

NM1 - 3

C-138

YEAR(S):

2002-2003

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

State of New Mexico
Energy Minerals and Natural Resources

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Form C-13
Revised March 17, 1999

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

DEC 03 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

OIL CONSERVATION
DIVISION

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	4. Generator Electric Submersible Pump 5. Originating Site Hobbs Pump 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 New Mexico 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 oilfield 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 status and chain of custody. Sundance would like approval to accept this material into our Parabo Disposal Facility.

Estimated Volume 240 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Donna Roach TITLE: President DATE: 11-20-03
 Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Donna Roach TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: Environ EPER DATE: 12-1-03
 APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 12-3-03

120303-1

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: WOOD GROW ESP 8426 N. DAL PASO Hobbs n.m. 88249

SOURCE: OILFIELD RINSATE

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 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 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 WOOD GROW ESP
concur with the status of the waste from the subject site.

Name - RANDY HINDS
Title/Agency SUPERVISOR/ESP
Address 8426 N DAL PASO
HOBBS N.M. 88249
Signature Randy Hinds
Date 11-20-03



PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

**ANALYTICAL RESULTS FOR
ESP**

ATTN: RANDY HINDS
8426 N. DAL PASO
HOBBS, NM 88240
FAX TO:

Receiving Date: 08/29/02
Reporting Date: 09/03/02
Project Number: NOT GIVEN
Project Name: PUMP TESTING WATER
Project Location: NOT GIVEN

Sampling Date: 08/29/02
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

REACTIVITY

LAB NO. SAMPLE ID	REACTIVITY			
	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:	08/30/02	08/30/02	08/29/02	08/30/02
H6992-1 -	Not reactive	Not reactive	6.80	>140
Quality Control	NR	NR	7.04	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	101	NR
Relative Percent Difference	NR	NR	0.1	NR

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

Bryan J. Lath

Chemist

9/3/02

Date

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



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ANALYTICAL RESULTS FOR

ESP
 ATTN: RANDY HINDS
 8426 N. DAL PASO
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 08/29/02
 Reporting Date: 08/30/02
 Project Number: NOT GIVEN
 Project Name: PUMP TESTING WATER
 Project Location: NOT GIVEN
 Lab Number: H6992-1
 Sample ID: -

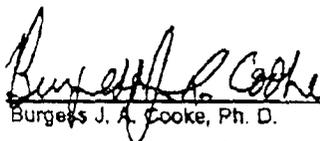
Analysis Date: 08/29/02
 Sampling Date: 08/29/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6992-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.108	109	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.096	95	0.100
Methyl Ethyl Ketone	200	<0.050	<0.060	0.064	84	0.100
Chloroform	6.0	<0.005	<0.005	0.067	87	0.100
1,2-Dichloroethane	0.5	<0.006	<0.005	0.090	90	0.100
Benzene	0.6	<0.005	<0.005	0.114	114	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.109	109	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.098	98	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.091	91	0.100

% RECOVERY

Dibromofluoromethane	95
Toluene-d8	118
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311


 Burgess J. A. Cooke, Ph. D.

8/30/02
 Date

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ANALYTICAL RESULTS FOR
ESP

ATTN: RANDY HINDS
8426 N. DAL PASO
HOBBS, NM 88240
FAX TO:

Receiving Date: 08/29/02
Reporting Date: 08/30/02
Project Number: NOT GIVEN
Project Name: PUMP TESTING WATER
Project Location: NOT GIVEN
Lab Number: H6902-1
Sample ID: -

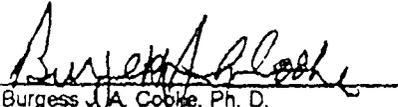
Analysis Date: 08/29/02
Sampling Date: 08/28/02
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6992-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.041	82	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.033	66	0.050
o-Cresol	200	<0.050	<0.005	0.044	88	0.050
m, p-Cresol	200	<0.050	<0.005	0.041	82	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.029	58	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.044	88	0.050
Hexachloro-1,3-butadiene	0.600	<0.050	<0.005	0.033	88	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.053	106	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.052	104	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.053	106	0.050
Pentachlorophenol	100	<0.050	<0.005	0.046	92	0.050

% RECOVERY

Fluorophenol	56
Phenol-d5	42
Nitrobenzene-d5	93
2-Fluorobiphenyl	89
2,4,6-Tribromophenol	112
Terphenyl-d14	74

METHODS: EPA SW-848 1311, 8270, 3510


Burgess J.A. Cobble, Ph. D.

8/30/02
Date

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oods, NM 88241-1980
 District II - (505) 748-1283
 811 S. First
 Hobbs, 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

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OIL CONSERVATION
 DIVISION

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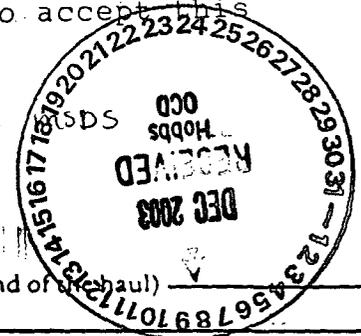
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Halliburton
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	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 88231g. 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.	
<input checked="" type="radio"/> 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 disposal. 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.

PLEASE reference last approval dated 11-3-03 for



Estimated Volume 400 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: 12-5-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enriquez ETR DATE: 12.8.03

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 12/15/03

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Cement

ESTIMATED VOLUME: 20,000 SACKS

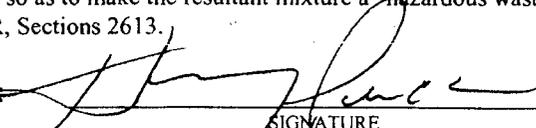
GENERATING PROCESS: Unused cement

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Halliburton

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 of 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: HARVEY PRICE

PRINTED

ADDRESS: 5801 Lovington Hwy

DATE: 12/3/2003

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

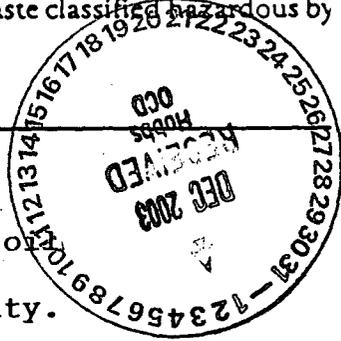
Energy Minerals and Natural Resources Department
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 Oil Conservation Division
 2040 South Pacheco Street
 Santa Fe, New Mexico 87505
 (505) 827-7131
 OIL CONSERVATION
 DIVISION

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 to approp
 District C

DEC 08 2003

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator HALLIBURTON
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACILI
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter CHAPARRAL
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231g. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 5801 Lovinton 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. <input checked="" type="radio"/> 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 waste is generated by the washing of tools and o equipment. This analytical is from Halliburtons Hobbs facility. Sundance would like approval to accpet this waste into our Parabo facility.

*BASED ON ANALYSIS DATA
 FEB/MAR 2002*

Estimated Volume 300 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: 11-25-03
Waste Management Facility Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)
 APPROVED BY: *J. Johnson* TITLE: ENVIR ENGR DATE: 12.2.03
 APPROVED BY: *Mary G. Kelly* TITLE: Environmental Geologist DATE: 12/15/03

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Wash Rack Grit

ESTIMATED VOLUME: 300 BBL.

GENERATING PROCESS: Wash Rack Sumps

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Chaparral

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

NAME: HARVEY PRICE
PRINTED

ADDRESS: 5801 Lovington Hwy Hobbs, NM 88240

DATE: 11/25/2003



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: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-1
 Sample ID: LOGGIN GRIT TRAP

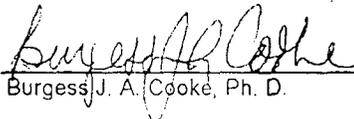
Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6538-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.018	36	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.030	60	0.050
o-Cresol	200	<0.050	<0.005	0.041	82	0.050
m, p-Cresol	200	<0.050	<0.005	0.038	76	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.025	50	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.050	100	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.044	88	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.050	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	39
Phenol-d5	25
Nitrobenzene-d5	77
2-Fluorobiphenyl	60
2,4,6-Tribromophenol	93
Terphenyl-d14	87

METHODS: EPA SW-846 1311, 8270, 3510


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-1
 Sample ID: LOGGIN GRIT TRAP

Analysis Date: 02/25/02
 Sampling Date: 02/22/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6538-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.112	112	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.085	85	0.100
Chloroform	6.0	<0.005	<0.005	0.099	99	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.018	0.018	0.103	103	0.100

% RECOVERY	
Dibromofluoromethane	103
Toluene-d8	99
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


 Burgess J. A. Cooke, Ph. D.

