALATION:

REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION,

INGESTION:

DO NOT INDUCE VOMITING! IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE
QUANTITIES ARE INGESTED. HOWEVER, MEDICAL ADVICE SHOULD BE OBTAINED.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF SULFUR, CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING
DUST.

WASTE DISPOSAL METHOD:

IF NOT CONTAMINATED, REUSE PRODUCT.

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT TO SANITARY LANDFILL.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

NORMAL WORK GLOVES.

EYE PROTECTION:

DUST PROOF GOGGLES.

OTHER PROTECTIVE EQUIPMENT:

NORMAL WORK COVERALLS.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING HALAD(R) 9 CEMENT ADDITIVE

070.155560

WARNING:

MAY CAUSE ALLERGIC RESPIRATORY REACTION IN SUSCEPTIBLE INDIVIDUALS.

MAY CAUSE SKIN AND RESPIRATORY IRRITATION.

MAY CAUSE SEVERE EYE IRRITATION.

AIRBORNE DUST MAY BE EXPLOSIVE!

PRODUCT IS VERY SLIPPERY WHEN WET! DO NOT SPREAD WITH WATER.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM OXIDIZERS.

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE.

AVOID CREATING OR INHALING DUST.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE.

RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING

LANDFILL OPERATOR'S AUTHORIZATION.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)

N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA YES EEC NO ACOIN N/D NPR NE DRSM NE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A

HAZARDOUS WASTE

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 12-30-97
REVISED DATE 01-17-96

EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: CFR-3 CEMENT FRICTION REDUCER DEFOAM PART NUMBER: 516002950
PKG QTY: 50 LB BAG APPLICATION: DISPERSANT FOR SALT CEMENT
SERVICE USED: CEMENT

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT+ + + + +	PERCENT	TLV	PEL
SULFONIC ACID SALT	> 60 %	NOT EST	NOT EST
SILICA, AMORPHOUS-DIATOMACEOUS EARTH	1-10 %	10 MG/M3	6 MG/M3

***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
APPEARANCE	DARK RED SOLID, POWDER
ODOR	MUSTY
SPECIFIC GRAVITY (H2O=1)	1.290
BULK DENSITY	38.00 LB/CU.FT.
PH	7
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	SOLUBLE
BIODEGRADABILITY	N/D
PERCENT VOLATILES	0
EVAPORATION RATE(BUTYL ACETATE=1)	N/A
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/A
BOILING POINT(760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	> 600,000
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 1	FLAMMABILITY 0	REACTIVITY 0	SPECIAL NONE
FLASH POINT	N/A		
AUTOIGNITION TEMPERATURE	NO	NO	
FLAMMABLE LIMITS (OZ. PER CU. FT.)	LOWER	N/D	UPPER N/D

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

AVOID CREATING DUST CLOUDS WITH EXTINGUISHERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND SULFUR OXIDES.
ORGANIC DUST IN THE PRESENCE OF A SOURCE OF IGNITION CARRIES A POTENTIAL EXPLOSION HAZARD IF THE CONCENTRATION IN THE AIR IS TOO HIGH. GOOD HOUSEKEEPING PROCEDURES ARE REQUIRED TO MINIMIZE THIS POTENTIAL HAZARD.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: AQU TLM96: 3300 PPM (BROWN SHRIMP)

PRODUCT TLV: 10 MG/M3 (T); 5 MG/M3 (R)

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

DUST MAY CAUSE MILD EYE IRRITATION.

SKIN:

ESSENTIALLY NON-IRRITATING.

INHALATION:

MAY BE IRRITATING.

TREAT AS NUISANCE DUST.

INGESTION:

NO DATA AVAILABLE

CHRONIC EFFECTS:

NO CHRONIC EFFECTS EXPECTED.

OTHER SYMPTOMS AFFECTED:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENERD BY
EXPOSURE TO THIS PRODUCT.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER. WASH CLOTHING BEFORE REUSE.
IF IRRITATION DEVELOPS, SEEK PROMPT MEDICAL ATTENTION.

INHALATION:

REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION,

INGESTION:

DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL
ATTENTION.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF SULFUR, CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING
DUST.

WASTE DISPOSAL METHOD:

IF NOT CONTAMINATED, REUSE PRODUCT.

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT TO SANITARY LANDFILL.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

NOT NORMALLY NECESSARY.

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

NORMAL WORK GLOVES.

EYE PROTECTION:

GOGGLES OR SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT:

NORMAL WORK COVERALLS.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING CFR-3 CEMENT FRICTION REDUCER DEFOAM 516.002950

WARNING!

CAUTION!

IRRITATING TO THE EYES, SKIN AND RESPIRATORY SYSTEM.

TREAT AS NUISANCE DUST.

AIRBORNE DUST MAY BE EXPLOSIVE!

PRODUCT IS VERY SLIPPERY WHEN WET! DO NOT SPREAD WITH WATER.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM OXIDIZERS.

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE.

AVOID CREATING OR INHALING DUST.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE.

RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING

LANDFILL OPERATOR'S AUTHORIZATION.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: PURE

8. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)
N/A

9. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

10. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)
CHEMICAL CONTAINS NO TOXIC INGREDIENTS

11. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES
TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE ORSM NE

12. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A
HAZARDOUS WASTE

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 12-30-97
REVISED DATE 01-17-96

EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: GILSONITE(R) RESIN - BULK PART NUMBER: 516003370
PKG QTY: BULK APPLICATION: LOST CIRC & LT WT ADDITIVE
SERVICE USED: CEMENTING

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT+ + + + +	PERCENT	TLV	PEL
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NATURAL ASPHALT	> 60 %	10 MG/M3	15 MG/M3
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***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
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APPEARANCE	DARK-BROWN SOLID
ODOR	ASPHALTIC
SPECIFIC GRAVITY (H2O=1)	1.050
BULK DENSITY	65.55 LB/CU.FT.
PH	5.8
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	NIL
BIODEGRADABILITY	SLOWLY
PERCENT VOLATILES	2
EVAPORATION RATE(BUTYL ACETATE=1)	N/A
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT(760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 0	FLAMMABILITY 1	REACTIVITY 1	SPECIAL NONE
FLASH POINT	599 F /	315 C	FLASH MTHD COC
AUTOIGNITION TEMPERATURE	ND	ND	
FLAMMABLE LIMITS (OZ. PER CU. FT.)	LOWER 0.020	UPPER	N/D

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING
APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE TOXIC GASES.
ORGANIC DUST IN THE PRESENCE OF A SOURCE OF IGNITION CARRIES A POTENTIAL
EXPLOSION HAZARD IF THE CONCENTRATION IN THE AIR IS TOO HIGH. GOOD
HOUSEKEEPING PROCEDURES ARE REQUIRED TO MINIMIZE THIS POTENTIAL HAZARD.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN

ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: TOX DETAILED STUDIES AVAILABLE UPON
REQUEST

PRODUCT TLV: 10 MG/M3 (N)

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

DUST MAY CAUSE A MECHANICAL IRRITATION TO THE EYES.

SKIN:

MAY CAUSE MILD IRRITATION.

INHALATION:

MAY BE IRRITATING.

INGESTION:

NO DATA AVAILABLE

CHRONIC EFFECTS:

NO SPECIFIC INFORMATION IS AVAILABLE ON THE CHRONIC EFFECTS OF EXPOSURE.

OTHER SYMPTOMS AFFECTED:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENER BY
EXPOSURE TO THIS PRODUCT.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER.

INHALATION:

REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION,

INGESTION:

DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL
ATTENTION.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON DIOXIDE AND/OR CARBON MONOXIDE AND UNIDENTIFIED HYDROCARBON VAPORS.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING
DUST.

WASTE DISPOSAL METHOD:

IF NOT CONTAMINATED, REUSE PRODUCT.

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT ABSORBED MATERIAL TO
SANITARY LANDFILL.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

NOT NORMALLY NECESSARY.

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

NORMAL WORK GLOVES.

EYE PROTECTION:

DUST PROOF GOGGLES.

OTHER PROTECTIVE EQUIPMENT:

NORMAL WORK COVERALLS.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING GILSONITE(R) RESIN - BULK

516.003370

CAUTION!

MAY CAUSE IRRITATION TO THE EYES, SKIN OR RESPIRATORY SYSTEM.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE.

AVOID CREATING OR INHALING DUST.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN

PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST

OBTAINING LANDFILL OPERATOR'S AUTHORIZATION.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)

N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE ORSM NE

F. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A

HAZARDOUS WASTE

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 12-30-97
REVISED DATE 08-19-97

EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: HALAD(R) 344 CEMENT ADDITIVE PART NUMBER: 516002270
PKG QTY: 50 LB BAG APPLICATION: FLUID LOSS ADDITIVE
SERVICE USED: CEMENT

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT+ + + + +	PERCENT	TLV	PEL
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MODIFIED ACRYLAMIDE COPOLYMER	> 60 X	10 MG/M3	15 MG/M3
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***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
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APPEARANCE	WHITE TO OFF-WHITE SOLID POWDER
ODOR	ODORLESS
SPECIFIC GRAVITY (H2O=1)	1.220
BULK DENSITY	26.00 LB/CU.FT.
PH	NOT DETERMINED
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	SOLUBLE
BIODEGRADABILITY	N/D
PERCENT VOLATILES	<5
EVAPORATION RATE(BUTYL ACETATE=1)	N/D
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT(760 MMHG)	N/D
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	SOLUBLE
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 1	FLAMMABILITY 0	REACTIVITY 0	SPECIAL NONE
FLASH POINT	N/A		
AUTOIGNITION TEMPERATURE	NO	NO	
FLAMMABLE LIMITS (OZ. PER CU. FT.)	LOWER	N/D	UPPER N/D

EXTINGUISHING MEDIA:

USE MEDIA APPROPRIATE FOR SURROUNDING MATERIALS.

SPECIAL FIRE FIGHTING PROCEDURES:

AVOID CREATING DUST CLOUDS WITH EXTINGUISHERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND NITROGEN OXIDES.

ORGANIC DUST IN THE PRESENCE OF A SOURCE OF IGNITION CARRIES A POTENTIAL EXPLOSION HAZARD IF THE CONCENTRATION IN THE AIR IS TOO HIGH. GOOD

HOUSEKEEPING PROCEDURES ARE REQUIRED TO MINIMIZE THIS POTENTIAL HAZARD.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: AQU TLM96: >3300 PPM(BROWN SHRIMP)

PRODUCT TLV: NOT ESTABLISHED

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY CAUSE MILD IRRITATION.

SKIN:

ESSENTIALLY NON-IRRITATING.

INHALATION:

MAY BE IRRITATING.

TREAT AS NUISANCE DUST.

INGESTION:

NO DATA AVAILABLE

CHRONIC EFFECTS:

NO CHRONIC EFFECTS EXPECTED.

OTHER SYMPTOMS AFFECTED:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENER BY
EXPOSURE TO THIS PRODUCT.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER. WASH CLOTHING BEFORE REUSE.
IF IRRITATION DEVELOPS, SEEK PROMPT MEDICAL ATTENTION.

INHALATION:

REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION,

INGESTION:

DO NOT INDUCE VOMITING! IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE
QUANTITIES ARE INGESTED. HOWEVER, MEDICAL ADVICE SHOULD BE OBTAINED.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS:

NITROGEN OXIDES, CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING
DUST.

WASTE DISPOSAL METHOD:

IF NOT CONTAMINATED, REUSE PRODUCT.

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT TO SANITARY LANDFILL.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

NORMAL WORK GLOVES.

EYE PROTECTION:

GOGGLES OR SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT:

NORMAL WORK COVERALLS.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING HALAD(R) 344 CEMENT ADDITIVE

516.002270

CAUTION!

MAY CAUSE MILD IRRITATION TO EYES, SKIN AND THE RESPIRATORY SYSTEM.

TREAT AS NUISANCE DUST.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE.

AVOID CREATING OR INHALING DUST.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE.

RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING

LANDFILL OPERATOR'S AUTHORIZATION.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: PURE

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)

N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA NE EEC NO ACOIN NO NPR NE DRSM NE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A
HAZARDOUS WASTE

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE

DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 12-30-97
REVISED DATE 01-17-96

EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: HR-7 ADDITIVE PART NUMBER: 890509030
PKG QTY: 50 LB BAG APPLICATION: RETARDER & DISPERSANT
SERVICE USED: EMENTING

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT+ + + + + + + +	PERCENT	TLV	PEL
--------------------------	---------	-----	-----

MODIFIED LIGNOSULFONATE	UNK	X 10 MG/M3	15 MG/M3
-------------------------	-----	------------	----------

***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
----------	-------------

APPEARANCE	BLACK SOLID, POWDER
ODOR	MOLASSES-LIKE
SPECIFIC GRAVITY (H2O=1)	1.410
BULK DENSITY	38.00 LB/CU.FT.
PH	NOT DETERMINED
SOLUBILITY IN WATER AT	
20 DEG C. GMS/100ML H2O	FREELY
BIODEGRADABILITY	SLOWLY
PERCENT VOLATILES	N/A
EVAPORATION RATE(BUTYL ACETATE=1)	N/A
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT(760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 0	FLAMMABILITY 1	REACTIVITY 0	SPECIAL NONE
FLASH POINT	N/A		
AUTOIGNITION TEMPERATURE	NO	NO	
FLAMMABLE LIMITS (OZ. PER CU. FT.)	LOWER N/D	UPPER N/D	

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

AVOID CREATING DUST CLOUDS WITH EXTINGUISHERS.

FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING

APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND SULFUR OXIDES.

ORGANIC DUST IN THE PRESENCE OF A SOURCE OF IGNITION CARRIES A POTENTIAL EXPLOSION HAZARD IF THE CONCENTRATION IN THE AIR IS TOO HIGH. GOOD

HOUSEKEEPING PROCEDURES ARE REQUIRED TO MINIMIZE THIS POTENTIAL HAZARD.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: AQU TLM96: >1000 PPM(BROWN SHRIMP)

PRODUCT TLV: NUISANCE: 10MG/M3(T)

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY CAUSE MILD IRRITATION.

SKIN:

ESSENTIALLY NON-IRRITATING.

INHALATION:

MAY BE IRRITATING.

INGESTION:

NO DATA AVAILABLE

CHRONIC EFFECTS:

NO CHRONIC EFFECTS EXPECTED.

OTHER SYMPTOMS AFFECTED:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENERD BY
EXPOSURE TO THIS PRODUCT.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER. WASH CLOTHING BEFORE REUSE.
IF IRRITATION DEVELOPS, SEEK PROMPT MEDICAL ATTENTION.

INHALATION:

REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION,

INGESTION:

DO NOT INDUCE VOMITING! IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE
QUANTITIES ARE INGESTED. HOWEVER, MEDICAL ADVICE SHOULD BE OBTAINED.

***** SECTION VI - REACTIVITY DATA *****

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF SULFUR, CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

TEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING
DUST.

ASTE DISPOSAL METHOD:-

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT TO SANITARY LANDFILL.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

NOT NORMALLY NECESSARY.

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

NORMAL WORK GLOVES.

EYE PROTECTION:

GOGGLES OR SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT:

NORMAL WORK COVERALLS.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING HR-7 ADDITIVE

890.509030

CAUTION!