2/27/02

 Date

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

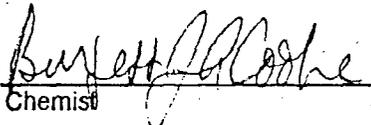
ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: STEVE BAILEY
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/02
Reporting Date: 03/01/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSES
Project Location: HOBBS YARD

Analysis Date: 02/28/02
Sampling Date: 02/22/02
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/L)
H6538-1	LOGGIN GRIT TRAP	1490
Quality Control		9.67
True Value QC		10.0
% Recovery		96.7
Relative Percent Difference		0.8

METHOD: EPA 418.1


Chemist

3/1/02
Date

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H6538T1.XLS



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

PHONE (505) 393-2326 • 10th E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-2
 Sample ID: COMPOSITE OF E. & W. WASHBAY SUMPS

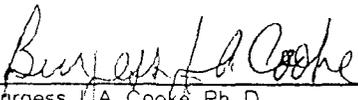
Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.112	112	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.085	85	0.100
Chloroform	6.0	<0.005	<0.005	0.099	99	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.006	0.040	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	106
Toluene-d8	113
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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 ATTN: STEVE BAILEY
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 HOBBS, NM 88240
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 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
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 Sample ID: COMPOSITE OF E. & W. WASHBAY SUMPS

Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.018	36	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.030	60	0.050
o-Cresol	200	<0.020	<0.005	0.041	82	0.050
m, p-Cresol	200	<0.020	<0.005	0.038	76	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.025	50	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.050	100	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.044	88	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	49
Phenol-d5	37
Nitrobenzene-d5	67
2-Fluorobiphenyl	67
2,4,6-Tribromophenol	67
Terphenyl-d14	66

METHODS: EPA SW-846 1311, 8270, 3510


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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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

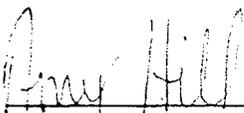
ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: STEVE BAILEY
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/02
Reporting Date: 03/01/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: HOBBS, NM

Sampling Date: 02/22/02
Sample Type: #1 WASTEWATER #2 SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/27/02	03/01/02	03/01/02	03/01/02	03/01/02	03/01/02	03/01/02	02/28/02
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H6538-1	LOGGING GRIT TRAP	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H6538-2	COMP. EAST & WEST WASHBAY SUMPS	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.150	4.601	21.62	0.976	4.634	4.380	0.00662	0.156
True Value QC		0.150	5.000	25.00	1.000	5.000	5.000	0.00800	0.150
% Recovery		100	92.0	86.5	97.6	92.7	87.6	110	104
Relative Standard Deviation		0.7	0.2	3.3	0.1	0.6	0.1	10.3	1.6
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2


Amy Hill, Chemist

3-1-02
Date

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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240

Receiving Date: 02/22/02
 Reporting Date: 03/01/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSIS
 Project Location: HOBBS, NM

FAX TO:

Sampling Date: 02/22/02
 Sample Type: #1 WASTEWATER
 #2 SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH/BC

REACTIVITY

LAB NUMBE SAMPLE ID	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:	02/27/02	02/27/02	02/27/02	02/28/02
H6538-1 LOGGING GRIT TRAP	Not reactive	Not reactive	7.47	>140
H6538-2 COMP. EAST & WEST WASHBAY SUMPS	Not reactive	Not reactive	10.4	Nonflammable
Quality Control	NR	NR	7.08	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	101	NR
Relative Percent Difference	NR	NR	0.1	NR

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

Amy Hill
 Chemist

3-1-02
 Date

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H6538r

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

Originated &
 Submit Or
 Plus 1
 to appro
 District (

RECEIVED
 NOV 03 2003
 OIL CONSERVATION
 DIVISION

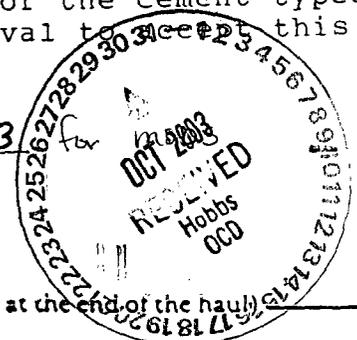
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Halliburton
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	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. <u>Circle One:</u>	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.	
<input checked="" type="radio"/> 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 disposal. 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.

PLEASE reference last approval dated 5-31-03 for



Estimated Volume 400 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: 10-23-03
Waste Management Facility Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Mgr DATE: 10/30/03

APPROVED BY: [Signature] TITLE: Environmental Technologist DATE: 10/3/03

110303-1

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Cement

ESTIMATED VOLUME: 20,000 sacks

GENERATING PROCESS: Unused cement

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Halliburton

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 of 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: Harvey Price
PRINTED

ADDRESS: 5801 Lovington Hwy

DATE: 10/21/2003

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

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

RECEIVED
SEP 15 2003
OIL CONSERVATION
DIVISION

Submit to
Plus
to app
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator HALLIBURTON
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACIL
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) 5801 Lovinton 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 PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous 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 waste is generated by the washing of tools and oil equipment. This analytical is from Halliburtons Hobbs facility. Sundance would like approval to accpet this waste into our Parabo facility.

Estimated Volume 300 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____

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

Email: SSidonna@aol.com

(This space for State Use)
APPROVED BY: *John Johnson* TITLE: ENVIRO ENGR DATE: 9/10/03
APPROVED BY: *Martyn J. [unclear]* TITLE: Environmental Geologist DATE: 9/17/03

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Wash Rack Grit

ESTIMATED VOLUME: 300,000 lbs.

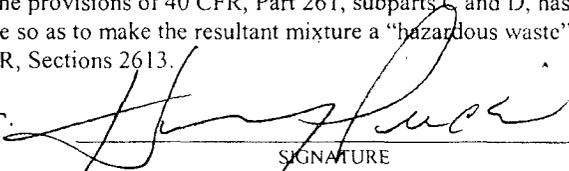
GENERATING PROCESS: Wash Rack Sumps

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Chaparral

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

NAME: HARVEY PRICE

PRINTED

ADDRESS: 5801 Lovington Hwy Hobbs, NM 88240

DATE: 9/3/2003



ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 873-7001 Fax (915) 873-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ___ of ___

Company Name: HEALTHCARE ENERGY SERVICES		BILL TO		PO #:				
Project Manager: Steve Ballant		Company:						
Address: 5801 Lovington Ave		Attn:						
City: HOBBS State: NM Zip: 88240		Address:						
Phone #:		City:						
Project #:		State:		ZIP:				
Project Name: SEEP ANALYSES		Phone #:						
Project Location: HOBBS WARD		Fax #:						
FOR LAB USE ONLY								
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	DATE	TIME	ANALYSIS REQUEST		
		GROUNDWATER	WASTEWATER				SOIL	OIL
H6538-1	LOGAN/ST-HQC			9/25/05	2:15	Complete TOLP		
2	PHASILANU SLIMP			9/25/05	2:15	TPH 418.1		
3	LOHNSHURSLIMP			9/25/05	2:15			
4	COMP OF FIRST & WEST WOOD - WOOD SLIMP							

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Terms and Conditions: Payment will be charged on all accounts more than 30 days past due at the rate of 2% per month from the original date of invoice, and all costs of collection, including attorney's fees.

Relinquished By: *[Signature]* Date: *[Date]* Received By: (Lab Staff) *[Signature]* Date: *[Date]*

Delivered By: (Circle One) *[Signature]* Sample Condition: Good Intact No Yes

Sampler: UPS Bus Other: No Yes

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.



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: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-1
 Sample ID: LOGGIN GRIT TRAP

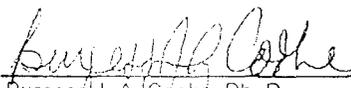
Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

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Pentachlorophenol	100	<0.050	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	39
Phenol-d5	25
Nitrobenzene-d5	77
2-Fluorobiphenyl	60
2,4,6-Tribromophenol	93
Terphenyl-d14	87

METHODS: EPA SW-846 1311, 8270, 3510


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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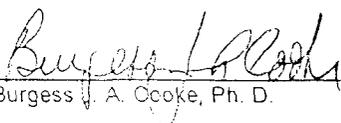
Analysis Date: 02/25/02
 Sampling Date: 02/22/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6538-1	Method Blank	QC	%Recov.	True Value QC
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1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.018	0.018	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	103
Toluene-d8	99
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


 Burgess A. Cooke, Ph. D.

2/27/02
 Date

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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: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-2
 Sample ID: COMPOSITE OF E. & W. WASHBAY SUMPS

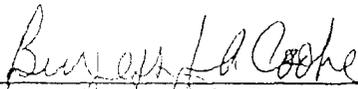
Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.112	112	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.085	85	0.100
Chloroform	6.0	<0.005	<0.005	0.099	99	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.006	0.040	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	106
Toluene-d8	113
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


 Burgess J.A. Cooke, Ph. D.

2/27/02
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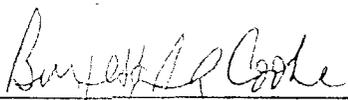
Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.018	36	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.030	60	0.050
o-Cresol	200	<0.020	<0.005	0.041	82	0.050
m, p-Cresol	200	<0.020	<0.005	0.038	76	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.025	50	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.050	100	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.044	88	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	49
Phenol-d5	37
Nitrobenzene-d5	67
2-Fluorobiphenyl	67
2,4,6-Tribromophenol	67
Terphenyl-d14	66

METHODS: EPA SW-846 1311, 8270, 3510


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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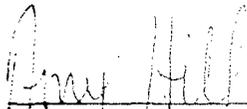
ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: STEVE BAILEY
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/02
Reporting Date: 03/01/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: HOBBS, NM

Sampling Date: 02/22/02
Sample Type: #1 WASTEWATER #2 SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/27/02	03/01/02	03/01/02	03/01/02	03/01/02	03/01/02	03/01/02	02/28/02
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H6538-1	LOGGING GRIT TRAP	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H6538-2	COMP. EAST & WEST WASHBAY SUMPS	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.150	4.601	21.62	0.976	4.634	4.380	0.00662	0.156
True Value QC		0.150	5.000	25.00	1.000	5.000	5.000	0.00600	0.150
% Recovery		100	92.0	86.5	97.6	92.7	87.6	110	104
Relative Standard Deviation		0.7	0.2	3.3	0.1	0.6	0.1	10.3	1.6
METHODS: EPA 1311, 600/4-91/011		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2



Amy Hill, Chemist

3/1/02

Date

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HALLIBURTON ENERGY SERVICES
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HOBBS, NM 88240

Receiving Date: 02/22/02
Reporting Date: 03/01/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: HOBBS, NM

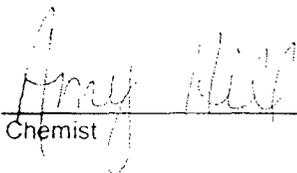
FAX TO:

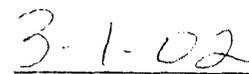
Sampling Date: 02/22/02
Sample Type: #1 WASTEWATER
#2 SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

REACTIVITY

LAB NUMBER	SAMPLE ID	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/27/02	02/27/02	02/27/02	02/28/02
H6538-1	LOGGING GRIT TRAP	Not reactive	Not reactive	7.47	>140
H6538-2	COMP. EAST & WEST WASHBAY SUMPS	Not reactive	Not reactive	10.4	Nonflammable
Quality Control		NR	NR	7.08	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	101	NR
Relative Percent Difference		NR	NR	0.1	NR

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


Chemist


Date

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H6538r

District II - (505) 748-1283
 811 S. First
 Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Pecos 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

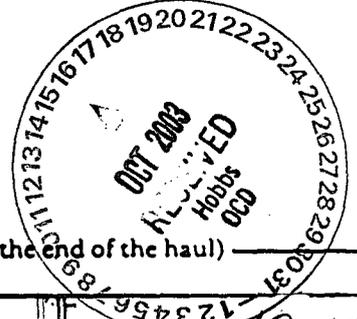
Originated
 Submit O
 Plus I
 to appro
 District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator HALLIBURTON
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACIL
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter CHAPARRAL
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231g. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 5801 Lovinton 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 waste is generated by the washing of tools and oil equipment. This analytical is from Halliburtons Hobbs facility. Sundance would like approval to accpet this waste into our Parabo facility.