MAY CAUSE MILD IRRITATION TO EYES, SKIN AND UPPER RESPIRATORY SYSTEM.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE.

AVOID CREATING OR INHALING DUST.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE.

RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING

LANDFILL OPERATOR'S AUTHORIZATION.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)

N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE ORSM NE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A

HAZARDOUS WASTE

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GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN
BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE
DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO
SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY
SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR
CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS
SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY
OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE
REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR
DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND
SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY
PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY
SERVICES.

SALT-CEMENT GRADE, BULK

PAGE

MATERIAL SAFETY DATA SHEET
HALLIBURTON SERVICES
DUNCAN, OKLAHOMA 73536

DATE: -
REVISED DATE 09-0

EMERGENCY TELEPHONE: 405/251-3565 OR 405/251-3569
AFTER HOURS: 405/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: SALT-CEMENT GRADE, BULK PART NUMBER: 51600
PKG QTY: BULK APPLICATION: ACCELERATOR
SERVICE USED: CEMENT

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT + + + + +	PERCENT	TLV	PEL
SODIUM CHLORIDE	> 60 %	10 MG/M3	15 MG/M3

***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
APPEARANCE	WHITE SOLID, CRYSTALLINE
O	ODORLESS
SPECIFIC GRAVITY (H2O=1)	2.165
BULK DENSITY	71.00 LB/CU.FT.
PH	5.2 FOR SAT SOL
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	35.7
BIODEGRADABILITY	N/A
PERCENT VOLATILES	N/A
EVAPORATION RATE(BUTYL ACETATE=1)	N/A
VAPOR DENSITY	N/A
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT(760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	SOLUBLE
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 0	FLAMMABILITY 0	REACTIVITY 0	SPECIAL NONE
FLASH POINT	NONE		
AUTOIGNITION TEMPERATURE	NO F /	NO C	
FLAMMABLE LIMITS (OZ. PER CU. FT.)	LOWER N/D	UPPER	N/D

EXTINGUISHING MEDIA:

SEE MEDIA APPROPRIATE FOR SURROUNDING MATERIALS.

SPECIAL FIRE FIGHTING PROCEDURES:

NOT APPLICABLE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NOT APPLICABLE.

***** SECTION V - HEALTH HAZARD DATA *****

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN
ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: IRR SKN-RBT 50 MG/24H MLD
IRR EYE-RBT 100 MG/34H SEV
TOX ORL-HMN TDLO:12357 MG/KG/230-C
TOX ORL-RAT LD50: 3000 MG/KG
AQU TLM96:OVER 1000 PPM

PRODUCT TLV: 10 MG/M3 (N)

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY BE IRRITATING.

SKIN:

MAY BE IRRITATING.

INHALATION:

MAY BE IRRITATING.

INGESTION:

NO DATA AVAILABLE

CHRONIC EFFECTS:

NO CHRONIC EFFECTS EXPECTED.

OTHER SYMPTOMS AFFECTED:

REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENERD BY
EXPOSURE TO THIS PRODUCT.

* * * * * SECTION VI - REACTIVITY DATA * * * * *

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE KNOWN.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

* * * * * SECTION VII - SPILL OR LEAK PROCEDURES * * * * *

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. SWEEP UP AND REMOVE. AVOID CREATING OR INHALING
DUST.

WASTE DISPOSAL METHOD:

IF NOT CONTAMINATED, REUSE PRODUCT.

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT TO SANITARY LANDFILL.

* * * * * SECTION VIII - SPECIAL PROTECTION INFORMATION * * * * *

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

NOT NORMALLY NECESSARY.

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

NORMAL WORK GLOVES.

EYE PROTECTION:

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONARY LABELING SALT-CEMENT-GRADE, BULK

516.003150

CAUTION!

MAY CAUSE IRRITATION TO THE EYES, SKIN OR RESPIRATORY SYSTEM.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE IN DRY LOCATION TO PROTECT PRODUCT QUALITY. REQUIRES COVERED STORAGE

AVOID CREATING OR INHALING DUST.

CONTAINER DISPOSITION:

CONTAINER SHOULD BE TRANSPORTED WITH ALL CLOSURES IN PLACE AND RETURNED FOR REUSE.

***** SECTION X - TRANSPORTATION INFORMATION *****

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

***** SECTION XI - ENVIRONMENTAL EVALUATION *****

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y

CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)
N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)
CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA NE EEC YES ACOIN YES NPR NE DRSM NE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE

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

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

Originated

Submit O
Plus 1
to appr
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Ene
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Facili
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter Key Energy
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318, State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 5801 Lovington Hwy Hobbs, NM 88240	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Halliburton's hobbs facility. This waste was generated by the washing of tools and oilfield equipment. These analytical results are just recently over one year and new results are being test now. The generated ask that these results be approved for this time because the danger of overflow. Sundance would like approval to accept this material into our Parabo Facility.

RECEIVED

DEC 20 1999

Environmental Bureau
Oil Conservation Division

Estimated Volume 100-bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Donna L. Roach TITLE: OFFICE MGR DATE: 12-14-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY Donna Williams TITLE: Environ. Eng. Specialist DATE: 12-16-99

APPROVED BY [Signature] TITLE: Env. Bureau Chief DATE: 12/20/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Halliburton Energy Services

ADDRESS 5801 Lovington Hwy. Hobbs, NM 88240

GENERATING SITE Same

COUNTY Lea STATE NM

TYPE OF WASTE Washack grit

ESTIMATED VOLUME 100 Bbls

GENERATING PROCESS Washing of oil field

Equipment returning from field.

REMARKS Same Process

NMOCD FACILITY Sundance

TRUCKING COMPANY Key

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Scott Nelson

SIGNATURE

NAME Scott Nelson

PRINTED

ADDRESS 5801 Lovington Hwy

Hobbs, NM 88240

DATE 12-13-99

**ARDINAL
LABORATORIES**

07-01 PM 1983 - CANTONMENT B BAY • LEE FOR INFO INQUIRY
07-01 PM 1983 - CANTONMENT B BAY • LEE FOR INFO INQUIRY

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

—

Company Name: Halliburton Energy Services
Project Manager: Scott Nelson
Address: 5801 Livingston Hwy
City: Hobbs State: NM Zip: 88240
Phone #: 505 392 0746
Fax #: 505 392 7002
Project #: 6211
Project Name: Washack Cair
Project Location: Washack, Hobbs, NM

BILL TO: ☐ PO# _____
 Company: ITE
 Name: Scott Nelson
 Address: SAME
 City: _____ Zip: _____
 State: _____
 Phone #: _____
 Fax #: _____

[illegible]

Sampled Reimbursement:		Date: 7/9/98	Received By:	Phone Record ☒ Yes ☐ No Fax Record: ☒ Yes ☐ No Remarks:	
Relinquished By:		Time: 11:30	Received By: Lab Staff		
Delivered By: (Signature)		Date: 7/9/98	Sample Condition:	CHECKED BY: (Signature)	
		Time: 1:00	Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No		
Delivered By: (Circle One)		UPS - Fed Ex - Bus - Other:			


**CARDINAL
LABORATORIES**

 PHONE (512) 573-7001 • 2111 BEECHWOOD • ARLING, TX 76010
 PHONE (505) 864-2338 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 362-7062**

 Receiving Date: 11/09/98
 Reporting Date: 11/12/98
 Project Number: NOT GIVEN
 Project Name: WASHRACK GRIT
 Project Location: HOBBS, NM

 Sampling Date: 11/09/98
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC/AH

LAB NO.	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		11/10/98	11/10/98	11/09/98	11/09/98
H3918-1	WASHRACK GRIT	Not reactive	Not reactive	7.49	Nonflammable
Quality Control		NR	NR	6.87	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	99.6	NR
Relative Percent Difference		NR	NR	0.4	NR

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

Chemist

Date

H3918-1.XLS

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PHONE (909) 896-8235 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR HALLIBURTON ENERGY SERVICES ATTN: SCOTT NELSON 5801 LOVINGTON HWY HOBBS, NM 88240 FAX TO: (505) 392-7082

Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM
Lab Number: H3918-1
Sample ID: WASHRACK GRIT

Analysis Date: 11/10/98
Sampling Date: 11/09/98
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BO

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result	Method	QC	% Recov.	True Value
		#	Blank			QC
Pyridine	5.00	<0.005	<0.005	0.014	28	0.050
1,4-Dichlorobenzene	7.50	<0.005	<0.005	0.038	78	0.050
o-Cresol	200	<0.005	<0.005	0.038	68	0.050
m, p-Cresol	200	<0.005	<0.005	0.038	72	0.050
Hexachloroethane	3.00	<0.005	<0.005	0.034	68	0.050
Nitrobenzene	2.00	<0.005	<0.005	0.047	84	0.050
Hexachloro-1,3-butadiene	0.500	<0.005	<0.005	0.037	74	0.050
2,4,6-Trichlorophenol	2.00	<0.005	<0.005	0.042	84	0.050
2,4,6-Trichlorophenol	400	<0.005	<0.005	0.042	84	0.050
2,4-Dinitrotoluene	0.130	<0.005	<0.005	0.038	68	0.050
Hexachlorobenzene	0.130	<0.005	<0.005	0.049	88	0.050
Pentachlorophenol	100	<0.005	<0.005	0.050	78	0.050

% RECOVERY

2-Fluorophenol	22
2-Fluorophenol-d5	17
Nitrobenzene-d5	88
2-Fluorobiphenyl	87
2,4,6-Trichlorophenol	43
Terphenyl-d14	88

METHODS: EPA SW 846-8270, 1311, 8510

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

11/12/98
Date

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PHONE (817) 473-7001 • 2111 S. ECHOLSWOOD • ARLING, TX 76010

PHONE (805) 382-7082 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
6801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (805) 382-7082

Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM
Lab Number: H3918-1
Sample ID: WASHRACK GRIT

Analysis Date: 11/10/98
Sampling Date: 11/09/98
Sample Type: OTHER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: SC

TOLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3918-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.098	98	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.098	98	0.100
Methyl Ethyl Ketone	200	<0.005	<0.005	0.092	92	0.100
Chloroform	8.0	<0.005	<0.005	0.092	92	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.094	94	0.100
Benzene	0.5	<0.005	<0.005	0.092	92	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.098	98	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.114	114	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.098	98	0.100
Chlorobenzene	100	<0.005	<0.005	0.092	92	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.098	98	0.100

% RECOVERY

Dibromofluoromethane	109
Toluene-d8	118
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cook, Jr.
Burgess J. A. Cook, Jr. L

11/12/98
Date

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ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
8801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 322-7062

Receiving Date: 11/09/98
Reporting Date: 11/12/98
Project Number: NOT GIVEN
Project Name: WASHRACK GRIT
Project Location: HOBBS, NM

Sampling Date: 11/09/98
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE		11/11/98	11/10/98	11/11/98	11/10/98	11/11/98	11/10/98	11/11/98	11/11/98
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H3018-1	WASHRACK	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	GRIT								
Quality Control		0.049	1.117	21.93	3.791	4.888	5.070	0.0085	0.089
True Value QC		0.050	1.000	20.00	4.000	5.000	5.000	0.0100	0.050
% Recovery		98	112	110	85	88	101	85	116
Relative Standard Deviation		7.270	0.30	4.07	1.82	1.04	7.97	6.60	0.88
METHODS: EPA 1311, 640/4-81A		205.2	272.1	208.1	218.1	218.1	288.1	245.1	270.2

Burcelo J. R. Rocha
Chemist

11/13/98
Date

H3018-3XL8

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District IV - (505) 827-7131

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

Form C-13
Originated 8/87

Submit Origin
Plus 1 Co.
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ <i>11-12-99</i>	4. Generator <u>Halliburton</u>
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site <u>Baroid yard</u>
2. Management Facility Destination <u>SUNDANCE SERVICES INC.</u>	6. Transporter <u>unknown</u>
3. Address of Facility Operator <u>P.O. BOX 1737 Eunice NM 882318</u>	State <u>NEW MEXICO</u>
7. Location of Material (Street Address or ULSTR) <u>400 N. Ruth</u>	<u>Monahans. Tx</u>
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. <u>B.</u> All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are for Halliburton Energy's Monahans yard. This material is from old tanks located in this yard with drilling fluids (mud) left over. I have included a certificate of waste status and chain of custody. Sundance Service would like approval to accept this material into our facility.

Estimated Volume 150 ²⁶ ~~yards~~ ^{Yards} *Verbal 11/12/99* Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 11-11-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 01-19-00

APPROVED BY: Theresa J. Ruby TITLE: Environmental Geologist DATE: 01-29-00

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: N.L. Baroid Yard Monahan, TX
SOURCE: Drilling Fluids (Mud)
DISPOSAL LOCATION: SUNDANCE SERVICES INC.

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

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

Name

V.D. Whitley

Title/Agency

V.P. / Operations Manager, SEST.

Address

703 E. Clinton Suite 103
Hobbs, NM 87240

Signature

V.D. Whitley

Date

11-4-99



Page 7 of 7

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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

**ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.**

ATTN: DEE WHATLEY
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 10/26/99
Reporting Date: 10/28/99
Project Number: NOT GIVEN
Project Name: BAROID YARD
Project Location: MONAHANS, TX

Sampling Date: 10/26/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: GP/AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		10/27/99	10/27/99	10/28/99	10/27/99	10/28/99	10/27/99	10/28/99	10/27/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4415-1	TANK 19-24 COMP.	<1	<1	<25	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.201	1.098	50.12	1.138	1.850	4.850	0.0093	0.052
True Value QC		0.200	1.000	50.00	1.000	2.000	5.000	0.0100	0.050
% Recovery		101	110	100	114	93	97	93	104
Relative Standard Deviation		2.3	0.6	1.0	1.3	0.6	0.6	7.9	0.7
METHODS: EPA 1311, 600/4-91/01		208.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Gayle A. Potter
Gayle A. Potter, Chemist

10/28/99
Date

H4415M.XLS

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**ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DEE WHATLEY
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388**

Receiving Date: 10/25/99
Reporting Date: 10/28/99
Project Number: NOT GIVEN
Project Name: BAROID YARD
Project Location: MONAHANS, TX

Sampling Date: 10/25/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

LAB NUMBER SAMPLE ID	REACTIVITY			
	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:	10/26/99	10/26/99	10/28/99	10/28/99
H4415-1 TANK 19-24	Not reactive	Not reactive	6.70	Nonflammable
COMPOSITE				
Quality Control	NR	NR	7.01	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	100	NR
Relative Percent Difference	NR	NR	0.4	NR

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

Chemist

Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DEE WHATLEY
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 10/25/99
Reporting Date: 10/27/99
Project Number: NOT GIVEN
Project Name: BAROID YARD
Project Location: MONAHANS, TX
Lab Number: H4415-1
Sample ID: TANK 18-24 COMPOSITE

Analysis Date: 10/26/99
Sampling Date: 10/25/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4415-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.006	12	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.030	60	0.050
o-Cresol	200	<0.020	<0.005	0.019	38	0.050
m, p-Cresol	200	<0.020	<0.005	0.014	28	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.024	48	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.037	74	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.033	66	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.032	64	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.036	72	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.039	78	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.047	94	0.050
Pentachlorophenol	100	<0.020	<0.005	0.039	78	0.050

% RECOVERY

Fluorophenol	21
Phenol-d5	17
Nitrobenzene-d5	80
2-Fluorobiphenyl	69
2,4,6-Tribromophenol	54
Terphenyl-d14	88

METHODS: EPA SW 846-8270, 1311

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

10/25/99
Date

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DEE WHATLEY
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 10/25/99
Reporting Date: 10/27/99
Project Number: NOT GIVEN
Project Name: BAROID YARD
Project Location: MONAHANS, TX
Lab Number: H4415-1
Sample ID: TANK 19-24 COMPOSITE

Analysis Date: 10/26/99
Sampling Date: 10/25/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4415-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.083	83	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.098	98	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.087	87	0.100
Chloroform	6.0	<0.005	<0.005	0.096	96	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	96	0.100
Benzene	0.5	0.010	<0.005	0.095	95	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.107	107	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.097	97	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.092	92	0.100
Chlorobenzene	100	<0.005	<0.005	0.093	93	0.100
1,4-Dichlorobenzene	7.5	0.005	0.006	0.097	97	0.100

% RECOVERY

Dibromofluoromethane	97
Toluene-d8	99
Bromofluorobenzene	97

METHODS: EPA SW 846-8260, 1311

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

Date

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

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District III - (505) 334-6178
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District IV - (505) 827-7131

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

Form C-13
Originated 8/8/9

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District Office

OCT 06 1999

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Electric Submersible PUMP
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Yard
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter unknown
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 8426 N. Dal Paso Hobbs, NM 88241	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Electric Submersible Pump's Hobbs facility. This waste is generated by the washing off of oil field rental tools. All equipment is washed into the sump and pumped to a waste water tank outside the building in a bermed area. I have attached a certificate of waste and chain of custody. there are two different lab results. Sundance would like approval to accept this material into our Parabo facility.