Estimated Volume 300 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: 10-15-03
Waste Management Facility/Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)
 APPROVED BY: [Signature] TITLE: Enviro ENGR DATE: 10-16-03
 APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 10/21/03

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Wash Rack Grit

ESTIMATED VOLUME: 300,000 lbs.

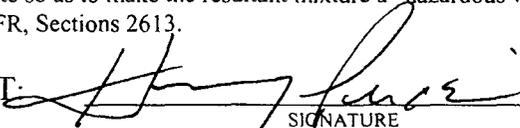
GENERATING PROCESS: Wash Rack Sumps

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Chaparral

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 of 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: Harvey Price
PRINTED

ADDRESS: 5801 Lovington Hwy Hobbs, NM 88240

DATE: 10/13/2003



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

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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-1
 Sample ID: LOGGIN GRIT TRAP

Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6538-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.018	36	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.030	60	0.050
o-Cresol	200	<0.050	<0.005	0.041	82	0.050
m, p-Cresol	200	<0.050	<0.005	0.038	76	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.025	50	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.050	100	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.044	88	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.050	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	39
Phenol-d5	25
Nitrobenzene-d5	77
2-Fluorobiphenyl	60
2,4,6-Tribromophenol	93
Terphenyl-d14	87

METHODS: EPA SW-846 1311, 8270, 3510


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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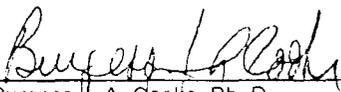
Analysis Date: 02/25/02
 Sampling Date: 02/22/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6538-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.112	112	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.085	85	0.100
Chloroform	6.0	<0.005	<0.005	0.099	99	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.018	0.018	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	103
Toluene-d8	99
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


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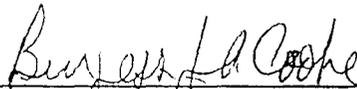
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Vinyl Chloride	0.20	<0.005	<0.005	0.112	112	0.100
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Methyl Ethyl Ketone	200	<0.050	<0.050	0.085	85	0.100
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1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.006	0.040	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	106
Toluene-d8	113
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph. D.

2/27/02
Date

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Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.018	36	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.030	60	0.050
o-Cresol	200	<0.020	<0.005	0.041	82	0.050
m, p-Cresol	200	<0.020	<0.005	0.038	76	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.025	50	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.050	100	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.044	88	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	49
Phenol-d5	37
Nitrobenzene-d5	67
2-Fluorobiphenyl	67
2,4,6-Tribromophenol	67
Terphenyl-d14	66

METHODS: EPA SW-846 1311, 8270, 3510


Burgess J. A. Cooke, Ph. D.

2/27/02
Date

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**ARDINAL
LABORATORIES**

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

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

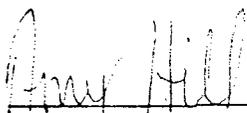
ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: STEVE BAILEY
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

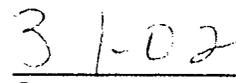
Receiving Date: 02/22/02
Reporting Date: 03/01/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: HOBBS, NM

Sampling Date: 02/22/02
Sample Type: #1 WASTEWATER #2 SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/27/02	03/01/02	03/01/02	03/01/02	03/01/02	03/01/02	03/01/02	02/28/02
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H6538-1	LOGGING GRIT TRAP	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H6538-2	COMP. EAST & WEST WASHBAY SUMPS	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.150	4.601	21.62	0.976	4.634	4.380	0.00662	0.156
True Value QC		0.150	5.000	25.00	1.000	5.000	5.000	0.00600	0.150
% Recovery		100	92.0	86.5	97.6	92.7	87.6	110	104
Relative Standard Deviation		0.7	0.2	3.3	0.1	0.6	0.1	10.3	1.6
METHODS: EPA 1311, 600/4-91/011		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2


Amy Hill, Chemist


Date

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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240

Receiving Date: 02/22/02
 Reporting Date: 03/01/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSIS
 Project Location: HOBBS, NM

FAX TO:

Sampling Date: 02/22/02
 Sample Type: #1 WASTEWATER
 #2 SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH/BC

LAB NUMBE	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/27/02	02/27/02	02/27/02	02/28/02
H6538-1	LOGGING GRIT TRAP	Not reactive	Not reactive	7.47	>140
H6538-2	COMP. EAST & WEST WASHBAY SUMPS	Not reactive	Not reactive	10.4	Nonflammable
Quality Control		NR	NR	7.08	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	101	NR
Relative Percent Difference		NR	NR	0.1	NR

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

Amy Hill
 Chemist

3-1-02
 Date

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H6538r

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

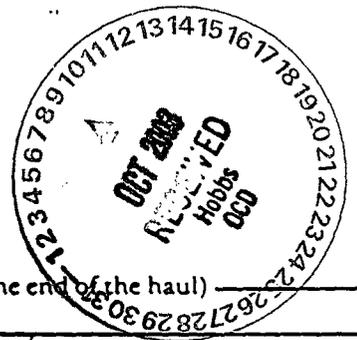
OCT 14 2003
 OIL CONSERVATION
 DIVISION
 Submitted
 Plus 1
 to approval
 District (

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Baker Atlas
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	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 882318, 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 results are from Baker Atlas Hobbs facility. This waste is generated by the washing of oilfield equipment and tools. 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 500 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: 10-8-03
Waste Management Facility Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO: 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Engr DATE: 10-9-03
 APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 10-14-03

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: Baker Atlas Hobbs NM
SOURCE: Wash rack sump Holding tank
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 Baker Atlas
concur with the status of the waste from the subject site.

Name Jerry L. Antone
Title/Agency Engineer In Charge
Address 1718 S Dal Paso
Hobbs NM 88240
Signature [Signature]
Date 10-5-2003



PHONE (815) 675-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (806) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 BAKER ATLAS
 ATTN: JERRY ANTEE
 P.O. BOX 1868
 HOBBS, NM 88241
 FAX TO: (505) 393-7306

Receiving Date: 04/25/03
 Reporting Date: 05/02/03
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSIS
 Project Location: HOBBS, NM

Sampling Date: 04/25/03
 Sample Type: 50:50 WASTEWATER:OIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		04/30/03	05/02/03	03/02/03	05/02/03	05/02/03	05/02/03	05/02/03	05/02/03
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H7617-1	SUMP	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.049	4.887	24.49	0.926	4.783	0.851	0.0104	0.055
True Value QC		0.050	5.000	25.00	1.000	5.000	1.000	0.0100	0.050
% Recovery		98.0	97.7	98.0	92.6	95.7	85.1	104	110
Relative Standard Deviation		5.7	2.3	2.0	0.7	4.3	1.5	4.0	1.7
METHODS: EPA 1311, 600/4-91		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Amy Hill
 Chemist

5/2/03
 Date

H7617

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

ANALYTICAL RESULTS FOR
 BAKER ATLAS
 ATTN: JERRY ANTEE
 P.O. BOX 1858
 HOBBS, NM 88241
 FAX TO: (505) 393-7308

Receiving Date: 04/25/03
 Reporting Date: 05/02/03
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSIS
 Project Location: HOBBS, NM
 Lab Number: H7817-1
 Sample ID: SUMP

Analysis Date: 05/01/03
 Sampling Date: 04/25/03
 Sample Type: 50:50 WASTEWATER: OIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H7817-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.011	22	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.042	84	0.050
o-Cresol	200	<0.020	<0.005	0.046	82	0.050
m, p-Cresol	200	<0.020	<0.005	0.032	84	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.016	32	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.038	76	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.026	50	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.038	78	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.041	82	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.040	80	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.039	78	0.050
Pentachlorophenol	100	<0.020	<0.005	0.037	74	0.050

% RECOVERY

Fluorophenol	37
Phenol-d5	29
Nitrobenzene-d5	61
2-Fluorobiphenyl	59
2,4,6-Tribromophenol	82
Terphenyl-d14	83

METHODS: EPA SW-846 1311, 8270, 3510
 MI - Matrix Interference

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

5/2/03
 Date

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

ANALYTICAL RESULTS FOR
 BAKER ATLAS
 ATTN: JERRY ANTEE
 P.O. BOX 1868
 HOBBS, NM 88241
 FAX TO: (505) 393-7308

Receiving Date: 04/25/03
 Reporting Date: 04/30/03
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSIS
 Project Location: HOBBS, NM
 Lab Number: H7617-1
 Sample ID: SUMP

Analysis Date: 04/28/03
 Sampling Date: 04/25/03
 Sample Type: 50:50 WASTEWATER OIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H7617-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.810	810	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.097	97	0.100
Methyl Ethyl Ketone	200	0.098	<0.005	0.118	118	0.100
Chloroform	6.0	<0.005	<0.005	0.088	88	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.107	107	0.100
Benzene	0.5	<0.005	<0.005	0.099	99	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.100	100	0.100
Trichloroethylene	0.5	0.088	<0.005	0.097	97	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.088	88	0.100
Chlorobenzene	100	<0.005	<0.005	0.088	88	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.088	88	0.100

% RECOVERY

Dibromofluoromethane	89
Toluene-d8	88
Bromofluorobenzene	90

METHODS: EPA SW 846-8280, 1311

Burgess J.A. Cooks, Ph. D.