Estimated Volume 240 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach
Waste Management Facility Authorized Agent

TITLE: OFFICE MGR

DATE: 10-1-99

TYPE OR PRINT NAME: DONNA L. ROACH

TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams

TITLE: Environmental Engineer Specialist DATE: 10-04-99

APPROVED BY: Martinez & King

TITLE: Environmental Geologist DATE: 10-06-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: 8426 N. Dol Pasa
SOURCE: ELECTRIC Submersible Pumps
DISPOSAL LOCATION: SUNDANCE SERVICES
EUNICE N.M.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.1.

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

Name

Kimell Jelf

Title/Agency Supervisor

Address

P.O. Box 586
Eunice N.M. 88520

Signature

Kimell Jelf

Date

10-7-99

240 bbls.

P.O. BOX 1468
MONAHANS, TEXAS 79756
(915) 943-3234 or 563-1040

Martin Water Laboratories, Inc.
WATER CONSULTANTS SINCE 1953
BACTERIAL AND CHEMICAL ANALYSES

709 W. INDIANA
MIDLAND, TEXAS 79701
(915) 683-4521

To: Mr. Malcolm Rainwater
17 Kevin Road
Midland, TX 79703

Laboratory No. 599222
Sample Received 5-25-99
Results Reported 6-9-99

Company: ESP, Inc.

Subject: To make the determinations listed below on submitted water samples.

Source of Sample and Date Taken:

1. Hobbs. 5-6-99
2. Midland (red flush hose). 4-29-99
3. Snyder (test shop). 4-30-99

<u>PARAMETER</u>	<u>#1 - MG/L</u>	<u>#2 - MG/L</u>	<u>#3 - MG/L</u>
Total Petroleum Hydrocarbons	3190 <0.500	<0.500	0.602
Dichlorodifluoromethane	ND	ND	ND
Chloromethane	ND	ND	ND
Vinyl chloride	ND	ND	ND
Bromomethane	ND	ND	ND
Chloroethane	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND
Methylene chloride	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND
Chloroform	ND	ND	ND
2,2 Dichloropropane	ND	ND	ND
Bromochloromethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND
1,1-Dichloropropene	ND	ND	ND
Benzene	ND	0.0079	ND
1,2-Dichloropropane	ND	ND	ND
Trichloroethene	0.0021	0.0300	0.0200
Dibromomethane	ND	ND	ND
Bromodichloromethane	ND	ND	ND
cis-1,3Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Toluene	ND	0.0130	0.0200
1,1,2-Trichloroethane	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND
MTBE	ND	ND	ND
Dibromochloromethane	ND	ND	ND

Mr. Malcolm Rainwater, ESP, Inc. - Laboratory No. 599222 (Page 2)

	<u>#1</u> <u>MG/L</u>	<u>#2</u> <u>MG/L</u>	<u>#3</u> <u>MG/L</u>
1,2,-Dibromoethane	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Chlorobenzene	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND
Ethylbenzene	ND	0.0100	ND
m&p Xylene	ND	0.0770	0.0095
Bromoform	ND	ND	ND
Styrene	ND	ND	ND
o-Xylene	ND	0.0630	0.0058
1,1,2,2-Tetrachloroethane	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND
Isopropylbenzene	ND	0.0033	ND
Bromobenzene	ND190	ND	ND
2-Chlorotoluene	ND	ND	ND
n-Propylbenzene	ND	0.0050	ND
4-Chlorotoluene	ND	ND	ND
1,3,5-Trimethylbenzene	ND	0.0270	ND
tert-Butylbenzene	ND	ND	ND
1,2,4-Trimethylbenzene	ND	0.0750	ND
1,4-Dichlorobenzene	ND	ND	ND
sec-Butylbenzene	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND
4-Isopropyltoluene	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
n-Butylbenzene	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND
Naphthalene	ND	0.0190	ND
1,2,4-Trichlorobenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND

ND - Not Detected

Notation: Test methods in compliance with U.S. Environmental Protection Agency Regulations; TPH using Method 418.1 and Volatiles using Method 624.

Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Waylan C. Martin, M.A.

Martin Water Laboratories, Inc.

TRACE ANALYSIS, INC.6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite ALubbock, Texas 79424
El Paso, Texas 79922800-378-1296
888-588-3443806-794-1296
915-585-3443FAX 806-794-1298
FAX 915-585-4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control ReportSue Brantun
Martin Water Laboratories
709 West Indiana
Midland, TX 79701

Report Date: 5/28/99

Project Number: N/A
Project Name: ESP
Project Location: N/A

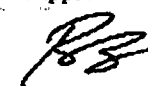
Order ID Number: 99052604

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
125430	Hobbs	Water	5/6/99	-	5/26/99
125431	Midland	Water	4/29/99	-	5/26/99
125432	Snyder	Water	4/30/99	-	5/26/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 2 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Report Date: 5/28/99

Order ID Number: 99052604

Page Number: 2 of 2

Analytical Results Report

Sample Number: 125430

Description: Hobbs

Param	Flag	Result	Units	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TRPHC		<0.500	mg/L	1	E 418.1	5/27/99	5/28/99	MF	PB00908	QC01137	0.5

Sample Number: 125431

Description: Midland

Param	Flag	Result	Units	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TRPHC		<0.500	mg/L	1	E 418.1	5/27/99	5/28/99	MF	PB00908	QC01137	0.5

Sample Number: 125432

Description: Snyder

Param	Flag	Result	Units	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TRPHC		0.602	mg/L	391	E 418.1	5/27/99	5/28/99	MF	PB00908	QC01137	0.5

Quality Control Report**Method Blanks**

Param	Flag	Blank Result	Units	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TRPHC		<0.500	mg/L	0.5	5/28/99	PB00908	QC01137

Quality Control Report**Lab Control Spikes and Duplicate Spike**

Standard	Param	Units	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	TRPHC	mg/L	<0.500	1	8.5	8.14	96		70 - 130	0 - 20	QC01137
LCSD	TRPHC	mg/L	<0.500	1	8.5	8.21	97	1	70 - 130	0 - 20	QC01137

Quality Control Report**Continuing Calibration Verification Standard**

Standard	Param	Flag	CCVs TRUE Conc.	Units	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TRPHC		100	mg/L	101	101	70 - 130	5/28/99	QC01137
CCV (1)	TRPHC		100	mg/L	98.4	98	70 - 130	5/28/99	QC01137

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424

El Paso, Texas 79922

E-Mail: lab@traceanalysis.com

800•378•1296

888•588•3443

806•794•1296

915•585•3443

FAX 806•794•1298

FAX 915•585•4944

ANALYTICAL RESULTS FOR MARTIN WATER LAB

Attention: Sue Branam

P. O. Box 1468

Monahans, TX 79756-1468

PAGE 1 of 2

June 7, 1999

Receiving Date: 05/26/99

Sample Type: Water

Project No:

Project Location:

Prep Date: 05/28/99

Analysis Date: 05/28/99

Sampling Date: 05/06/99

Sample Condition: Intact & Cool

Sample Received by: VW

FIELD CODE: Hobbs

TA #: T125430

624 Compounds	Reporting		QC	RPD	EA	IA
	Limit (ug/L)	Concentration (ug/L)				
Dichlorodifluoromethane	1	ND				
Chloromethane	1	ND				
Vinyl chloride	2	ND	94			94
Bromomethane	5	ND				
Chloroethane	1	ND				
Trichlorofluoromethane	1	ND				
1,1-Dichloroethene	1	ND	84	2	84	84
Methylene chloride	5	ND				
trans-1,2-Dichloroethene	1	ND				
1,1-Dichloroethane	1	ND				
cis-1,2-Dichloroethene	1	ND				
Chloroform	1	ND	90			90
2,2-Dichloropropane	1	ND				
Bromochloromethane	1	ND				
1,2-Dichloroethane	1	ND				
1,1,1-Trichloroethane	1	ND				
Carbon Tetrachloride	1	ND				
1,1-Dichloropropene	1	ND				
Benzene	1	ND		1	92	
1,2-Dichloropropane	1	ND	90			90
Trichloroethene	1	2.1		0	94	
Dibromomethane	1	ND				
Bromodichloromethane	1	ND				
cis-1,3-Dichloropropene	1	ND				
trans-1,3-Dichloropropene	1	ND				
Toluene	1	ND	96	1	96	96
1,1,2-Trichloroethane	1	ND				
1,3-Dichloropropane	1	ND				
MTBE	1	ND				

MARTIN WATER LAB
Attention: Sue Branam

PAGE 2 of 2

FIELD CODE: Hobbs
TA #: T125430

624 Compounds

	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	1/
Dibromochloromethane	1	ND				
1,2-Dibromoethane	1	ND				
Tetrachloroethene	1	ND				
Chlorobenzene	1	ND	103	1	108	10
1,1,1,2-Tetrachloroethane	1	ND				
Ethylbenzene	1	ND	110			110
m & p-Xylene	1	ND				
Bromoform	1	ND				
Styrene	1	ND				
o-Xylene	1	ND				
1,1,2,2-Tetrachloroethane	1	ND				
1,2,3-Trichloropropane	1	ND				
Isopropylbenzene	1	ND				
Bromobenzene	1	ND				
2-Chlorotoluene	1	ND				
n-Propylbenzene	1	ND				
4-Chlorotoluene	1	ND				
1,3,5-Trimethylbenzene	1	ND				
tert-Butylbenzene	1	ND				
1,2,4-Trimethylbenzene	1	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	1	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	1	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	1	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	1	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

*Matrix spikes were not used because not enough sample was sent; reported LCS/LCSD.

% Recovery

Dibromofluoromethane 108
Toluene-d8 105
4-Bromofluorobenzene 93
Methods: EPA 624
CHEMIST: JG


Director, Dr. Blair Leftwich

6-7-99
Date



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR MARTIN WATER LAB

Attention: Sue Branam
P. O. Box 1468

Monahans, TX 79756-1468

PAGE 1 of 2

June 7, 1999

Receiving Date: 05/26/99

Sample Type: Water

Project No:

Project Location:

Prep Date: 05/28/99

Analysis Date: 05/28/99

Sampling Date: 04/29/99

Sample Condition: Intact & Cool

Sample Received by: VW

FIELD CODE: Midland

TA #: T125431

Reporting

624 Compounds	Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dichlorodifluoromethane	1	ND				
Chloromethane	1	ND				
Vinyl chloride	2	ND	94			94
Bromomethane	5	ND				
Chloroethane	1	ND				
Trichlorofluoromethane	1	ND				
1,1-Dichloroethene	1	ND	84	2	84	84
Methylene chloride	5	ND				
trans-1,2-Dichloroethene	1	ND				
1,1-Dichloroethane	1	ND				
cis-1,2-Dichloroethene	1	ND				
Chloroform	1	ND	90			90
2,2-Dichloropropane	1	ND				
Bromochloromethane	1	ND				
1,2-Dichloroethane	1	ND				
1,1,1-Trichloroethane	1	ND				
Carbon Tetrachloride	1	ND				
1,1-Dichloropropene	1	ND				
Benzene	1	7.9		1	92	
1,2-Dichloropropane	1	ND	90			90
Trichloroethene	1	30		0	94	
Dibromomethane	1	ND				
Bromodichloromethane	1	ND				
cis-1,3-Dichloropropene	1	ND				
trans-1,3-Dichloropropene	1	ND				
Toluene	1	13	96	1	96	96
1,1,2-Trichloroethane	1	ND				
1,3-Dichloropropane	1	ND				
MTBE	1	ND				

MARTIN WATER LAB
Attention: Sue Branam

PAGE 2 of 2

FIELD CODE: Midland
TA #: T125431

624 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dibromochloromethane	1	ND				
1,2-Dibromoethane	1	ND				
Tetrachloroethene	1	ND				
Chlorobenzene	1	ND	103	1	108	102
1,1,1,2-Tetrachloroethane	1	ND				
Ethylbenzene	1	10	110			110
m & p-Xylene	1	77				
Bromoform	1	ND				
Styrene	1	ND				
o-Xylene	1	63				
1,1,2,2-Tetrachloroethane	1	ND				
1,2,3-Trichloropropane	1	ND				
Isopropylbenzene	1	3.3				
Bromobenzene	1	ND				
2-Chlorotoluene	1	ND				
n-Propylbenzene	1	5.0				
4-Chlorotoluene	1	ND				
1,3,5-Trimethylbenzene	1	27				
tert-Butylbenzene	1	ND				
1,2,4-Trimethylbenzene	1	75				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	1	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	1	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	1	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	1	19				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

*Matrix spikes were not used because not enough sample was sent; reported LCS/LCSD.

% Recovery

Dibromofluoromethane 112
Toluene-d8 104
4-Bromofluorobenzene 101

Methods: EPA 624

CHEMIST: JG


Director, Dr. Blair Leftwich

6-7-99
Date



TRACE ANALYSIS, INC.

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ANALYTICAL RESULTS FOR MARTIN WATER LAB

Attention: Sue Branam

P. O. Box 1468

Monahans, TX 79756-1468

PAGE 1 of 2

June 7, 1999

Receiving Date: 05/26/99

Sample Type: Water

Project No:

Project Location:

Prep Date: 06/04/99

Analysis Date: 06/04/99

Sampling Date: 04/30/99

Sample Condition: Intact & Cool

Sample Received by: VW

FIELD CODE: Snyder

TA #: T125432

TEL:1-505-392-8190 Reporting

Jun 15 '99

8:52 No.003

624 Compounds	Limit* (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dichlorodifluoromethane	5	ND				
Chloromethane	5	ND				
Vinyl chloride	10	ND	84			84
Bromomethane	125	ND				
Chloroethane	5	ND				
Trichlorofluoromethane	5	ND				
1,1-Dichloroethene	5	ND	101	4	92	101
Methylene chloride	125	ND				
trans-1,2-Dichloroethene	5	ND				
1,1-Dichloroethane	5	ND				
cis-1,2-Dichloroethene	5	ND				
Chloroform	5	ND	97			97
2,2-Dichloropropane	5	ND				
Bromochloromethane	5	ND				
1,2-Dichloroethane	5	ND				
1,1,1-Trichloroethane	5	ND				
Carbon Tetrachloride	5	ND				
1,1-Dichloropropene	5	ND				
Benzene	5	ND		4	110	
1,2-Dichloropropane	5	ND	96			96
Trichloroethene	5	20		1	114	
Dibromomethane	5	ND				
Bromodichloromethane	5	ND				
cis-1,3-Dichloropropene	5	ND				
trans-1,3-Dichloropropene	5	ND				
Toluene	5	20	101	1	112	101
1,1,2-Trichloroethane	5	ND				
1,3-Dichloropropane	5	ND				
MTBE	5	ND				

MARTIN WATER LAB

Attention: Sue Branam

PAGE 2 of 2

FIELD CODE: Snyder

TA #: T125432

624 Compounds

	Reporting Limit* (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dibromochloromethane	6	ND				
1,2-Dibromoethane	5	ND				
Tetrachloroethene	5	ND				
Chlorobenzene	5	ND	99	2	107	99
1,1,1,2-Tetrachloroethane	5	ND				
Ethylbenzene	5	ND	102			102
m & p-Xylene	5	9.5				
Bromoform	5	ND				
Styrene	5	ND				
o-Xylene	5	5.8				
1,1,2,2-Tetrachloroethane	5	ND				
1,2,3-Trichloropropane	5	ND				
Isopropylbenzene	5	ND				
Bromobenzene	5	ND				
2-Chlorotoluene	5	ND				
n-Propylbenzene	5	ND				
4-Chlorotoluene	5	ND				
1,3,5-Trimethylbenzene	5	ND				
tert-Butylbenzene	5	ND				
1,2,4-Trimethylbenzene	5	ND				
1,4-Dichlorobenzene	10	ND				
sec-Butylbenzene	5	ND				
1,3-Dichlorobenzene	10	ND				
4-Isopropyltoluene	5	ND				
1,2-Dichlorobenzene	10	ND				
n-Butylbenzene	5	ND				
1,2-Dibromo-3-chloropropane	125	ND				
1,2,3-Trichlorobenzene	125	ND				
Naphthalene	5	ND				
1,2,4-Trichlorobenzene	125	ND				
Hexachlorobutadiene	125	ND				

*Sample ran at 1:15 dilution due to foamy matrix.

% Recovery

Dibromofluoromethane	86
Toluene-d8	96
4-Bromofluorobenzene	93

Methods: EPA 624

CHEMIST: JG


Director, Dr. Blair Leftwich6-1-99
Date

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

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

RECEIVED
APR 27 1999
Environmental Bureau
Oil Conservation Division

Form C-137
Originated 8/8/9

Submit Origin:
Plus 1 Cop
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator DRESSER OIL TOOLS
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site DENVER CITY
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter ROWLAND
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231	7. State TEXAS
7. Location of Material (Street Address or ULSTR) West Hwy 83 Denver City Texas 79323	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Dresser Oil Tools Denver city facility. This waste is generated by the cleaning of pumps returning from the oilfield. I have included a certificate of waste status, chain of custody and texas waste code on this facility. Sundance would like approval to accept this material into our Parabo facility.

Estimated Volume 10 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: _____
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____
APPROVED BY: Martyn J. Healy TITLE: Environmental Geologist DATE: 4-27-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Dresser Oil tools
ADDRESS W. Hwy 83, Denver City, TX 79323
GENERATING SITE Same

COUNTY _____ STATE TX
TYPE OF WASTE Sludge / water

ESTIMATED VOLUME 10 Bbls

GENERATING PROCESS Cleaning of pumps
Returning from field locations

REMARKS _____

NMOCD FACILITY Sundance, 1431 E. Main, Eunice, NM

TRUCKING COMPANY Rowland Trucking, 2105 Ave O, Eunice, NM

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Scott Nelson

SIGNATURE

NAME Scott Nelson

PRINTED

ADDRESS Halliburton Energy Services

5801 Livingston Hwy, Hobbs, NM 88240

DATE _____

APR. 21. 1999 9:29AM
05-29-1997 08:16

SS/HSE TSDF/DUNCAN

NO. 909

P. 2/2
P. 03/08

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

ONE-TIME SHIPMENT REQUEST FOR TEXAS WASTE CODE
FOR SHIPMENT OF
CLASS 1, 2, 3 AND EPA HAZARDOUS WASTE

Pursuant to the generator notification requirements of 30 TAC Section 335.6, the generator of a solid waste is required to submit to the TNRCC detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be changed without prior approval from the TNRCC.

Please type or print legibly.

Terry Eyerly
Halliburton Energy Services
P. O. Drawer 1431
Duncan, OK 73536-0365

GENERATOR CONTACT PERSON
GENERATOR COMPANY NAME
GENERATOR MAILING ADDRESS
CITY, STATE, ZIP CODE
PHONE NO. (580) 251 - 4151
FAX NO. (580) 251 - 2359

COMPLETE ONLY IF NOT REGISTERED

Are you industrial? ☒ Yes ☐ NoIf industrial, have you submitted TNRCC Initial Notification form (TNRCC-0002)? ☐ Yes ☒ NoDate submitted: INACTIVE FACILITY

COMPLETE ONLY IF REGISTERED

Solid Waste Registration No.

U. S. EPA Identification No.

Generating Site Location (☐ Check if same as above) DRESSER OIL TOOLS / WEST HWY 83 / DENVER CITY, TX 79323
(STREET ADDRESS OR PHYSICAL DESCRIPTION)Designated Treatment, Storage, and/or Disposal Facility Name and Address SUNDANCE SERVICES INC.P. O. BOX 1737 / 604 AVE. I / Eupia, NM 88231DESCRIPTION OF WASTE
(do not use DOT description or trade name)1. Sludge from the wash down of productionPUMPS

2. _____

3. _____

4. _____

GENERATOR/REPRESENTATIVE

I certify that the above information is correct to the best of my knowledge.

I, Terry Eyerly, am employed by:
(NAME, Please Print)

(COMPANY NAME AND MAILING ADDRESS)

Halliburton Energy Services
P. O. Drawer 1431
Duncan, OK 73536-0365

TNRCC USE ONLY

For TNRCC Assignment of
Texas Waste Code NumberDXV56951

TEXAS WASTE CODES

FORM CODE	CLASS CODE	EPA CODE	ORIGIN CODE
695	1		1

PROCESSED DATE:

PROCESSED BY:

TNRCC REGION:

OFFICE

I am authorized to sign this certification for:

Halliburton Energy Services

(COMPANY NAME)

Terry Eyerly

(SIGNATURE)

4/14/99

(DATE)

(580) 251 - 4151

(PHONE NUMBER)

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX: 505-392-7082

Receiving Date: 04/01/99
Sample Type: Sludge
Project: None Given
Project Location: Denver City Hwy. 83 Business

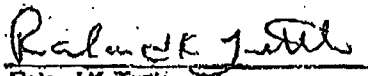
Analysis Date: Hg 4/06/99 ✓
Analysis Date: 04/07/99 ✓
Sampling Date: 04/01/99 ✓
Sample Condition: Intact/iced

		TCLP METALS (mg/L)							
ELT#	Field Code	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
	EPA LIMIT	5.00	5.00	100.0	1.00	5.00	0.20	5.00	1.00
17425	Sludge	<0.10	<0.10	<1.00	<0.100	<0.50	<0.010	<0.50	<0.100

REPORTING LIMIT 0.10 0.10 1.00 0.100 0.50 0.010 0.50 0.100

% EXTRACTION ACCURACY 93 102 90 96 90 88 98 104

METHODS: EPA SW 846-1311, 6010B, 7470A


Roland K. Tuttle

4-13-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX: 505-392-7062

RECEIVING DATE: 04/01/99
SAMPLE TYPE: Sludge
PROJECT NAME: None Given
FIELD CODE: Sludge
PROJECT LOCATION: Denver City Hwy. 83 Business

ANALYSIS DATE: 04/07/99
SAMPLING DATE: 04/01/99
SAMPLE CONDITION: Intact/loose

TCLP VOLATILES (mg/l)	SAMPLE 17425	PQL	BLANK	%EA	%DEV
1,1-Dichloroethene	ND	0.001	ND	90	7.3
2-Butanone	ND	0.010	ND		-4.6
Chloroform	ND	0.001	ND		-5.8
Benzene	ND	0.001	ND	92	2.1
1,2-Dichloroethane	ND	0.001	ND		-1.7
Vinyl Chloride	ND	0.001	ND		18.8
Carbon Tetrachloride	ND	0.001	ND		4.0
Trichloroethene	ND	0.001	ND	98	-2.7
Tetrachloroethene	ND	0.001	ND		-10.1
Chlorobenzene	ND	0.001	ND	105	-8.3
1,4-Dichlorobenzene	ND	0.001	ND		8.3

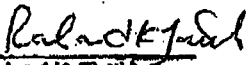
SYSTEM MONITORING COMPOUNDS

	% RECOVERY
dibromofluoromethane	97
toluene-d8	106
4-bromofluorobenzene	95

ND = < PQL

PQL = PRACTICAL QUANTITATION LIMIT

Methods: EPA SW 846-8240. 1311


Roland K. Tuttle

4-13-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY.
HOBBS, NM 88240
FAX: 505-392-7062

Receiving Date: 04/01/99
Sample Type: Sludge
Project #: None Given
Project Location: Denver City Hwy. 83 Business
Field Code: Sludge

Analysis Date: 04/12/99
Sampling Date: 04/01/99
Sample Condition: Intact/Iced

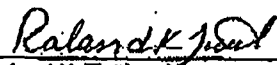
TCLP SEMIVOLATILE ORGANICS (mg/L)	REPORTING LIMIT	ELT# 17425	%EA
Cresol	<0.10	ND	86
1,4-Dichlorobenzene	<0.10	ND	60
2,4-Dinitrotoluene	<0.10	ND	94
Hexachlorobenzene	<0.10	ND	22
Hexachlor-1,3-butadiene	<0.10	ND	52
Hexachloroethane	<0.10	ND	66
Nitrobenzene	<0.10	ND	84
Pentachlorophenol	<0.10	ND	38
Pyridine	<0.10	ND	54
2,4,5-Trichlorophenol	<0.10	ND	82
2,4,6-Trichlorophenol	<0.10	ND	82

SYSTEM MONITORING COMPOUNDS

	% Recovery
2-Fluorophenol	22
Phenol-d5	18
Nitrobenzene-d5	32
2-Fluorobiphenyl	32
2,4,6-Tribromophenol	48
Terphenyl-d14	78

ND= NOT DETECTED, < REPORTING LIMIT

Method: SW 846-8270.1311


Roland K. Tuttle

4-13-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt"

HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY.
HOBBES, NM 88240
FAX: 505-392-7082

Receiving Date: 04/01/99
Sample Type: Sludge
Project: None Given
Project Location: Denver City Hwt. 83 Business

Analysis Date: see below
Sampling Date: 04/01/99
Sample Condition: Intact/Iced

ELT#	Field Code	REACTIVITY		CORROSIVITY	IGNITABILITY
		H ₂ S (ppm)	CN- (ppm)	(s.v.)	
17425	Sludge	NON-REACTIVE 92.0	NON-REACTIVE <2.0	NON-CORROSIVE Non Corrosive 6.20	>140 deg. F

ANALYSIS DATE

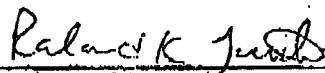
4/7/99

4/6/99

4/2/99

4/12/99

METHODS: EPA SW-846-9045, 1010


Raland K. Tuttle

4-13-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX: 505-382-7062

RECEIVING DATE: 04/01/99
SAMPLE TYPE: Sludge
PROJECT #: None Given
PROJECT NAME: None Given
PROJECT LOCATION: Denver City Hwy. 82 Business

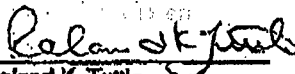
ANALYSIS DATE: 04/05/99
SAMPLING DATE: 04/01/99
SAMPLE CONDITION: Intact/Iced

ELT#	FIELD CODE	TPH (mg/kg)
17425	Sludge	202000

QUALITY CONTROL
TRUE VALUE
% PRECISION
BLANK

438
436
100
≤10

Methods: EPA 418.1


Roland K. Tuttle

4-13-99
Date

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

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

RECEIVED
MAR 5 1999
Environmental Bureau
Oil Conservation Division

Form C-
Originated
Submit Or
Plus 1
to appro
District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator Dresser Oil Tool 5. Originating Site Andrews Faci 6. Transporter Rowland Truckin
2. Management Facility Destination SUNDANCE SERVICES INC.	3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State Texas
7. Location of Material (Street Address or ULSTR) Hwy HC 67 Kermit Texas	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Dresser Oil Tools ^{Kermit, TX} ~~Hobbs~~ facility. This waste is generated by the cleaning of pumps returning from the field. I have included a certificate of waste and chain of custody. Sundance Services would like approval to accept this material into our Parabo Facility.

Hold Donna checking on TX or NM Location myk 3-15-99
will send Texas waste code 3-15-99
Received 3/24/99

Estimated Volume 50 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: _____
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 4-13-99

APPROVED BY: Martyn J. Kelly TITLE: Env Geologist DATE: 3-25-99

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

Energy Minerals and Natural Resources Department

Oil Conservation Division

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

RECEIVED

MAR 15 1999

Environmental Bureau
Oil Conservation Division

Form C-
Originated &

Submit Or
Plus 1
to appro
District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Dresser Oil Tool
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Andrews Faci
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter Rowland Truckin
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231g. State Texas	
7. Location of Material (Street Address or ULSTR) Hwy HC 67 Kermit Texas	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Dresser Oil Tools ~~Hobbs~~ ^{Kermit TX} facility. This waste is generated by the cleaning of pumps returning from the field. I have included a certificate of waste and chain of custody. Sundance Services would like approval to accept this material into our Parabo Facility.

Hold Donna Checking on TX or NM Location myk 3-15-99
will send Texas waste code 3-15-99
Received 3/24/99

Estimated Volume 50 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L Roach TITLE: OFFICE MGR DATE: _____
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511
505 394 2590

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____
APPROVED BY: Martinez J. Kelly TITLE: Env Geologist DATE: 3-25-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Dresser Oil Tools

ADDRESS Hwy Hc 67, Box 62, Kermit, TX

GENERATING SITE Hwy Hc 67, Box 62, Kermit

COUNTY Winkler STATE TX

TYPE OF WASTE Sludge / Water

ESTIMATED VOLUME 50 Bbls

GENERATING PROCESS Cleaning of pumps, Returnis
from field.