5/3/03
 Date

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RECEIVED

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

State of New Mexico
Energy Minerals and Natural Resources

SEP 11 2003

Form C-138
Revised March 17, 1999

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

OIL CONSERVATION
DIVISION

Submit Original
Plus 1 Copy
to Appropriate
District Office

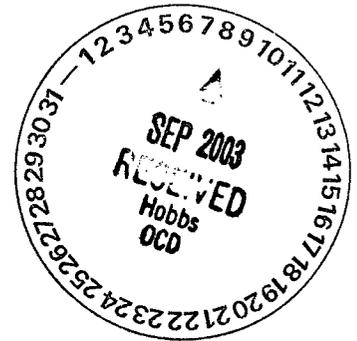
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	4. Generator ConocoPhillips
2. Management Facility Destination Sundance Services Inc.	5. Originating Site Hobbs East Junction
3. Address of Facility Operator P.O. Box 1737 Eunice NM 88231	6. Transporter Unknown
7. Location of Material (Street Address or ULSTR) 95 8 38E	8. State 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. 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 attached information is for waste generated at ConocoPhillips Hobbs East Junction location. This waste was generated by the removal of crude oil from ground water contamination. This material will be centrifuged and reclaimed at our Sundance Facility. A Stage II Abatement plan has been approved from Mr. Bill Olsen and is on file with the NMOCD. Sundance would like approval to accept this material and reclaim any material possible.

ConocoPhillips must submit a C-117 For transportation of miscellaneous Hydrocarbons. mjh



Estimated Volume 120bbls. cy Known Volume (to be entered by the operator at the end of the haul) cy

SIGNATURE Donna Roach TITLE: President DATE: 9-2-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Donna Roach TELEPHONE NO. 505-394-2511

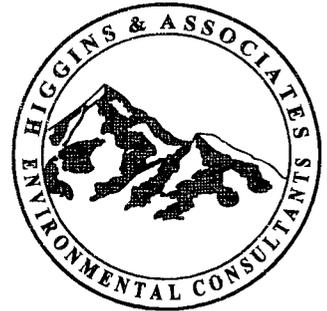
(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Eng DATE: 9-8-03
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 9-11-03

1-301160

August 18, 2003

Ms. Donna Roach
Client Services
Sundance Services, Inc.
Eunice, NM 88231



Higgins and Associates, L.L.C.

Re: Recycling of Recovered Crude Oil with Groundwater
ConocoPhillips Pipe Line Hobbs East Remediation Project

Dear Ms. Roach:

From our discussion on August 13, 2003, on behalf of ConocoPhillips, Higgins and Associates, L.L.C. (Higgins) will retain a service company to transport recovered crude oil with groundwater (approximately 120 barrels) to your facility for recycling. Attached is the "certificate of waste status" signed by Ms. Dianne Seefried, ConocoPhillips.

Project activities commenced at the site in January of 2000 following the discovery of a release of crude oil from a gathering line at the Hobbs East junction. Assessment and remediation activities have been conducted at the site to define and address the crude oil impacts with the most recent activities consisting of the installation of a comprehensive soil and groundwater remediation system. The work being performed at the site is under the direction of the State of New Mexico's Oil Conservation Division (OCD), specifically Mr. Bill Olsen (telephone number: 505-476-3440). Higgins submitted a Stage II Abatement Plan to OCD. After approval by OCD, Higgins installed remediation equipment from August through October, 2002. The remediation system installation consisted of a soil vapor extraction (SVE) system, a sparging system, and expanding the existing product recovery system which was installed for initial abatement measures. Free product is recovered and stored at the site in an above ground storage tank. A site map illustrating the location of surface facilities, pipelines, monitoring wells, and remediation wells is attached.

Should you have any questions please contact Chris Higgins at (303) 708-9846 at the Centennial, Colorado office, or Nick Fischer at (505) 985-0030 at the Clovis, New Mexico office.

Sincerely,

Higgins and Associates, L.L.C.

Nick Fischer
Project Engineer

Chris Higgins
Project Manager

CERTIFICATE OF WASTE STATUS

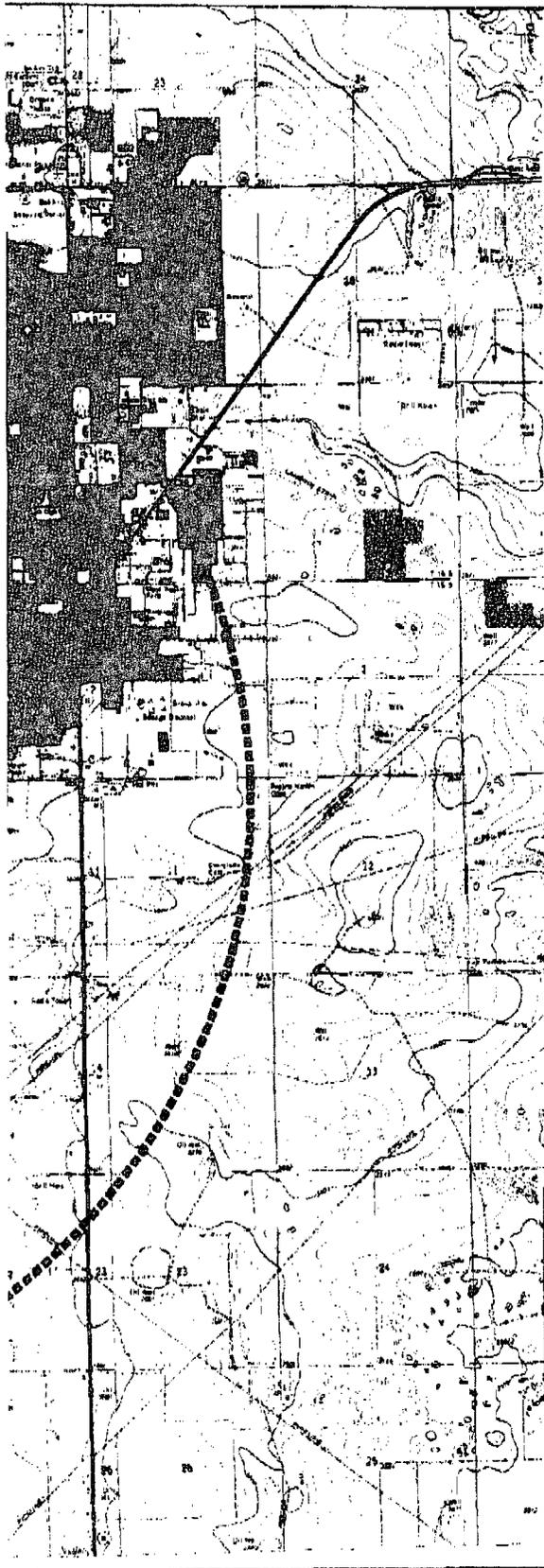
NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: ConocoPhillips Hobbs East Remediation Site
 SOURCE: Recovered Crude Oil & Groundwater from Remedial
 DISPOSAL LOCATION: Sundance Services Inc Activities
Funice, 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 ConocoPhillips
 concur with the status of the waste from the subject site.

Name Dianne Seefried
 Title/Agency Site Manager / ConocoPhillips Risk Mgmt. & Remediation
 Address 600 North Dairy Ashford
Houston, TX 77079
 Signature Dianne Seefried
 Date 8/26/03



LEGEND

● Remediation Plant Site

----- 3.1 Mile Radius



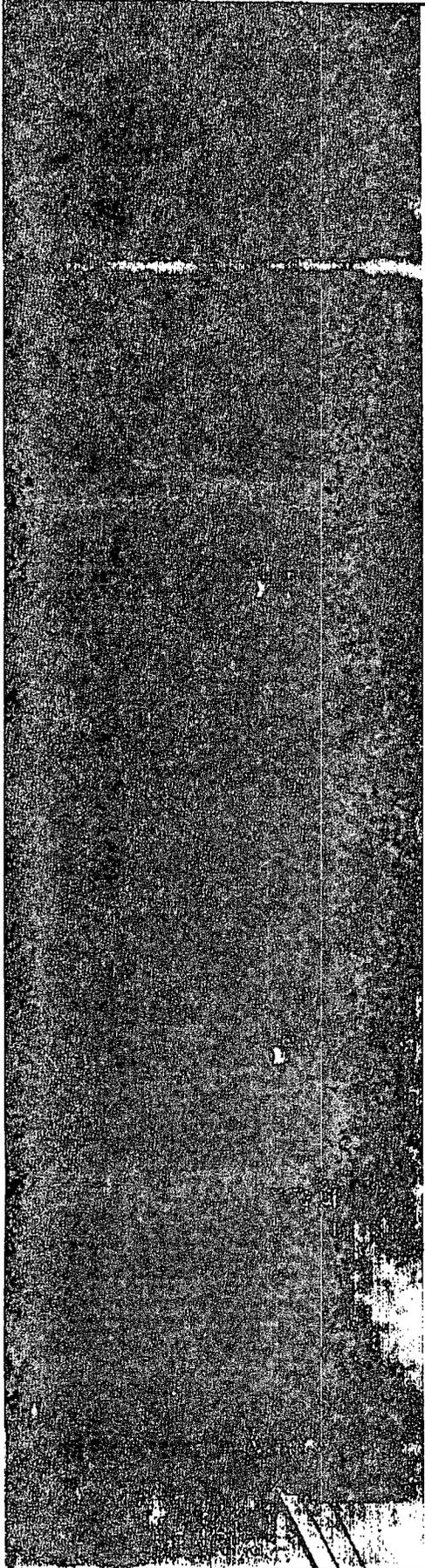
0 4000 8000

Scale (ft)



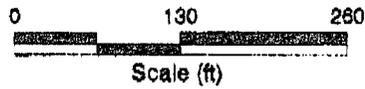
HIGGINS AND ASSOCIATES, L.L.C.