REMARKS

NMOCD FACILITY Sundance, 1431 E. Main, Eunice, NM

TRUCKING COMPANY Rowland Trucking, 2105 Ave O, Eunice, NM

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Scott Nelson Scott Nelson

SIGNATURE
NAME Scott Nelson

PRINTED
ADDRESS Halliburton Energy Services

5801 Lovings Hwy, Hobbs, NM 88240

DATE 2.23.99

(915) 563-1800 FAX (915) 563-1713

Project Manager:

Phone #: 505-392-0746

Scott Nelson

FAX #: 855-392-1412

Company Name & Address:

3801 Louisa St. N. W.

Halbörten

Hobbs, NM 88240

सं. २५३८

Project Name:

Dresser Oil Tool

Project Location:

Andrews Hwy, Kermitt TX

Sample Signature:

Palmer Park

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX: 505-392-7062

RECEIVING DATE: 02/04/99

SAMPLE TYPE: Sludge

PROJECT #: None Given

PROJECT NAME: Dresser Oil Tool

PROJECT LOCATION: Andrews Hwy, Kermit, Texas

ANALYSIS DATE: 02/04/99

SAMPLING DATE: 02/03/99

SAMPLE CONDITION: Intact/loose

ELT# FIELD CODE

TPH
(mg/kg)

16923 Sludge

424000

QUALITY CONTROL

TRUE VALUE

% PRECISION

BLANK

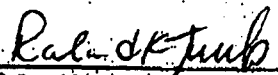
509

515

99

<10

Methods: EPA 418.1


Roland K. Tuttle

2-16-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY
HOBBES, NM 88240
FAX: 505-392-7062

RECEIVING DATE: 02/04/99

SAMPLE TYPE: Sludge

PROJECT NAME: Dresser Oil Tool

FIELD CODE: Sludge

PROJECT LOCATION: Andrews Hwy, Kermit Texas

ANALYSIS DATE: 02/05/99

SAMPLING DATE: 02/03/99

SAMPLE CONDITION: Intact/fced

TCLP VOLATILES (mg/l)	SAMPLE 16923	PQL	BLANK	%EA	%DEV
1,1-Dichloroethene	ND	0.001	ND	85	12.6
2-Butanone	ND	0.010	ND		3.7
Chloroform	ND	0.001	ND		9.2
Benzene	ND	0.001	ND	85	18.4
1,2-Dichloroethane	ND	0.001	ND		6.6
Vinyl Chloride	ND	0.001	ND		0.5
Carbon Tetrachloride	ND	0.001	ND		11.6
Trichloroethene	ND	0.001	ND	94	8.6
Tetrachloroethene	ND	0.001	ND		13.8
Chlorobenzene	ND	0.001	ND	94	10.1
1,4-Dichlorobenzene	ND	0.001	ND		15.8

SYSTEM MONITORING COMPOUNDS

% RECOVERY

dibromofluoromethane

103

toluene-d8

103

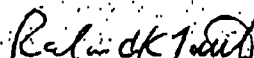
4-bromofluorobenzene

104

ND = < PQL

PQL = PRACTICAL QUANTITATION LIMIT

Methods: EPA SW 846-8240, 1311


Raland K. Tuttle

2-16-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

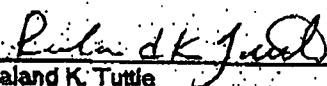
HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY
HOBBES, NM 88240
FAX: 505-392-7062

Receiving Date: 02/04/99
Sample Type: Sludge
Project: Dresser Oil
Project Location: Andrews HWY, Kermit Tx

Analysis Date: Hg 2/09/99
Analysis Date: 02/12/99
Sampling Date: 02/03/99
Sample Condition: Intact/Iced

		TCLP METALS (mg/L)							
ELT#	Field Code	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
	EPA LIMIT	5.00	5.00	100.0	1.00	5.00	0.20	5.00	1.00
16923	Sludge	<0.02	0.004	<0.5	0.008	0.60	<0.002	<0.10	<0.002
REPORTING LIMIT		0.02	0.002	0.5	0.005	0.03	0.002	0.10	0.002
% INSTRUMENT ACCURACY		96	85	100	103	104	105	103	95
% EXTRACTION ACCURACY		119	80	95	98	94	105	98	80

METHODS: EPA SW 846-1311, 7760, 7062, 7080, 7130, 7190, 7470, 7420, 7742


Raland K. Tuttle

2-16-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY.
HOBBS, NM 88240
FAX: 505-392-7062

Receiving Date: 02/04/99
Sample Type: Sludge
Project #: None Given
Project Location: Dresser Oil Tool
Field Code: Sludge

Analysis Date: 02/10/99
Sampling Date: 02/03/99
Sample Condition: Intact/Iced

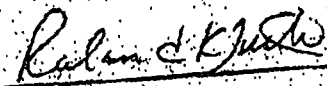
TCLP	REPORTING	ELT#	RPD	%EA	%IA
SEMIVOLATILE ORGANICS (mg/l)	LIMIT	16923			
Pyridine	0.05	ND	9	38	91
1,4-Dichlorobenzene	0.05	ND	8	54	100
o-Cresol	0.05	ND	0	56	93
Nitrobenzene	0.05	ND	3	60	84
m,p-Cresol	0.05	ND	1	52	96
Hexachloroethane	0.05	ND	9	57	104
Hexachlorobutadiene	0.05	ND	5	84	104
2,4,6-Trichlorophenol	0.05	ND	6	77	100
2,4,5-Trichlorophenol	0.05	ND	10	81	104
2,4-Dinitrotoluene	0.05	ND	7	72	104
Hexachlorobenzene	0.05	ND	7	71	93
Pentachlorophenol	0.05	ND	7	85	111

SYSTEM MONITORING COMPOUNDS	% Recovery
2-Fluorophenol	39
Phenol-d6	28
Nitrobenzene-d5	73
2-Fluorobiphenyl	77
2,4,6-Tribromophenol	86
Terphenyl-d14	68

ND= NOT DETECTED, < REPORTING LIMIT

Method: SW 846-8270.1311

*NOTE: Surrogate out of control limit (76-126)


Roland K. Tuttle

2-16-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

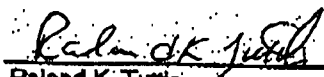
HALLIBURTON ENERGY SERVICES
ATTN: MR. SCOTT NELSON
5801 LOVINGTON HWY.
HOBBS, NM 88240
FAX: 505-392-7062

Receiving Date: 02/04/99
Sample Type: Sludge
Project: Dresser Oil Tool
Project Location: Andrews Hwy., Kermit, TX

Analysis Date: see below
Sampling Date: 02/03/99
Sample Condition: Intact/Iced

ELT#	Field Code	REACTIVITY		CORROSIVITY (s.u.)	IGNITABILITY
		H ₂ S (ppm)	CN _x (ppm)		
16823	Sludge	NON-REACTIVE <10.0	NON-REACTIVE <2.5	NON-CORROSIVE Non Corrosive 5.84	>140 deg. F
RPD		0	0	0	0
% PRECISION					
% INSTRUMENT ACCURACY				100	
ANALYSIS DATE		2/10/99	2/10/99	2/4/99	2/5/99

METHODS: EPA SW-846-2.1.3, 2.1.2, 2.1.1


Roland K. Tuttle

2-16-99
Date



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

ONE-TIME SHIPMENT REQUEST FOR TEXAS WASTE CODE FOR SHIPMENT OF CLASS 1, 2, 3 AND EPA HAZARDOUS WASTE

Pursuant to the generator notification requirements of 30 TAC Section 335.8, the generator of a solid waste is required to submit to the TNRCC detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be changed without prior approval from the TNRCC.

Please type or print legibly:

Terry Byerly
Halliburton Energy Services
P O Drawer 1431
Duncan OK 73536-0365

GENERATOR CONTACT PERSON
GENERATOR COMPANY NAME
GENERATOR MAILING ADDRESS
CITY, STATE, ZIP CODE
PHONE NO. 580 251-4151
FAX NO. 580 251-2359

COMPLETE ONLY IF NOT REGISTERED

Are you industrial? ☒ Yes ☐ No

If industrial, have you submitted TNRCC Initial Notification form (TNRCC-0002)? ☐ Yes ☒ No

Date submitted: INACTIVE FACILITY

COMPLETE ONLY IF REGISTERED

XXX 07

Solid Waste Registration No.

U. S. EPA Identification No.

Generating Site Location (☐ Check if same as above) DRESSER OIL TOOL EAST ANDREWS HWY HC67 BOX 62
KERMIT TX 79745 (STREET ADDRESS OR PHYSICAL DESCRIPTION)
Designated Treatment, Storage, and/or Disposal Facility Name and Address SUNDANCE SERVICES INC
P O BOX 1737 604 AVE I EUNICE NM 88231

DESCRIPTION OF WASTE (do not use DOT description or trade name)

1. SLUDGE FROM THE WASH DOWN
OF PRODUCTION PUMPS
- 2.
- 3.
- 4.

GENERATOR/REPRESENTATIVE

I certify that the above information is correct to the best of my knowledge.

TERRY BYERLY

(NAME, Please Print)

(COMPANY NAME AND MAILING ADDRESS)

HALLIBURTON ENERGY SERVICES
P O BOX DRAWER 1431
DUNCAN OK 73536-0365

TNRCC USE ONLY

For TNRCC Assignment of
Texas Waste Code Number

DX FG 6951

TEXAS WASTE CODES

FORM CODE	CLASS CODE	EPA CODE	ORIGIN CODE
695	1		1

PROCESSED DATE:

PROCESSED BY:

TNRCC REGION:

OFFICE

I am authorized to sign this certification for:

HALLIBURTON ENERGY SERVICES

(COMPANY NAME)

Terry Byerly
(SIGNATURE)

3-9-99

(DATE)

(580) 251-4151

(PHONE NUMBER)

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

NEW MEXICO
Energy Minerals and Natural Resources Department

Oil Conservation Division

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

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MAR 1 1999

Environmental Bureau
Oil Conservation Division

Form C-
Originated &

Submit Or
Plus 1
to approj
District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EXXON USA
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site NM State S #30
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter Chaparral
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR)	I 2 225 37E
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following MSDS is from the New Mexico State S #30 for Exxon USA. This waste was generated by a scheduled workover cancelled. I have included a mixture MSDS which is called BE-5 Microbiocide which is mixed with fresh water. This material is stored on site in some rental frac tanks. I have also included a certificate of waste status. A rental charge is being charged daily on the frac tanks holding this material so we would like to ask for a verbal approval to accept this material as soon as possible.

Estimated Volume 5500 bbls cy Known Volume (to be entered by the operator at the end of the haul) cy

SIGNATURE Donna L. Roach TITLE: OFFICE MGR DATE: 3-10-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 3-15-99
APPROVED BY: Martyn J. Kelly TITLE: Env. Geologist DATE: 3/17/99

EXXON COMPANY, U.S.A.
POST OFFICE BOX 4358 • HOUSTON, TEXAS 77210-4358

HOUSTON PRODUCTION ORGANIZATION
REGULATORY COMPLIANCE

March 9, 1999

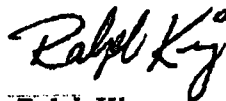
Ms. Donna Roach
Sundance Services Inc.
Eunice, new Mexico

Dear Ms. Roach:

We have approximately 5500 barrels of non-exempt oil and gas waste that was generated from a scheduled workover that was not performed. The waste is a mixture of 66 pounds of Halliburton Energy Services 'BE-5' Microbiocide chemical and approximately 5500 barrels of fresh water. The MSDS for this chemical indicates that this waste is non-hazardous, and a copy of the MSDS is attached for your information. The waste is currently stored at New Mexico 'S' State well #30 in 11 frac tanks. Chaparral Services in Eunice will be used to haul this material to Sundance Services Inc. for disposal.

Please process this request as soon as possible so we can release the rental tanks.

Sincerely,



Ralph King
Operations Compliance Specialist

C:\data\winword\state30.doc

A DIVISION OF EXXON CORPORATION

NO. 5789 P. 3/9

REG. COMPL.

MAR. 9. 1999 3:01PM



MAR- 2-99 TUE 14:59

SUNDANCE SERVICES INC

FAX NO. 5053942590

P.02

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: NEW MEXICO 'S' STATE well #30
SOURCE: WELL WORKOVER
DISPOSAL LOCATION: SUNDANCE SERVICES INC. EUNICE, NEW MEXICO

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

I, the undersigned as the agent for EXXON U.S.A.
concur with the status of the waste from the subject site.

Name

RALPH KING

Title/Agency

OPERATIONS COMPLIANCE SPECIALIST

Address

P.O. Box 4358HOUSTON, TEXAS 77210

Signature

Ralph King

Date

MARCH 3, 1999

BE-5 MICROBIOCIDE

PAGE 1

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 07-22-98
REVISED DATE 06-12-9

EMERGENCY TELEPHONE: 580/251-4689 OR 580/251-3569
AFTER HOURS: 580/251-3760

***** SECTION I - PRODUCT DESCRIPTION *****

CHEMICAL CODE: BE-5 MICROBIOCIDE PART NUMBER: 51600493
PKG QTY: 36 LB BOX APPLICATION: MICROBIOCIDE
SERVICE USED: FRACTURING

***** SECTION II - COMPONENT INFORMATION *****

COMPONENT	ISD %	PERCENT	TLV	PEL
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	1-10 %	0.1 MG/M3	NOT EST	
2-METHYL-4-ISOTHIAZOLIN-3-ONE	1-10 %	NOT EST	NOT EST	
MAGNESIUM CHLORIDE	1-10 %	NOT EST	NOT EST	
DIATOMACEOUS EARTH	31-60 %	10 MG/M3 (TTWA 6 MG/M3)		
SILICA, CRYSTALLINE--QUARTZ	1-10 %	0.1 MG/M3	0.1 MG/M3	

***** SECTION III - PHYSICAL DATA *****

PROPERTY	MEASUREMENT
APPEARANCE	LIGHT GREEN TO YELLOW SOLID
ODOR	MILD
SPECIFIC GRAVITY (H2O=1)	1.720
BULK DENSITY	5.59 LB/CU.FT.
PH	NOT DETERMINED
SOLUBILITY IN WATER AT 20 DEG. C. GMS/100ML H2O	DISPERSES
BIODEGRADABILITY	N/D
PERCENT VOLATILES	N/A
EVAPORATION RATE (BUTYL ACETATE=1)	N/A
VAPOR DENSITY	>1
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT (760 MMHG)	N/A
POUR POINT	N/A
FREEZE POINT	N/A
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	N/D

***** SECTION IV - FIRE AND EXPLOSION DATA *****

NFPA(704) RATING:

HEALTH 3	FLAMMABILITY 1	REACTIVITY 0	SPECIAL NONE
FLASH POINT	NONE		
AUTOIGNITION TEMPERATURE	ND	ND	
FLAMMABLE LIMITS (OZ. PER CU. FT.)	LOWER N/A	UPPER N/A	

PN: 516004930

PAGE 2

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.

WEAR FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE TOXIC GASES.

***** SECTION V - HEALTH HAZARD DATA *****

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO: "NTP, IARC, OSHA, OR, ACIGH"

PRODUCT TOXICITY DATA: NOT DETERMINED

PRODUCT TLV: NOT ESTABLISHED

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION

EYE:

CONTACT WILL PRODUCE SEVERE IRRITATION OR BURNS AND, IF NOT IMMEDIATELY REMOVED, MAY LEAD TO PERMANENT EYE DAMAGE.