Project No.:	571-17	Date Map Generated:	05/22/03	Date Data Collected:	05/20/03	Figure No.:	1d	
Author:	CH	TOPOGRAPHIC MAP WITH 3.1 MILE RADIUS					East Hobbs Junction New Mexico	
Checked:	NF							
Client:	ConocoPhillips Pipe Line Company							
Detail:	EC	ACA) File: 571-17 Figure 1B.dwg; tab: 001d						

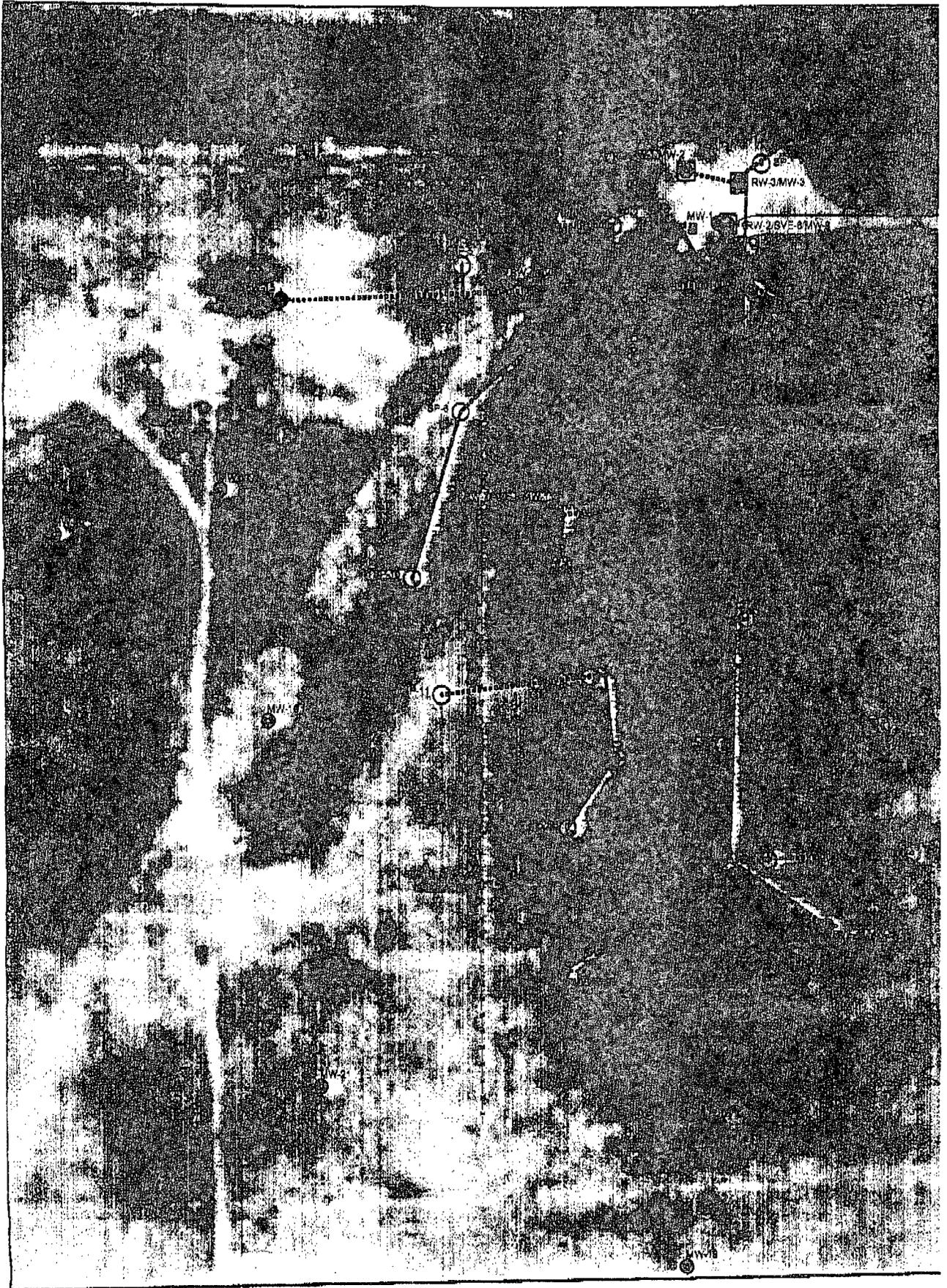


LEGEND

- MW-1  Existing Monitor Well Location and Designation
- SVE-1  Soil Vapor Extraction Location and Designation
- SP-2  Sparge Well Location and Designation
- RW-1  Product Recovery Well Location and Designation
- Alignment of Conveyance Piping Corridor



 HIGGINS AND ASSOCIATES, L.L.C.			
Project No.:	Date Map Generated:	Date Data Collected:	Figure No.
571-17	05/22/03	05/20/03	1e
Author:	Title:		
CH	AERIAL SITE MAP - 1998		
Checked:			
NF			
Drawn:	Client:	Location:	
EC	ConocoPhillips Pipe Line Company	East Hobbs Junction New Mexico	
	ACA3 File:		
	571-17 Figure 1B.dwg, tab: 001c		



LOW ATTACHMENTS
THAT ARE SO CLEAR.

HOODS, 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

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MAY 23 2003
Environmental Bureau
Oil Conservation Division

Submit Orig
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to appropri
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Halliburton
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	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 88231	7. 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 disposal. 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.

PLEASE reference last approval dated 3-6-03 for MSDS

Estimated Volume 400 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: 5-15-03
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)
APPROVED BY: [Signature] TITLE: Enviro ENGR DATE: 5/19/03
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 5/23/03

1-5052250

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Cement

ESTIMATED VOLUME: 20,000 SACKS

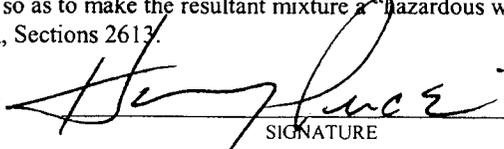
GENERATING PROCESS: Unused cement

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Halliburton

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

NAME: HARVEY PRICE
PRINTED

ADDRESS: 5801 Lovington Hwy

DATE: 05/14/2003

RECEIVED

District I
1525 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

JUL 21 2003

OIL CONSERVATION
DIVISION

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	4. Generator Electric Submersible Pump
2. Management Facility Destination Sundance Services Inc.	5. Originating Site Hobbs Pump Yard
3. Address of Facility Operator P.O. Box 1737 Eunice NM 88231	6. Transporter Unknown
7. Location of Material (Street Address or ULSTR) 8426 N. Dal Paso Hobbs New Mexico 88241	8. State 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. 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 oilfield 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 status and chain of custody. Sundance would like approval to accept this material into our Parabo Disposal Facility.

Estimated Volume 240 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Donna Roach TITLE: President DATE: 6-25-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Donna Roach TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: ENVIRO ENGR DATE: 7-1-03

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 7-21-03

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: ESP 8426 N DAL PASO HOBBS NM 88240

SOURCE: GILFIELD RINSATE

DISPOSAL LOCATION: SUNDANCE SERVICES, PARABO FACILITY,
P.O. BOX 1737 EUNICE NM 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 Rodrigo Burrola

Title/Agency ESP

Address 8426 N DAL PASO
HOBBS NM 88240

Signature Rodrigo Burrola

Date 6-25-03



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

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

ANALYTICAL RESULTS FOR

ESP
 ATTN: RANDY HINDS
 8426 N. DAL PASO
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 08/29/02
 Reporting Date: 08/30/02
 Project Number: NOT GIVEN
 Project Name: PUMP TESTING WATER
 Project Location: NOT GIVEN
 Lab Number: H6992-1
 Sample ID: -

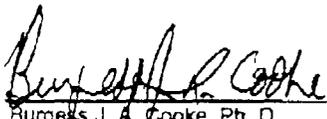
Analysis Date: 08/29/02
 Sampling Date: 08/28/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6992-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.109	109	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.096	95	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.087	87	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.090	90	0.100
Benzene	0.5	<0.005	<0.005	0.114	114	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.109	109	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.098	98	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.091	91	0.100

% RECOVERY

Dibromofluoromethane	95
Toluene-d8	118
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311


 Burgess J. A. Cooke, Ph. D.

8/30/02
 Date

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



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

ANALYTICAL RESULTS FOR
ESP

ATTN: RANDY HINDS
8426 N. DAL PASO
HOBBS, NM 88240
FAX TO:

Receiving Date: 08/28/02
Reporting Date: 08/30/02
Project Number: NOT GIVEN
Project Name: PUMP TESTING WATER
Project Location: NOT GIVEN
Lab Number: H6992-1
Sample ID: -

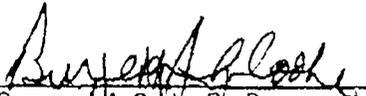
Analysis Date: 08/29/02
Sampling Date: 08/28/02
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6992-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.041	82	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.033	66	0.050
o-Cresol	200	<0.050	<0.005	0.044	88	0.050
m, p-Cresol	200	<0.050	<0.005	0.041	82	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.029	58	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.044	88	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.033	66	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.053	106	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.052	104	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.053	106	0.050
Pentachlorophenol	100	<0.050	<0.005	0.046	92	0.050

% RECOVERY

Fluorophenol	56
Phenol-d5	42
Nitrobenzene-d5	93
2-Fluorobiphenyl	89
2,4,6-Tribromophenol	112
Terphenyl-d14	74

METHODS: EPA SW-848 1311, 8270, 3510


Burgess J.A. Coble, Ph. D.

8/30/02
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.

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

Form
 Original

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 Environmental Bureau
 Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator HALLIBURTON
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACI
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter UNKNOWN
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231g. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 5801 LOVINGTON, hyHOBBS, N.M. 88240	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from Generator; one certificate per job.	
<input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The attached MSDS is for sand mixed at Halliburton's Hobbs facility. This material becomes a waste when there is material left over from sand frac jobs. Sundance would like approval to accept this material into our Parabo Disposal Facility.

Note: This is an ongoing waste stream.

PLEASE reference last approval dated 2-24-03 for MSDS ^{included}

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

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 3-11-03
Waste Management Facility Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: ENVIRO ENGR DATE: 3/14/03
 APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 3/18/03

031803-2

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: HES

ADDRESS: 5801 Lovington Hwy Hobbs, NM

GENERATING SITE: HES

COUNTY Lea STATE NM

TYPE OF WASTE: 20/40 SUPER PROP SAND

ESTIMATED VOLUME: 50,000 lbs.

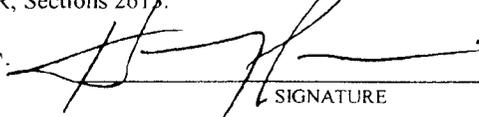
GENERATING PROCESS: Unused on job

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Hes

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 of 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.

AGENT:  _____

SIGNATURE

NAME: HARVEY PRICE

PRINTED

ADDRESS: 5801 Lovington Hwy., Hobbs, NM 88240

DATE: 3/6/2003

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

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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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Halliburton
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	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. <input checked="" type="radio"/> 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 disposal. 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.

PLEASE reference last approval dated 12-31-02 for MSDS *on file mm*

Estimated Volume 400 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: 3-11-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

031803-1

(This space for State Use)

APPROVED BY: [Signature] TITLE: ENVRO ENGR DATE: 3/14/03

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 3/10/03

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Cement

ESTIMATED VOLUME: 1,000, sacks

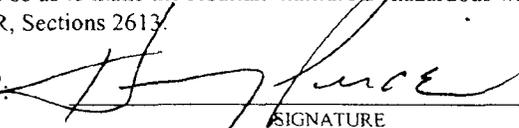
GENERATING PROCESS: Unused cement

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Halliburton

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 of 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: Harvey Price

PRINTED

ADDRESS: 5801 Lovington Hwy

DATE: 3/6/2003

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

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Submit O
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 District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator HALLIBURTON
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACIL
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) 5801 Lovinton 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.	
<input checked="" type="radio"/> 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 waste is generated by the washing of tools and oil equipment. This analytical is from Halliburtons Hobbs facility. Sundance would like approval to accept this waste into our Parabo facility.

Estimated Volume 300 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE: *Donna L. Roach* TITLE: OFFICE MGR DATE: 2-24-03
Waste Management Facility Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: *D. Johnson* TITLE: ENVIRO ENGR DATE: 3/6/03
 APPROVED BY: *Montana* TITLE: Environmental Geologist DATE: 3/10/03

2
 031003

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION**

COMPANY/GENERATOR: Halliburton

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Wash Rack Grit

ESTIMATED VOLUME: 300,000 lbs.

GENERATING PROCESS: Wash Rack Sumps

REMARKS:

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Chaparral

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 of 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: Harvey Price

SIGNATURE

NAME:

Harvey Price

PRINTED

ADDRESS: 5801 Lovington Hwy Hobbs, NM 88240

DATE:

2/17/20036



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: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-1
 Sample ID: LOGGIN GRIT TRAP

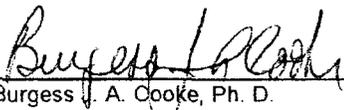
Analysis Date: 02/25/02
 Sampling Date: 02/22/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6538-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.112	112	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.085	85	0.100
Chloroform	6.0	<0.005	<0.005	0.099	99	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.018	0.018	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	103
Toluene-d8	99
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


 Burgess J. A. Cooke, Ph. D.

2/27/02
 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.



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

ANALYSIS REQUEST

Company Name: HALBURTON ENERGY SERVICES PO #: 311110

Project Manager: Steve Baiter Company: _____

Address: 5801 Louington Hwy Attn: _____

City: Hobbs State: NM Zip: _____

Phone #: _____ Address: _____

Fax #: _____ City: _____

Project #: _____ Project Owner: _____ State: _____ Zip: _____

Project Name: SEEP ANALYSES Phone #: _____

Project Location: HOBBS YARD Fax #: _____

FOR LAB USE ONLY

LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:			
H638-1	LOGG, OIL, GRT, HAO										9/20/02	2:25	Complete TCLP
-2	WASHRAU SUMP										9/20/02	2:25	TPH 418.1
-3	WASHRAU SUMP										9/20/02	2:15	
#3	COMP OF EPBI & WEST WASH - BOY SUMP												

LAB NOTE: Liberty and Damages, Cardinal's liability and service's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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.

Sampler Relinquished: _____ Date: _____ Received By: _____

Time: _____

Relinquished By: _____ Date: _____ Received By: (Lab Staff) _____

Time: _____

Delivered By: (Circle One) _____ Sample Condition: _____

Sampler: UPS - Bus - Other: _____ Cool Intact: Yes No

Checked By: _____ (Initials)

REMARKS: _____

Phone Result: Yes No Additional Fax #: _____

Fax Result: Yes No

* 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: STEVE BAILEY
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/02
Reporting Date: 03/01/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSES
Project Location: HOBBS YARD

Analysis Date: 02/28/02
Sampling Date: 02/22/02
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

Table with 3 columns: LAB NUMBER, SAMPLE ID, TPH (mg/Kg). Rows include H6538-2 COMPOSITE OF E. & W. WASHBAY SUMPS, Quality Control, True Value QC, % Recovery, and Relative Percent Difference.

METHOD: EPA 418.1

Signature of Benjamin G. Cooke, Chemist

3/1/02
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.



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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-1
 Sample ID: LOGGIN GRIT TRAP

Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: WASTEWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6538-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.018	36	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.030	60	0.050
o-Cresol	200	<0.050	<0.005	0.041	82	0.050
m, p-Cresol	200	<0.050	<0.005	0.038	76	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.025	50	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.050	100	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.044	88	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.050	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	39
Phenol-d5	25
Nitrobenzene-d5	77
2-Fluorobiphenyl	60
2,4,6-Tribromophenol	93
Terphenyl-d14	87

METHODS: EPA SW-846 1311, 8270, 3510


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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



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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-2
 Sample ID: COMPOSITE OF E. & W. WASHBAY SUMPS

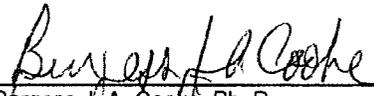
Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.112	112	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.085	85	0.100
Chloroform	6.0	<0.005	<0.005	0.099	99	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.006	0.040	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	106
Toluene-d8	113
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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



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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-2
 Sample ID: COMPOSITE OF E. & W. WASHBAY SUMPS

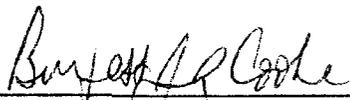
Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.018	36	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.030	60	0.050
o-Cresol	200	<0.020	<0.005	0.041	82	0.050
m, p-Cresol	200	<0.020	<0.005	0.038	76	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.025	50	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.050	100	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.044	88	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	49
Phenol-d5	37
Nitrobenzene-d5	67
2-Fluorobiphenyl	67
2,4,6-Tribromophenol	67
Terphenyl-d14	66

METHODS: EPA SW-846 1311, 8270, 3510


 Burgess J. A. Cooke, Ph. D.

2/27/02

 Date

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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240

Receiving Date: 02/22/02
 Reporting Date: 03/01/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSIS
 Project Location: HOBBS, NM

FAX TO:

Sampling Date: 02/22/02
 Sample Type: #1 WASTEWATER
 #2 SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH/BC

LAB NUMBE SAMPLE ID	REACTIVITY			
	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:	02/27/02	02/27/02	02/27/02	02/28/02
H6538-1 LOGGING GRIT TRAF	Not reactive	Not reactive	7.47	>140
H6538-2 COMP. EAST & WEST WASHBAY SUMPS	Not reactive	Not reactive	10.4	Nonflammable
Quality Control	NR	NR	7.08	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	101	NR
Relative Percent Difference	NR	NR	0.1	NR

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

Amy Hill
 Chemist

3-1-02
 Date

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H6538r



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

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

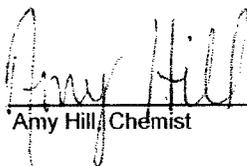
ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 03/01/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSIS
 Project Location: HOBBS, NM

Sampling Date: 02/22/02
 Sample Type: #1 WASTEWATER #2 SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/27/02	03/01/02	03/01/02	03/01/02	03/01/02	03/01/02	03/01/02	02/28/02
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H6538-1	LOGGING GRIT TRAP	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H6538-2	COMP. EAST & WEST WASHBAY SUMPS	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.150	4.601	21.62	0.976	4.634	4.380	0.00662	0.156
True Value QC		0.150	5.000	25.00	1.000	5.000	5.000	0.00600	0.150
% Recovery		100	92.0	86.5	97.6	92.7	87.6	110	104
Relative Standard Deviation		0.7	0.2	3.3	0.1	0.6	0.1	10.3	1.6
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2


 Amy Hill, Chemist

3-1-02
 Date

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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

Original
 Submitted
 File
 to
 District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator HALLIBURTON,
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACI
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter UNKNOWN
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231g. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 5801 LOVINGTON, hyHOBBS, N.M. 88240	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from Generator; one certificate per job.	
<input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis. PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The attached MSDS is for sand mixed at Halliburton's Hobbs facility. This material becomes a waste when there is material left over from sand frac jobs. Sundance would like approval to accept this material into our Parabo Disposal Facility.