SKIN:

CONTACT CAUSES SEVERE IRRITATION OR BURNS WITH POSSIBLE IN-DEPTH INJURY.

INHALATION:

MISTS, AEROSOLS OR VERY HIGH VAPOR CONCENTRATIONS WILL PRODUCE INTENSE EYE NOSE AND RESPIRATORY IRRITATION AND MAY RESULT IN LUNG DAMAGE. PROLONGED EXPOSURE MAY RESULT IN CHEMICAL PNEUMONITIS AND, IN EXTREME CASES, PULMONARY EDEMA (FILLING OF THE LUNGS WITH FLUIDS).

INGESTION:

CAUSES SEVERE IRRITATION OR BURNS TO THE MOUTH AND GASTROINTESTINAL TRACT. IN EXTREME CASES MAY CAUSE KIDNEY AND LIVER DAMAGE.

CHRONIC EFFECTS:

NO SPECIFIC INFORMATION IS AVAILABLE ON THE CHRONIC EFFECTS OF EXPOSURE.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS. BREATHING OF VAPOR AND/OR MISTS MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION.

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

INHALATION:

PN: 516004930

PAGE 3

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.
PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL
ATTENTION.

* * * * * SECTION VI - REACTIVITY DATA * * * * *

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF SULFUR AND NITROGEN AND HYDROGEN CHLORIDE

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

* * * * * SECTION VII - SPILL OR LEAK PROCEDURES * * * * *

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

DIKE AND ABSORB SPILL USING HYPOCHLORITE SOLUTION* IN AN INERT MATERIAL AND
TRANSFER TO A SUITABLE CONTAINER. *FORMULATION: 8 LBS. CALCIUM HYPOCHLORIT
5 LBS. SODIUM HYDROXIDE AND 77 LBS. WATER. SODIUM HYDROXIDE MUST BE ADDED
TO MAINTAIN ALKALINITY AND PREVENT THE EVOLUTION OF CHLORINE GAS.

WASTE DISPOSAL METHOD:

GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA
SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE.

* * * * * SECTION VIII - SPECIAL PROTECTION INFORMATION * * * * *

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

ORGANIC VAPOR CHEMICAL CARTRIDGE RESPIRATOR WITH A DUST-MIST FILTER.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM.

OTHER PROTECTIVE EQUIPMENT:

RUBBER APRON TO PREVENT DIRECT SKIN CONTACT.

* * * * * SECTION IX - SPECIAL PRECAUTIONS * * * * *

PRECAUTIONARY LABELING BE-5 MICROBLOCIDE

516.004930

DANGER:

MAY CAUSE SEVERE EYE AND SKIN BURNS.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

LABEL IN ACCORDANCE WITH FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE AC

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PAGE 4

REQUIREMENTS:

EPA REGISTRATION NUMBER: 5009-39-40153

EPA EST. NUMBER: 35982-TX-1

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM OXIDIZERS.

STORE IN A COOL WELL VENTILATED LOCATION.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

AVOID BREATHING VAPORS.

CONTAINER DISPOSITION:

TRIPLE RINSE, REUSING RINSE AS PRODUCT. OFFER CONTAINER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL.

* * * * * SECTION X - TRANSPORTATION INFORMATION * * * * *

DOT SHIPPING DESCRIPTION:

CORROSIVE SOLID, TOXIC, N.O.S. - 8 - UN2923 - II
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

IATA SHIPPING DESCRIPTION:

CORROSIVE SOLID, TOXIC, N.O.S. - 8 (6.1) - UN2923 - II
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

IMC SHIPPING DESCRIPTION:

CORROSIVE SOLID, TOXIC, N.O.S.
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE) -
CLASS 8 - UN2923 - II
S 8-15 - MFAG 760

CAN SHIPPING DESCRIPTION:

CORROSIVE SOLID, TOXIC, N.O.S. - CLASS 8 (6.1) - UN2923 - II
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

ADR SHIPPING DESCRIPTION:

2923 CORROSIVE SOLID, TOXIC, N.O.S. - 8, ITEM 75(B) - ADR
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

* * * * * SECTION XI - ENVIRONMENTAL EVALUATION * * * * *

EPA SUPERFUND (SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y
CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIXB. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)
N/AC. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS.

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES: CEPA NE EEC N/D ACQIN N/D NPR NE DRSM NE

PN: 516004930

PAGE 5

F. EXTRACTION METAL AND TRACE CONTENTS

ARSENIC:	IN LIQUID > 5 MG/L	SOLID > 500 MG/KG	NO
BARIUM:	IN LIQUID > 100 MG/L	SOLID > 10000 MG/KG	NO
CADIUM:	IN LIQUID > 1 MG/L	SOLID > 100 MG/KG	NO
CHROMIUM(VI):	IN LIQUID > 5 MG/L	SOLID > 500 MG/KG	NO
CHROMIUM(III):	IN LIQUID > 500 MG/L	SOLID > 2500 MG/KG	NO
LEAD:	IN LIQUID > 5 MG/L	SOLID > 1000 MG/KG	NO
MERCURY:	IN LIQUID > 0.2 MG/L	SOLID > 2000 MG/KG	NO
SELENIUM:	IN LIQUID > 1 MG/L	SOLID > 100 MG/KG	NO
SILVER:	IN LIQUID > 5 MG/L	SOLID > 500 MG/KG	NO
ANTIMONY:	IN LIQUID > 15 MG/L	SOLID > 500 MG/KG	NO
BERYLLIUM:	IN LIQUID > 0.75 MG/L	SOLID > 75 MG/KG	NO
COBALT:	IN LIQUID > 80 MG/L	SOLID > 8000 MG/KG	NO
COPPER:	IN LIQUID > 25 MG/L	SOLID > 2500 MG/KG	NO
FLUORIDE:	IN LIQUID > 180 MG/L	SOLID > 18000 MG/KG	NO
MOLYBDENUM:	IN LIQUID > 350 MG/L	SOLID > 3500 MG/KG	NO
NICKEL:	IN LIQUID > 20 MG/L	SOLID > 2000 MG/KG	NO
THALLIUM:	IN LIQUID > 7 MG/L	SOLID > 700 MG/KG	NO
VANADIUM:	IN LIQUID > 25 MG/L	SOLID > 2400 MG/KG	NO
ZINC:	IN LIQUID > 250 MG/L	SOLID > 5000 MG/KG	NO
CYANIDE:	IN LIQUID > 250 MG/L	SOLID > 250 MG/KG	NO
H ₂ S:	IN LIQUID > 500 MG/L	SOLID > 500 MG/KG	NO
ORGANO-TIN:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
ORGANO-PHOS:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
TIN:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
PERSISTENT ORGANO-HALOGENS:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED

G. OTHER COMPONENTS

CONTAINS BENZENE	NO
CONTAINS TOLUENE	NO
CONTAINS XYLENE	NO
REPORTABLE SPILL QUANTITY FOR BENZENE, TOLUENE, XYLENE	NOT APPLICABLE

H. EPA - RCRA (HAZARDOUS WASTE) 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE

I. UNITED KINGDOM - DOE (CHEMICAL NOTIFICATION SCHEME) TOXICITY CATEGORY

NOT EVALUATED

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR

FN: 516004930

PAGE 6

CUSTOMER. THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

ISD COMPUTING

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

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

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Environmental Bureau
Oil Conservation Division

Form C-15
Originated 8/85

Submit Origin
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Western Atlas
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Facility
2. Management Facility Destination Sundance Services Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 1737 Eunice NM 88231	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 1718 S. Dal Paso Hobbs, Nm 88240	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is for Western Atlas Hobbs Facility. This waste is generated by the washing of trucks in the wash bay. This waste water is then collected into a wash water tank. I have included a certificate of waste status and chain of custody. The generator is in the process of running new analytical results at the present time. It is requested to allow these out of date analytical results for an immediate approval, because of chance of overflow. Sundance Services would like to request approval to accept this material into our Parabo Facility.

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna Roach TITLE: Office Manager DATE: 3-5-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Donna Roach TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____
APPROVED BY: Martyn J. Kelly TITLE: Env. Geologist DATE: 3-15-99



Atlas Wireline Services

To: Donna Roach
From: Western Atlas Logging Service

March 3, 1999

This is a request to dispose of waste water generated from the truck wash bay at the Western Atlas Logging Services Location. This waste was generated from normal operations of Western Atlas.


David Kassisieh

clerk:
6-14
10-14
11-14

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: 1718 S. DAI PASOSOURCE: SumpDISPOSAL LOCATION: Paralel

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

I, the undersigned as the agent for Western Atlas Logging Ser.
concur with the status of the waste from the subject site.

Name DAVID KassisiehTitle/Agency Station ManagerAddress P.O. Box 1858
Hobbs, NM 88240Signature David KassisiehDate 3/3/99

6701 Acetate Avenue

Elbrook, Texas 79424

806•794•1296

FAX 806•794•1298

TRACE ANALYSIS, INC.

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS

Attention: Allen Hodge

P. O. Box 1816

Hobbs, NM 88240

Extraction Date: 01/05/93

Analysis Date: 01/05/93

Sampling Date: 12/24/97

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: Wash Rack

Water Tank

January 08, 1998
Receiving Date: 12/29/97
Sample Type: Water
Project No: Western Alias
Project Location: Hobbs, NM

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	FLASHPOINT (°F)
-----	------------	------------	----------------	----------------	-------------	-----------	-----------------

T88133	Wash Rack	Non-reactive	500	250	Non-corrosive	<2	>140° F
QC	Quality Control		<10	<2.5		7.5	>150

RPD	0	0	0	0	0	0	0
% Extraction Accuracy	---	---	---	---	---	---	---
% Instrument Accuracy	---	---	---	---	---	100	---

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

Director, Dr. Blair Lettich

DATE

1-8-98

TRACE ANALYSIS, INC.

6731 Ainscree Avenue Lubbock, Texas 79424 805-794-1296 FAX 806-794-1298

ANALYTICAL RESULTS FOR WESTERN ENVIRONMENTAL CONSULTANTS

January 08, 1998
Receiving Date: 12/29/97
Sample Type: Water
Project No: Western Atlas
Project Location: Hobbs, NM

Attention: Allen Hodge
P. O. Box 1818
Hobbs, NM 88240

Extraction Date: 12/23/97
Analysis Date: 12/31/97
Sampling Date: 12/24/97
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Wash Rack Water Tank

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cr	Cd	Pb	Ag	Ba	Hg
T88133	EPA LIMIT = Wash Rack	5.0	1.0	5.0	1.0	5.0	5.0	100.0	0.20
QC	Quality Control	0.24	<0.10	0.44	0.34	0.37	<0.05	0.48	<0.01
		5.1	5.1	4.9	5.1	5.1	1.0	5.0	0.050

Reporting Limit 0.10 0.10 0.05 0.02 0.10 0.05 0.10 0.01

RPD	0	0	0	0	0	5	0	0	2
% Extraction Accuracy	100	90	90	90	95	100	90	115	
% Instrument Accuracy	101	102	97	101	102	100	99	100	

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba, RR Hg: SA/RR
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.25 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS QC: 5.0 mg/L As, Se, Cd, Cr, Pb, Ba; 1.0 mg/L Ag; 0.050 mg/L Hg.

Director, Dr. Blair Lettwin

Date

1-8-98

TRACEANALYSIS, INC.

8701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806•378•1298 806•734•1296 FAX 806•794•1298
 4775 Ripley Avenue, Suite A El Paso, Texas 79927 915•588•3443 915•588•3443 FAX 915•588•4944
 E Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR WESTERN ENVIRONMENTAL CONSULTANTS

Attention: Allen Hodge

P. O. Box 1816

Hobbs, NM 88240

January 08, 1998

Receiving Date: 12/29/97

Sample Type: Water

Project No: Western Atlas

Project Location: Hobbs, NM

Extraction Date: 01/02/98

Analysis Date: 01/05/98

Sampling Date: 12/24/97

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: Wash Rack

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T88133 Wash Rack	ac	Water Tank RPD	%EA	%IA
Pyridine	5.0	0.05	ND	83	0	0**	104
1,4-Dichlorobenzene	7.5	0.05	ND	74	7	54	92
o-Cresol	200.0	0.05	ND	76	6	80	95
m,p-Cresol	200.0	0.05	ND	70	3	143	88
Hexachloroethane	3.0	0.05	ND	70	4	63	88
Nitrobenzene	2.0	0.05	ND	78	1	69	98
Hexachlorobutadiene	0.5	0.05	ND	69	6	51	86
2,4,6-Trichlorophenol	2.0	0.05	ND	76	0	72	95
2,4,5-Trichlorophenol	400.0	0.05	ND	82	2	80	102
2,4-Dinitrotoluene	0.13	0.05	ND	78	0	78	98
2,4-D	10.0	0.05	ND	68	2	210	85
Hexachlorobenzene	0.13	0.05	ND	68	3	62	85
2,4,6-TP	1.0	0.05	ND	85	1	436	108
Pentachlorophenol	100.0	0.05	ND	89	12	53	111

Surrogates

% RECOVERY

2-Fluorophenol	14*
Phenol-d6	11
Nitrobenzene-d5	32*
2-Fluorobiphenyl	30*
2,4,6-Tribromophenol	29
Terphenyl-d14	60

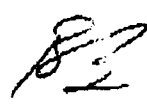
ND - Not Detected

*NOTE: Surrogate recovery out of standard range.

**NOTE: Extraction Accuracy out of standard range due to matrix effects encountered in sample.

Methods: EPA SW 846-1311, 8270.

CHEMIST: RP/JG


 Director, Dr. Blair Leftwich

 1-8-98
 DATE

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1296
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888-588-3443 915-585-3443 FAX 915-585-4944

ANALYTICAL RESULTS FOR WESTERN ENVIRONMENTAL CONSULTANTS

Attention: Allen Hodge
 P. O. Box 1816
 Hobbs, NM 88240

January 08, 1998
 Receiving Date: 12/29/97
 Sample Type: Water
 Project No: Western Atlas
 Project Location: Hobbs, NM

Extraction Date: 12/30/97
 Analysis Date: 12/31/97
 Sampling Date: 12/24/97
 Sample Condition: I & C
 Sample Received by: VW
 Project Name: Wash Rack
 Water Tank

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T88133 Wash Rack	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	85	10	92	85
1,1-Dichloroethene	0.70	0.05	ND	86	1	80	96
Methyl Ethyl Ketone	200.0	0.5	ND	88	1	106	88
Chloroform	8.00	0.05	ND	93	2	94	93
1,2-Dichloroethane	0.50	0.05	ND	93	4	97	93
Benzene	0.60	0.05	ND	96	1	97	96
Carbon Tetrachloride	0.50	0.05	ND	117	4	108	117
Trichloroethene	0.50	0.05	0.11	96	2	97	96
Tetrachloroethene	0.70	0.05	ND	99	0	103	99
Chlorobenzene	100.00	0.05	ND	102	1	100	102
1,4-Dichlorobenzene	7.50	0.05	ND	104	3	104	104

SURROGATES	% Recovery
Dibromofluoromethane	89
Toluene-d8	93
4-Bromofluorobenzene	96

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
 CHEMIST: RW


 Director, Dr. Blair Leftwich

1-8-98
 DATE

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

Submit Origin
Plus 1 Co
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Dresser Oil Tools
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs yard
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter Key Energy
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 3311 Industrial Drive Hobbs, NM 88240	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are for Dresser Oil Tools hobbs facility. This waste was generated by the washing of oilfield downhole tools. I have included a chain of custody and certificate of waste status. Sundance would like approval to accept this material into our Parabo Facility.