Note: This is an ongoing waste stream.

See last approval on 3-25-02 for MSDS

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

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 2-24-03
Waste Management Facility Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: Engg - Enviro DATE: 3-6-03
 APPROVED BY: [Signature] TITLE: Environmental Ecologist DATE: 3-10-03

031003-11

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION**

COMPANY/GENERATOR: HES

ADDRESS: 5801 Lovington Hwy Hobbs, NM

GENERATING SITE: HES

COUNTY Lea STATE NM

TYPE OF WASTE: 160 SACKS OF 16/30 SB EXCEL & 55 SACKS OF
20/40/INTERPROP (SAND)

ESTIMATED VOLUME: APPROXIMATELY 21,500 LBS TOTAL

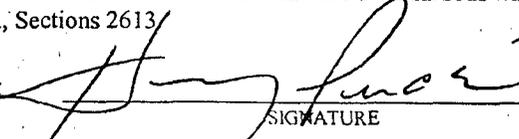
GENERATING PROCESS: Unused on job

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Hes

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 of 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

NAME: HARVEY PRICE

PRINTED

ADDRESS: 5801 Lovington Hwy., Hobbs, NM 88240

DATE: 2/5/2003

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

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

RECEIVED
FEB 03 2003
Environmental Bureau
Oil Conservation Division

Form C-138
Revised March 17, 1999
Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	4. Generator Electric Submersible Pump
2. Management Facility Destination Sundance Services Inc.	5. Originating Site Hobbs Pump Yard
3. Address of Facility Operator P.O. Box 1737 Eunice NM 88231	6. Transporter Unknown
7. Location of Material (Street Address or ULSTR) 8426 N. Dal Paso Hobbs New Mexico 88241	8. State 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. 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 oilfield 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 status and chain of custody. Sundance would like approval to accept this material into our Parabo Disposal Facility.

Estimated Volume 240 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE *Donna Roach* TITLE: President DATE: 1-9-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Donna Roach TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: *DK Johnson* TITLE: ENVIRO ETGR DATE: 1-27-03
 APPROVED BY: *Marty J...* TITLE: Environmental Geologist DATE: 2-3-03

020303-2

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: ESP 8426 n DAL PASO Hobbs nm 88240

SOURCE: OILFIELD RINSE

DISPOSAL LOCATION: SUNDANCE SERVICES, PARABO FACILITY,
P.O. Box 1737 Eunice n.m. 88831

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 WOODGLOW ESP
concur with the status of the waste from the subject site.

Name Randy Hinds
Title/Agency ESP
Address 8426 n DAL PASO
Hobbs new mexico
Signature Randy Hinds
Date 1-9-03



**ARDINAL
LABORATORIES**

PHONE (815) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

**ANALYTICAL RESULTS FOR
ESP**

ATTN: RANDY HINDS
8426 N. DAL PASO
HOBBS, NM 88240
FAX TO:

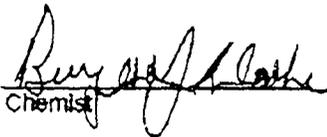
Receiving Date: 08/29/02
Reporting Date: 09/03/02
Project Number: NOT GIVEN
Project Name: PUMP TESTING WATER
Project Location: NOT GIVEN

Sampling Date: 08/29/02
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

REACTIVITY

LAB NO. SAMPLE ID	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:	08/30/02	08/30/02	08/29/02	08/30/02
H6982-1 -	Not reactive	Not reactive	6.80	>140
Quality Control	NR	NR	7.04	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	101	NR
Relative Percent Difference	NR	NR	0.1	NR

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


Chemist


Date

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



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

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

ANALYTICAL RESULTS FOR
ESP

ATTN: RANDY HINDS
8426 N. DAL PASO
HOBBS, NM 88240
FAX TO:

Receiving Date: 08/29/02
Reporting Date: 08/30/02
Project Number: NOT GIVEN
Project Name: PUMP TESTING WATER
Project Location: NOT GIVEN
Lab Number: H6992-1
Sample ID: -

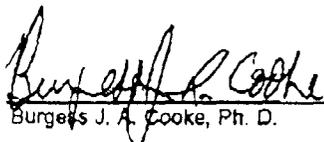
Analysis Date: 08/29/02
Sampling Date: 08/28/02
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6992-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.109	109	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.096	95	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	8.0	<0.005	<0.005	0.087	87	0.100
1,2-Dichloroethane	0.5	<0.006	<0.005	0.090	90	0.100
Benzene	0.5	<0.005	<0.005	0.114	114	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.109	109	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.098	98	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.091	91	0.100

% RECOVERY

Dibromofluoromethane	85
Toluene-d8	118
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph. D.

8/30/02
Date

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



PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR
ESP

ATTN: RANDY HINDS
8426 N. DAL PASO
HOBBS, NM 88240
FAX TO:

Receiving Date: 08/29/02
Reporting Date: 08/30/02
Project Number: NOT GIVEN
Project Name: PUMP TESTING WATER
Project Location: NOT GIVEN
Lab Number: H6992-1
Sample ID: -

Analysis Date: 08/29/02
Sampling Date: 08/28/02
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6992-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.041	82	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.033	66	0.050
o-Cresol	200	<0.050	<0.005	0.044	88	0.050
m, p-Cresol	200	<0.050	<0.005	0.041	82	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.029	58	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.044	88	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.033	66	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.053	106	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.052	104	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.053	106	0.050
Pentachlorophenol	100	<0.050	<0.005	0.046	92	0.050

% RECOVERY

Fluorophenol	56
Phenol-d5	42
Nitrobenzene-d5	93
2-Fluorobiphenyl	88
2,4,6-Tribromophenol	112
Terphenyl-d14	74

METHODS: EPA SW-848 1311, 8270, 3510


Burgess J.A. Cooke, Ph. D.

8/30/02
Date

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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
FFR 0 3 2003
Environmental Bureau
Oil Conservation Division

Original
Submit (Plus) to appropriate District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator HALLIBURTON
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACIL
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) 5801 LOVINGTON, HOBBS, N.M. 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 PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The attached MSDS is for sand mixed at Halliburton's Hobbs facility. This material becomes a waste when there is material left over from sand frac jobs. Sundance would like approval to accept this material into our Parabo Disposal Facility.

Note: This is an ongoing waste stream.
Note: See MSDS on last approval 3-25-02

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

SIGNATURE: Donna L. Roach TITLE: OFFICE MGR DATE: 1-24-03
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)
APPROVED BY: [Signature] TITLE: ENVIRO ENGR DATE: 1/27/03
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 2/3/03

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: HES

ADDRESS: 5801 Lovington Hwy Hobbs, NM

GENERATING SITE: HES

COUNTY Lea STATE NM

TYPE OF WASTE: Resin Coated Sand

ESTIMATED VOLUME: 20,000 lbs.

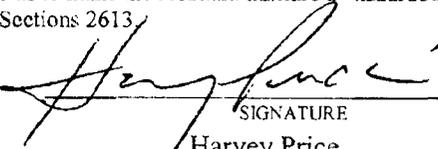
GENERATING PROCESS: Unused on job

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Hes

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 of 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: Harvey Price

PRINTED

ADDRESS: 5801 Lovington Hwy., Hobbs, NM 88240

DATE: 1/24/2003

FOR:

MARTINE
KIELING

Lacey,

Can you please

check to see if we

can get a verbal. They
are checking on a discharge plan
form

Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

Submit (Plus) to appropriate District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Permian Mack
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site Hobbs Facility
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter MacClaskey
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 882318. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 2121 W West County Road 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. <input checked="" type="radio"/> 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 to 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 Permian Mack's Hobbs facility. This waste was generated by the washing of trucks and shop tools into the grit trap. I have included a certificate of waste status and chain of custody. Sundance would like approval to accept this material into our Parabo facility.

Note: Waste stream has not changed since this analytical results generator is in the process of running up to date results

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

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

1-502210

(This space for State Use)
APPROVED BY: Mr. Johnson TITLE: ENVIRON ENGR DATE: _____
APPROVED BY: Martyn Johnson TITLE: Environmental Geologist DATE: 1-22-03

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: Permian Mack Sales
SOURCE: 2121 West County Rd Hobbs NM
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 BRUCKNER TRUCK SALES concur with the status of the waste from the subject site.

Name GARY SCHUB
Title/Agency SERVICE MANAGER
Address 2121 WEST COUNTY RD
HOBBS N.M.
Signature [Signature]
Date 1-20-2003

Post-It® Fax Note		7671	Date	# of pages
To	<u>GARY</u>		From	<u>DONNA</u>
Co./Dept.			Co.	
Phone #	<u>392-8549</u>	Phone #	<u>394-2511</u>	
Fax #		Fax #		



PHONE (816) 972-7901 • 2111 BEECHWOOD • ASHLAND, MO 64003
PHONE (806) 363-8328 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR
PERMIAN MACK SALES OF NM, INC.
ATTN: RANDY
P.O. BOX 1678
HOBBS, NM 88240
FAX TO:**

Receiving Date: 08/07/00
Reporting Date: 08/14/00
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/07/00
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: SO/AM

REACTIVITY

LAB NUMBER SAMPLE ID Sulfide Cyanide CORROSIVITY IGNITABILITY
10-2009 08137 (ppm) (ppm) (pH) (°F)

ANALYSIS DATE		8/12/00	8/12/00	8/13/00	8/13/00
H5180-1	GRIT TRAP	Not reactive	Not reactive	8.89	>140
Quality Control		NR	NR	8.89	NR
True Value GC		NR	NR	7.60	NR
% Recovery		NR	NR	88.9	NR
Relative Percent Difference		NR	NR	0	NR

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

[Signature]
Chemist

[Signature]
Date

PLEASE NOTE: Liability and Damages. Cardholder's liability and Cardholder's exclusive remedy for any claims arising, whether based in contract or tort, shall be limited to the amount paid by Cardholder for analysis. All other claims, including but not limited to consequential or incidental damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Cardholder, its subsidiaries, affiliates or successors arising out of or related to the performance or non-performance of services provided by Cardholder, regardless of whether such claims are based upon any of the above-stated remedies or otherwise, shall be deemed waived by Cardholder.