RECEIVED

DEC 20 1999

Environmental Bureau
Oil Conservation Division

Estimated Volume 75 bbls. cy Known Volume (to be entered by the operator at the end of the haul) cy

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 12-14-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 12-16-99
APPROVED BY: [Signature] TITLE: Env. Bureau Chief DATE: 12/22/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Dresser Oil toolsADDRESS 3311 Industrial Dr, Hobbs, NMGENERATING SITE SameCOUNTY Lea STATE NMTYPE OF WASTE Vat / SumpESTIMATED VOLUME 75 bblsGENERATING PROCESS Washing of oil field tools
(Downhole)

REMARKS

NMOCD FACILITY Sundancer ServicesTRUCKING COMPANY Key

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT

SIGNATURE

NAME

PRINTED

ADDRESS 5801 Livingston HwyHobbs, NM 88240DATE 12-13-99

Page ____ of ____

(915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 393-2476

FOR LAB USE ONLY	MATRIX	PRES.	SAMPLING
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[illegible]

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Time 11:11

Delivered BY: (Circle One)

Sample Condition

Cool Intact

CHECKED BY: (Initials)

[illegible]

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

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



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

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

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 12/01/99
Reporting Date: 12/03/99
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: DRESSER OIL TOOLS

Sampling Date: 12/01/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH/GP
Analyzed By: AH/GP

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		12/02/99	12/02/99	12/02/99	12/02/99	12/02/99	12/02/99	12/02/99	12/02/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4486-1	SUMP	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.197	4.831	24.70	0.974	5.013	4.553	0.0115	0.191
True Value QC		0.200	5.000	25.00	1.000	5.000	5.000	0.0100	0.200
% Recovery		99	97	99	97	100	91	115	96
Relative Standard Deviation		1.2	0.3	0.6	0.2	0.5	1.6	1.3	2.5
METHODS: EPA 1311, 600/4-91/		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Gayle A. Potter
Gayle A. Potter, Chemist

12/04/99
Date

H4486M.XLS

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

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 12/01/99
Reporting Date: 12/08/99
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: DRESSER OIL TOOLS
Lab Number: H4486-1
Sample ID: SUMP

Analysis Date: 12/04/99
Sampling Date: 12/01/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH/GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4486-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.250	<0.005	0.097	97	0.100
1,1-Dichloroethylene	0.7	<0.250	<0.005	0.101	101	0.100
Methyl Ethyl Ketone	200	<2.50	<0.050	0.086	86	0.100
Chloroform	6.0	<0.250	<0.005	0.097	97	0.100
1,2-Dichloroethane	0.5	<0.250	<0.005	0.103	103	0.100
Benzene	0.5	<0.250	<0.005	0.097	97	0.100
Carbon Tetrachloride	0.5	<0.250	<0.005	0.112	112	0.100
Trichloroethylene	0.5	<0.250	<0.005	0.098	98	0.100
Tetrachloroethylene	0.7	<0.250	<0.005	0.114	114	0.100
Chlorobenzene	100	<0.250	<0.005	0.102	102	0.100
1,4-Dichlorobenzene	7.5	<0.250	<0.005	0.099	99	0.100

% RECOVERY

Dibromofluoromethane	106
Toluene-d8	89
Bromofluorobenzene	97

METHODS: EPA SW 846-8260, 1311

NOTE: Sludge was 80% liq., 20% solid; results are a weighted average from separate analyses.

Matrix interference (foaming) observed; dilution required.

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

12/6/99
Date

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ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 12/01/99
Reporting Date: 12/03/99
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: DRESSER OIL TOOLS
Lab Number: H4486-1
Sample ID: SUMP

Analysis Date: 12/02/99
Sampling Date: 12/01/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH/GP
Analyzed By: BC

TCMP SEMIVOLATILES (ppm) EPA LIMIT Sample Result Method True Value
H4486-1 Blank QC % Recov. QC

Pyridine	5.00	<0.050	<0.005	0.008	12	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.038	72	0.050
o-Cresol	200	<0.050	<0.005	0.017	34	0.050
m, p-Cresol	200	0.125	<0.005	0.017	34	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.027	54	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.034	68	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.034	68	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.032	64	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.038	72	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.045	90	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.044	88	0.050
Pentachlorophenol	100	<0.050	<0.005	0.040	80	0.050

% RECOVERY

Fluorophenol	73
Phenol-d5	55
Nitrobenzene-d5	92
2-Fluorobiphenyl	88
2,4,6-Tribromophenol	101
Terphenyl-d14	106

METHODS: EPA SW 846-8270, 1311, 3510

NOTE: Sludge was 80% liq., 20% solid; results are a weighted average from separate analyses.

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

12/3/99
Date

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ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY.
HOBBS, NM 88240
FAX TO:

Receiving Date: 12/01/99
Reporting Date: 12/03/99
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: DRESSER OIL TOOLS

Sampling Date: 12/01/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH/GP
Analyzed By: AH/BC

REACTIVITY

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

ANALYSIS DATE:	12/03/99	12/03/99	12/02/99	12/02/99
H4486-1 SUMP	Not reactive	Not reactive	7.08	>140
Quality Control	NR	NR	7.02	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	100	NR
Relative Percent Difference	NR	NR	0.3	NR

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

Chemist

Date

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

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

Form C-13
Originated 8/8/9

Submit Origin:
Plus 1 Cop
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator ELECTRIC SUBMERSIBLE
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS LOCATION
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter LUCKY
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 8426 NORTH DAL PASO HOBBS, NM 88240	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Electric Submersible Pump's Hobbs facility. This waste is generated by the washing off of oil field rental tools. All equipment is washed into the sump and pumped to a waste water tank outside the building in a bermed area. I have attached a certificate of waste and chain of custody. There are two different lab results. Sundance would like approval to accept this material into our Parabo facility.,

Estimated Volume 240 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 1-18-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____
APPROVED BY: Monty J. Hill TITLE: Env Geologist DATE: 1-27-99

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

ORIGINATING LOCATION: ESP, Hobbs N.M.SOURCE: Oil Field RinseateDISPOSAL LOCATION: Sundance Services
Funce N.M. 88231

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

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

Name: Russell SelfTitle/Agency: Shop ManagerAddress: 8426 N. JAL P.O.Signature: Russell SelfDate: 1-5-99



*Hobbs test water
Analysis 1998*

1703 West Industrial P.O. Box 2150 • Midland, Texas 79701 • 915/681-1249 FAX 915/686-0492

Client Robert Lannon
Electric Submersible Pumps
P.O. Box 80230
Midland, TX 79708

Customer No. 107198
Report No. MG-02-087
Report Date 01/23/98 11:16

Project Hobbs, SW Facility

Phone: 915-699-7401 Fax: 915-699-4159

Date Sampled 01/27/98

90)

Sampled By Unknown

Sample Type WATER

Transported by Client

F.O. #

Date Received 02/12/98

Lab No.

MG-02-087-01

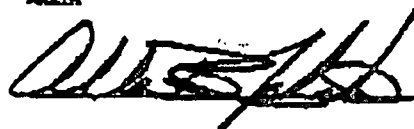
Sample Identification

Electric Submersible Pumps

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Revised By

MAXIM


ALLAN E. JOHNSTON

PAGE 04

Report No. MS-22-087

Page 2 of 3

03/23/98 11:15

TEST RESULTS BY SAMPLE

Client: Electric Submersible Pumps

Sample: OILX Process WATER

Collected: 01/27/98

Category: W

Job: TULSAH TCLP Metals - Liquid

TEST NAME	Method	Result	Units	Detection Data		
				Limit	Sampled	Analyzed
TCLP ARSENIC	SW-846, 7060A	< 0.04	mg/l.	.04	n 44	01/11/98 ABJ
TCLP BARIUM	SW-846, 7060A	< 1	mg/L	1	1	03/02/98 WJT
TCLP CADMIUM	SW-846, 7130	< 0.05	mg/l.	0.05	0.05	03/04/98 WJT
TCLP CHROMIUM	SW-846, 7130	< 0.1	mg/L	0.1	0.1	03/06/98 WJT
TCLP COBALT	SW-846, 7430	< 0.4	mg/L	0.4	0.4	03/06/98 WJT
TCLP MERCURY	SW-846, 7470A	< 0.002	mg/L	0.002	0.002	03/13/98 CT
TCLP NICKEL	SW-846, 7130	< 0.05	mg/L	0.05	0.05	03/14/98 ABJ
TCLP SILVER	SW 846, 7760	< 0.02	mg/L	0.02	0.02	03/06/98 WJT

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200-10

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Report No. NE-02-087

01/23/98 11:16

TEST RESULTS BY SAMPLE

Client: Electric Submersible Pumps

Sample Description: Process Water

Lab No: 012

Method: SW-846

Test Code: TCLP M

Test Description: TCLP METALS

Collected: 01/27/98 10:00

Category: M

Element	Result	Regulatory Limit	Units	Date Sampled	Analyst	Method
TCLP METALS						
ARSENIC	0.04	5.0	mg/L	01/13/98	AMY	SW-846, 7050
BARIUM	1	100	mg/L	01/03/98	AMY	SW-846, 7012
CADMIUM	0.05	1.0	mg/L	01/06/98	AMY	SW-846, 7012
CHROMIUM	0.1	5.0	mg/L	01/06/98	AMY	SW-846, 7190
COPPER	0.4	1.0	mg/L	01/06/98	AMY	SW-846, 7430
MERCURY	0.002	0.2	mg/L	01/13/98	CM	SW-846, 7470
SELENIUM	0.05	1.0	mg/L	01/14/98	AMY	SW-846, 7710
SILVER	0.02	5.0	mg/L	01/06/98	AMY	SW-846, 7760

All less than

METALS ANALYTICAL VARIANCE

TEST: ICP FLAA COLORIMETRIC DATE: 03/06/98

PARAMETERS: Ag

SAMPLES AFFECTED: 741-02-087; 088; 089

CLIENTS AFFECTED: ESP

PREPARATION	ANALYSIS
☐ NO BLANK ☐ NO LCS ☐ NO DUPLICATE ☐ NO SPIKE ☐ DIGESTION METHOD CHANGED ☐ WRONG ACID GRADE OR TYPE ☐ OTHER (DESCRIBE BELOW)	☐ CURVE < 0.995 ☐ ICS OUT OF CONTROL ($\pm 20\%$) OR MISSING ☐ ICV OUT OF CONTROL ($\pm 20\%$) OR MISSING ☐ CCV OUT OF CONTROL ($\pm 10\%$ FOR ICP $\pm 20\%$ FOR AA) ☐ LCS OUT OF CONTROL ($\pm 20\%$ OR $\pm 30\%$ FOR Ag & Sb) ☐ ICE/CCB OUT OF CONTROL ($>$ DETECTION LIMIT) ☐ CRDL OUT OF CONTROL ($\pm 200\%$) OR MISSING ☐ PREP BLANK OUT OF CONTROL ($>$ CRDL) OR MISSING ☐ DUPLICATE OUT OF CONTROL ($\pm 20\%$ RSD) OR MISSING ☒ SPIKE OUT OF CONTROL ($\pm 20\%$ FOR ICP, $\pm 25\%$ FOR AA) OR MISSING ☐ OTHER (DESCRIBE TO LEFT)

REASON	CORRECTIVE ACTION
☐ INSUFFICIENT SAMPLE FOR QC ☐ AT REQUEST OF CLIENT ☒ MATRIX INTERFERENCE VERIFIED BY: ☒ BENCH SPIKE ☐ STANDARD ADDITIONS ☐ SERIAL DILUTION ☐ DIGESTION ERROR ☐ ANALYTICAL ERROR ☐ OTHER (DESCRIBE BELOW)	☐ RE-DIGEST AND RE-ANALYZE SAMPLE ☐ RE-DIGEST AND RE-ANALYZE BATCH ☐ RE-DIGEST AND RE-ANALYZE SPIKE/DUPL ☐ RE-CALIBRATE ☐ RE-ANALYZE SAMPLE, BATCH, OR QC ☐ VERIFY DI WATER IS OKAY ☒ BENCH SPIKE FOR SAMPLE BATCH ☒ ACCEPT DATA, NONCONFORM REPORT IN FILE ☐ OTHER (DESCRIBE BELOW)

COMMENTS: M. Spk too low (probably due to Cl⁻ interference)
I. Spk was ok (102.8% Rec.)

ANALYST: [Signature]
 SUPERVISOR: [Signature]
 QA/QC: _____

File to: Project Files (copies)
 Metals Logbook (original)



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(815) 673-7001 Fax (815) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2[illegible]

ESP, INC. HOBBS

TEL: 1-505-592-8190

* Cardinal cannot accept verbal changes. Please fax written changes to 616-673-7020.



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ANALYTICAL RESULTS FOR ELECTRIC SUBMERSIBLE PUMPS, INC.

Receiving Date: 07/08/98
Reporting Date: 07/08/98
Project Owner: ESP
Project Name: WATER SEM.
Project Location: HOBBS
Lab Number: H3713-1
Sample ID: WATER FROM SYSTEM

ATTN: RUSSELL SELF
3526 N. DAL PASO
HOBBS, NM 88240
FAX TO: (505) 392-8190

Analysis Date: 07/06/98
Sampling Date: 07/06/98
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

SEMIVOLATILES - 8270 (mg/L)	Sample Result H3713-1	Method Blank	QC	True Value	
				% Recov.	QC
1 n-Nitrosodimethylamine	<0.005	<0.005	0.033	66	0.050
2 2-Picoline	<0.005	<0.005	0.019	38	0.050
3 Methylmethanesulfonate	<0.005	<0.005	0.032	64	0.050
4 Ethylmethanesulfonate	<0.005	<0.005	0.034	68	0.050
5 Phenol	<0.005	<0.005	0.041	82	0.050
6 Aniline	<0.005	<0.005	0.026	52	0.050
7 bis (2-Chloroethyl) ether	<0.005	<0.005	0.036	72	0.050
8 2-Chlorophenol	<0.005	<0.005	0.031	62	0.050
9 1,4-Dichlorobenzene	<0.005	<0.005	0.033	66	0.050
10 1,3-Dichlorobenzene	<0.005	<0.005	0.033	66	0.050
11 Benzyl Alcohol	<0.005	<0.005	0.032	64	0.050
12 1,2-Dichlorobenzene	<0.005	<0.005	0.032	64	0.050
13 2-Methylphenol	<0.005	<0.005	0.033	66	0.050
14 bis (2-Chloroisopropyl) ether	<0.005	<0.005	0.033	66	0.050
15 Acetophenone	<0.005	<0.005	0.034	68	0.050
16 4-Methylphenol	<0.005	<0.005	0.036	70	0.050
17 n-Nitroso-di-n-propylamine	<0.005	<0.005	0.041	82	0.050
18 Hexachloroethane	<0.005	<0.005	0.032	64	0.050
18 Nitrobenzene	<0.005	<0.005	0.035	70	0.050
20 n-Nitrosopiperidine	<0.005	<0.005	0.039	78	0.050
21 Isophorone	<0.005	<0.005	0.040	80	0.050
22 2-Nitrophenol	<0.005	<0.005	0.035	70	0.050
23 2,4-Dimethylphenol	<0.005	<0.005	0.039	78	0.050
24 Benzoic acid	<0.005	<0.005	0.003	6	0.050
25 bis (2-Chloroethoxy) methane	<0.005	<0.005	0.036	72	0.050
26 2,4-Dichlorophenol	<0.005	<0.005	0.038	76	0.050
27 1,2,4-Trichlorobenzene	<0.005	<0.005	0.036	72	0.050
28 Naphthalene	<0.005	<0.005	0.038	76	0.050
29 4-Chloroaniline	<0.005	<0.005	0.029	58	0.050
30 2,6-Dichlorophenol	<0.005	<0.005	0.038	76	0.050
31 Hexachlorobutadiene	<0.005	<0.005	0.034	68	0.050
32 n-Nitroso-di-n-butylamine	<0.005	<0.005	0.042	84	0.050
33 4-Chloro-3-methylphenol	<0.005	<0.005	0.045	90	0.050
34 2-Methylnaphthalene	<0.005	<0.005	0.038	76	0.050
35 1,2,4,5-Tetrachlorobenzene	<0.005	<0.005	0.038	76	0.050
36 Hexachlorocyclopentadiene	<0.005	<0.005	0.028	52	0.050
37 2,4,6-Trichlorophenol	<0.005	<0.005	0.036	72	0.050

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ANALYTICAL RESULTS FOR ELECTRIC SUBMERSIBLE PUMPS, INC.

Receiving Date: 07/06/98

Reporting Date: 07/08/98

Project Owner: ESP

Project Name: WATER SEM.

Project Location: HOBBS

Lab Number: H3713-1

Sample ID: WATER FROM SYSTEM

ATTN: RUSSELL SELF

3526 N. DAL PASO

HOBBS, NM 88240

FAX TO: (505) 392-8190

Analysis Date: 07/06/98

Sampling Date: 07/06/98

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

SEMIVOLATILES - 8270 (mg/L)

	Sample Result H3713-1	Method Blank	QC	% Recov.	True Value QC
38 2,4,5-Trichlorophenol	<0.005	<0.005	0.040	80	0.050
39 2-Chloronaphthalene	<0.005	<0.005	0.038	76	0.050
40 2-Nitroaniline	<0.005	<0.005	0.042	84	0.050
41 Acenaphthylene	<0.005	<0.005	0.039	78	0.050
42 Dimethylphthalate	<0.005	<0.005	0.046	92	0.050
43 2,6-Dinitrotoluene	<0.005	<0.005	0.047	94	0.050
44 3-Nitroaniline	<0.005	<0.005	0.036	72	0.050
45 Acenaphthene	<0.005	<0.005	0.040	80	0.050
46 2,4-Dinitrophenol	<0.005	<0.005	0.032	64	0.050
47 Dibenzofuran	<0.005	<0.005	0.038	78	0.050
48 Pentachlorobenzene	<0.005	<0.005	0.039	78	0.050
49 4-Nitrophenol	<0.005	<0.005	0.044	88	0.050
50 1-Naphthylamine	<0.005	<0.005	0.032	64	0.050
51 2,4-Dinitrotoluene	<0.005	<0.005	0.045	90	0.050
52 2-Naphthylamine	<0.005	<0.005	0.029	58	0.050
53 2,3,4,6-Tetrachlorophenol	<0.005	<0.005	0.037	74	0.050
54 Fluorene	<0.005	<0.005	0.042	84	0.050
55 4-Chlorophenyl-phenylether	<0.005	<0.005	0.040	80	0.050
56 Diethylphthalate	<0.005	<0.005	0.044	88	0.050
57 4-Nitroaniline	<0.005	<0.005	0.036	72	0.050
58 4,6-Dinitro-2-methylphenol	<0.005	<0.005	0.039	78	0.050
59 Diphenylamine	<0.005	<0.005	0.043	86	0.050
60 o-Nitrosodiphenylamine	<0.005	<0.005	0.043	86	0.050
61 4-Bromophenyl-phenylether	<0.005	<0.005	0.043	86	0.050
62 Phenacetin	<0.005	<0.005	0.043	86	0.050
63 Hexachlorobenzene	<0.005	<0.005	0.040	80	0.050
64 4-Aminobiphenyl	<0.005	<0.005	0.043	86	0.050
65 Pentachlorophenol	<0.005	<0.005	0.039	78	0.050
66 Pentachloronitrobenzene	<0.005	<0.005	0.039	78	0.050
67 Pronamide	<0.005	<0.005	0.046	92	0.050
68 Phenanthrene	<0.005	<0.005	0.042	84	0.050
69 Anthracene	<0.005	<0.005	0.048	96	0.050
70 Di-n-butylphthalate	0.009	<0.005	0.062	104	0.050
71 Fluoranthene	<0.005	<0.005	0.043	86	0.050
72 Benzidine	<0.005	<0.005	0.019	38	0.050
73 Pyrene	<0.005	<0.005	0.044	88	0.050
74 p-(Dimethylamino)azobenzene	<0.005	<0.005	0.049	98	0.050

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ANALYTICAL RESULTS FOR ELECTRIC SUBMERSIBLE PUMPS, INC.

Receiving Date: 07/06/98
Reporting Date: 07/08/98
Project Owner: ESP
Project Name: WATER SEM.
Project Location: HOBBS
Lab Number: H3713-1
Sample ID: WATER FROM SYSTEM

ATTN: RUSSELL SELF
3526 N. DAL PASO
HOBBS, NM 88240
FAX TO: (505) 392-8190

Analysis Date: 07/06/98
Sampling Date: 07/06/98
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

SEMIVOLATILES - 8270 (mg/L)	Sample Result H3713-1	Method Blank	QC	% Recov.	True Value QC
75 Butylbenzylphthalate	<0.005	<0.005	0.053	106	0.050
76 Benzo[a]anthracene	<0.005	<0.005	0.045	90	0.050
77 3,3'-Dichlorobenzidine	<0.005	<0.005	0.040	80	0.050
78 Chrysene	<0.005	<0.005	0.048	96	0.050
79 bis (2-Ethylhexyl) phthalate	0.008	<0.005	0.059	118	0.050
80 Di-n-octylphthalate	<0.005	<0.005	0.044	88	0.050
81 Benzo [b] fluoranthene	<0.005	<0.005	0.040	80	0.050
82 Benzo [k] fluoranthene	<0.005	<0.005	0.044	88	0.050
83 7,12-Dimethylbenz (a) anthracene	<0.005	<0.005	0.041	82	0.050
84 Benzo [a] pyrene	<0.005	<0.005	0.042	84	0.050
85 3-Methylcholanthrene	<0.005	<0.005	0.046	92	0.050
86 Dibenzo (a,j) acridine	<0.005	<0.005	0.022	44	0.050
87 Indeno [1,2,3-cd] pyrene	<0.005	<0.005	0.039	78	0.050
88 Dibenz [a,h] anthracene	<0.005	<0.005	0.046	92	0.050
89 Benzo [g,h,i] perylene	<0.005	<0.005	0.049	98	0.050

	% Recovery
90 2-Fluorophenol	50
91 Phenol-d5	46
92 Nitrobenzene-d5	82
93 2-Fluorobiphenyl	81
94 2,4,6-Tribromophenol	94
95 Terphenyl-d14	98

METHODS: EPA SW 846-8270

Burgess J.A. Coyle, Ph. D.
Burgess J.A. Coyle, Ph. D.

7/8/98
Date

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**ANALYTICAL RESULTS FOR
ELECTRIC SUBMERSIBLE PUMPS, INC.
ATTN: RUSSELL SELF
3526 N. DAL PASO
HOBBS, NM 88240
FAX TO: (505) 392-8190**

Receiving Date: 07/08/98
Reporting Date: 07/08/98
Project Owner: ESP
Project Name: WATER SEM.
Project Location: HOBBS
Lab Number: H3713-1
Sample ID: WATER FROM SYSTEM

Analysis Date: 07/08/98
Sampling Date: 07/06/98
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

VOLATILES - 8260 (ppm) **Sample Result** **Method** **QC %Recov.** **True Value**
H3713-1 Blank QC

1	Dichlorodifluoromethane	<0.002	<0.002	0.081	81	0.100
2	Chloromethane	<0.002	<0.002	0.092	92	0.100
3	Vinyl chloride	<0.002	<0.002	0.083	83	0.100
4	Bromomethane	<0.002	<0.002	0.099	99	0.100
5	Chloroethane	<0.002	<0.002	0.099	99	0.100
6	Iodomethane	<0.002	<0.002	0.098	98	0.100
7	1,1-Dichloroethene	<0.002	<0.002	0.098	98	0.100
8	Trichlorofluoromethane	<0.002	<0.002	0.097	97	0.100
9	Carbon Disulfide	<0.002	<0.002	0.090	90	0.100
10	Methylene chloride	0.005*	0.008	0.090	90	0.100
11	trans-1,2-Dichloroethene	<0.002	<0.002	0.089	89	0.100
12	1,1-Dichloroethane	<0.002	<0.002	0.090	90	0.100
13	2-Butanone	<0.050	<0.050	0.105	105	0.100
14	cis-1,2-Dichloroethene	<0.002	<0.002	0.089	89	0.100
15	2,2-Dichloropropane	<0.002	<0.002	0.095	95	0.100
16	Chloroform	<0.002	<0.002	0.089	89	0.100
17	Bromochloromethane	<0.002	<0.002	0.087	87	0.100
18	1,1,1-Trichloroethane	<0.002	<0.002	0.092	92	0.100
19	1,2-Dichloroethane	<0.002	<0.002	0.090	90	0.100
20	1,1-Dichloropropene	<0.002	<0.002	0.087	87	0.100
21	Benzene	<0.002	<0.002	0.091	91	0.100
22	Carbon tetrachloride	<0.002	<0.002	0.091	91	0.100
23	Trichloroethene	0.002	<0.002	0.091	91	0.100
24	Dibromomethane	<0.002	<0.002	0.086	86	0.100
25	Bromodichloromethane	<0.002	<0.002	0.087	87	0.100
26	(2-Chloroethoxy)ethene	<0.002	<0.002	0.089	89	0.100
27	trans-1,3-Dichloropropene	<0.002	<0.002	0.094	94	0.100
28	4-methyl-2-pentanone	<0.050	<0.050	0.114	114	0.100
29	1,2-Dichloropropane	<0.002	<0.002	0.091	91	0.100
30	cis-1,3-Dichloropropene	<0.002	<0.002	0.098	98	0.100
31	Toluene	<0.002	<0.002	0.096	96	0.100

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**ANALYTICAL RESULTS FOR
ELECTRIC SUBMERSIBLE PUMPS, INC.
ATTN: RUSSELL SELF
3526 N. DAL PASO
HOBBS, NM 88240
FAX TO: (505) 392-8190**

Receiving Date: 07/06/98
Reporting Date: 07/08/98
Project Owner: ESP
Project Name: WATER SEM.
Project Location: HOBBS
Lab Number: H3713-1
Sample ID: WATER FROM SYSTEM

Analysis Date: 07/06/98
Sampling Date: 07/06/98
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

VOLATILES - 8260 (ppm)		Sample Result H3713-1	Method Blank	QC %Recov.	True Value QC	
32	1,1,2-Trichloroethane	<0.002	<0.002	0.095	95	0.100
33	1,3-Dichloropropane	<0.002	<0.002	0.094	94	0.100
34	2-Hexanone	<0.050	<0.050	0.115	115	0.100
35	Dibromochloromethane	<0.002	<0.002	0.091	91	0.100
36	1,2-Dibromoethane	<0.002	<0.002	0.094	94	0.100
37	Tetrachloroethane	<0.002	<0.002	0.095	95	0.100
38	Chlorobenzene	<0.002	<0.002	0.095	95	0.100
39	1,1,1,2-Tetrachloroethane	<0.002	<0.002	0.093	93	0.100
40	Ethylbenzene	<0.002	<0.002	0.097	97	0.100
41	m, p - Xylene	<0.004	<0.004	0.194	97	0.200
42	Bromoform	<0.002	<0.002	0.097	97	0.100
43	Styrene	<0.002	<0.002	0.094	94	0.100
44	o-Xylene	<0.002	<0.002	0.097	97	0.100
45	1,1,2,2-Tetrachloroethane	<0.002	<0.002	0.092	92	0.100
46	1,2,3-Trichloropropane	<0.002	<0.002	0.090	90	0.100
47	Isopropylbenzene	<0.002	<0.002	0.100	100	0.100
48	Bromobenzene	<0.002	<0.002	0.097	97	0.100
49	2-Chlorotoluene	<0.002	<0.002	0.098	98	0.100
50	n-propylbenzene	<0.002	<0.002	0.101	101	0.100
51	4-Chlorotoluene	<0.002	<0.002	0.100	100	0.100
52	1,3,5-Trimethylbenzene	<0.002	<0.002	0.099	99	0.100
53	tert-Butylbenzene	<0.002	<0.002	0.102	102	0.100
54	1,2,4-Trimethylbenzene	<0.002	<0.002	0.104	104	0.100
55	1,3-Dichlorobenzene	<0.002	<0.002	0.098	98	0.100
56	sec-Butylbenzene	<0.002	<0.002	0.099	99	0.100
57	1,4 Dichlorobenzene	0.004*	0.005	0.098	98	0.100
58	4-Isopropyltoluene	<0.002	<0.002	0.100	100	0.100
59	1,2-Dichlorobenzene	<0.002	<0.002	0.099	99	0.100
60	n-Butylbenzene	<0.002	<0.002	0.100	100	0.100
61	1,2-dibromo-3-chloropropane	<0.002	<0.002	0.094	94	0.100
62	1,2,3-Trichlorobenzene	<0.002	<0.002	0.096	96	0.100

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ARDINAL LABORATORIES

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

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

**ANALYTICAL RESULTS FOR
ELECTRIC SUBMERSIBLE PUMPS, INC.**

ATTN: RUSSELL SELF

3528 N. DAL PASO

HOBBS, NM 88240

FAX TO: (505) 382-8180

Receiving Date: 07/08/88

Reporting Date: 07/08/98

Project Owner: ESP

Project Name: WATER SEM.

Project Location: HOBBS

Lab Number: H3713-1

Sample ID: WATER FROM SYSTEM

Analysis Date: 07/06/98

Sampling Date: 07/08/98

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

VOLATILES - 8260 (ppm)

Sample Result
H3713-1

Method Blank

QC %Recov.

True Value
QC

63	Hexachlorobutadiene	<0.002	<0.002	0.094	84	0.100
64	Naphthalene	<0.002	<0.002	0.097	97	0.100
65	1,2,4-Trichlorobenzene	<0.002	<0.002	0.097	97	0.100

% Recovery

66	Dibromofluoromethane	112
67	Toluene-D8	116
68	4-Bromofluorobenzene	114

METHODS: EPA SW-846-8260.

*Compound also detected in the method blank

Burgess J. A. Cooke, Ph.D.

7/8/98
Date

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