PHONE (818) 872-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
 PHONE (804) 383-2328 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 PERMIAN MACK SALES OF NM, INC.
 ATTN: RANDY
 P.O. BOX 1678
 HOBBS, NM 88240
 FAX.TD:

Receiving Date: 08/07/00
 Reporting Date: 08/14/00
 Project Owner: NOT GIVEN
 Project Name: NOT GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/07/00
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: CP
 Analyzed By: AM

TCLP METALS

LAB NO.	SAMPLE ID	As	Ba	Cd	Cr	Pb	Hg	Se
		ppm						
ANALYSIS DATE:		08/11/00	08/11/00	08/11/00	08/11/00	08/11/00	08/12/00	08/14/00
EPA LIMITS:		5	5	100	1	5	0.2	1
HS160-1	GRIT TRAP	<1	<1	<1	<0.1	<1	<0.02	<0.1
Quality Control		0.056	4.882	24.63	0.949	5.278	5.182	0.0106
True Value QC		0.060	5.000	25.00	1.000	5.000	5.000	0.200
% Recovery		110	97.6	96.1	94.9	106	104	106
Relative Standard Deviation		2.3	0.8	1.3	0.4	2.4	0.1	5.4
METHODS: EPA 1311, 8004-911		208.2	272.1	208.1	213.1	218.1	238.1	245.1
								270.2

Amy Hill
 Chemist

9-14-00
 Date

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 PHONE (800) 993-3228 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 PERMIAN MACK SALES OF NM, INC.
 ATTN: RANDY
 P.O. BOX 1678
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 09/07/00
 Reporting Date: 09/14/00
 Project Owner: NOT GIVEN
 Project Name: NOT GIVEN
 Project Location: NOT GIVEN
 Sample ID: GRIT TRAP

Analysis Date: 09/13/00
 Sampling Date: 09/07/00
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: GP
 Analyzed By: BC

TCLP SEMI-VOLATILES (ppm)	EPA LIMIT	Sample Result HS100-1	Method Blank	True Value		
				QC % Recov.	QC	
Pyridine	6.00	<0.020	<0.005	0.020	60	0.050
1,4-Dichlorobenzene	7.50	0.028	<0.005	0.030	60	0.050
o-Cresol	200	<0.020	<0.005	0.020	60	0.050
m, p-Cresol	200	0.028	<0.005	0.031	62	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.028	62	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.030	60	0.050
Hexachloro-1,3-butadiene	0.600	<0.020	<0.005	0.031	62	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.043	66	0.050
2,4,6-Tribromophenol	400	<0.020	<0.005	0.044	68	0.050
2,4-Dinitrobenzene	0.130	<0.020	<0.005	0.043	66	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.045	60	0.050
Pentachlorophenol	100	<0.020	<0.005	0.041	62	0.050

% RECOVERY

Fluorophenol	63
Phenol-d9	67
Nitrobenzene-d5	77
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	83
Terphenyl-d14	97

METHODS: EPA SW 845-8270, 1311, 3510

Burgess J. L. Cook, Jr.
 Burgess J. L. Cook, Jr. D.

9/14/00
 Date

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PHONE (918) 673-7001 • 2111 WEAVERWOOD • ARKLA, TX 75013

PHONE (505) 292-2326 • 161 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
PERMIAN MACK SALES OF NM, INC.
ATTN: RANDY
P.O. BOX 1678
HOBBS, NM 88240
FAX TO:

Receiving Date: 08/07/00
 Reporting Date: 08/11/00
 Project Owner: NOT GIVEN
 Project Name: NOT GIVEN
 Project Location: NOT GIVEN
 Job Number: 40100-1
 Sample ID: GRIT TRAP

Analysis Date: 08/08/00
 Sampling Date: 08/07/00
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: GB
 Analyzed By: BC

TCLP VOLATILES (ppm):	EPA LIMIT	Sample Result	Method	QC	%Recov.	True Value
	CLASK	15100-1	Blank			QC
Vinyl Chloride	0.30	<0.005	<0.005	0.057	87	0.100
1,1-Dichloroethene	0.7	<0.005	<0.005	0.102	102	0.100
Methyl Ethyl Ketone	200	0.113	<0.005	0.109	109	0.100
Chloroform	8.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.9	<0.005	<0.005	0.114	114	0.100
Benzene	0.8	<0.005	<0.005	0.108	108	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.108	108	0.100
Trichloroethene	0.5	<0.005	<0.005	0.109	109	0.100
Tetrachloroethene	0.7	0.011	<0.005	0.109	109	0.100
Chlorobenzene	100	<0.005	<0.005	0.106	106	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.111	111	0.100

% RECOVERY

Dibromofluoromethane	95
Toluene-d8	98
Bromofluorobenzene	95

METHODS: EPA SW 846-8260, 1311

Burton J.A. Coyle, P.E.
 Signature

9/11/00
 Date

PLEASE NOTE: Liability and Release. Cardinal's liability and owner's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by owner for services. 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 owner, its subsidiaries, agents or subcontractors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

TRANSACTION REPORT

P. 01

JAN-22-2003 WED 03:48 PM

FOR:

RECEIVE

DATE	START	SENDER	RX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-22	03:45 PM	15053939758	2' 18"	8	RECEIVE	OK		

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

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input checked="" type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 11/15/02	4. Generator Halliburton Energy Services
2. Management Facility Destination Sundance Services Inc.	5. Originating Site Artesia Facility
3. Address of Facility Operator P.O. Box 1737 Eunice NM 88231	6. Transporter Unknown
7. Location of Material (Street Address or ULSTR) 2311 South First, Artesia, NM 88210	8. State 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. 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:

Sundance request to accept waste cement generated at Halliburton's Artesia Yard. 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 disposal. I have attached a certificate of waste for this facility. Please reference Halliburton's Hobbs Yard for junk cement for documentation that was last approved on 04/30/02.

Estimated Volume 300tons cy Known Volume (to be entered by the operator at the end of the haul) _____cy

SIGNATURE Donna Roach TITLE: President DATE: 11/15/02
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Donna Roach TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: <u>[Signature]</u>	TITLE: <u>Enviro ENGR</u>	DATE: <u>12/02/02</u>
APPROVED BY: <u>[Signature]</u>	TITLE: <u>Environmental Geologist</u>	DATE: <u>01-07-03</u>

1-402010

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input type="checkbox"/> ✓ Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> MYK 11/15/02	4. Generator Halliburton Energy Services
2. Management Facility Destination Sundance Services Inc.	5. Originating Site Artesia Facility
3. Address of Facility Operator P.O. Box 1737 Eunice NM 88231	6. Transporter Unknown
7. Location of Material (Street Address or ULSTR) 2311 South First, Artesia, NM 88210	8. State New Mexico
9. <u>Circle One</u> : 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:

Sundance request to accept waste cement generated at Halliburton's Artesia Yard. 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 disposal. I have attached a certificate of waste for this facility. Please reference Halliburton's Hobbs Yard for junk cement for documentation that was last approved on 04/30/02.

Estimated Volume 175 tons cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE _____ TITLE: President DATE: 11/15/02
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Donna Roach TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 11/15/02
APPROVED BY: _____ TITLE: _____ DATE: _____

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

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 2311 South First, Artesia, NM 88210

GENERATING SITE: Halliburton Energy Services, 2311 South First, Artesia, NM 88210

COUNTY: Eddy

STATE: New Mexico

TYPE OF WASTE: Un-used Cement Returned from Location

ESTIMATED VOLUME: 30,000lbs/month

GENERATING PROCESS: Cement is loaded into bulk equipment and delivered to job site. After completion of job, bulk equipment returns to facility and blows Un-used cement back into Waste Cement Tank.

REMARKS: Cement and additives are the same as our Halliburton Facility located in Hobbs, NM at 5801 Lovington Hwy.

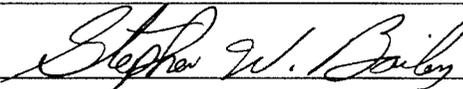
NMOCD FACILITY:

TRUCKING COMPANY: CX Transportation

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 of 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, Subpart 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: _____

NAME: _____STEPHEN W. BAILEY



ADDRESS: 5801 LOVINGTON HWY, HOBBS, NM 88240

DATE: 11-14-02

110000, 1101 00291-1980
 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

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MAY 13 2002

Environmental Bureau
 Oil Conservation Division

Originated &
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 District (

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Halliburton
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	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 88231g. 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.	
<input checked="" type="radio"/> 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 disposal. 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 400 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: 4-30-02
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: ENVIRONMENTAL DATE: 5/7/02

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 5/13/02

051302-2

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Cement

ESTIMATED VOLUME: 1,000, sacks

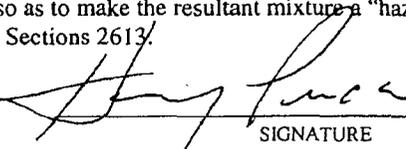
GENERATING PROCESS: Unused cement

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Halliburton

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 of 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: Harvey Price
PRINTED

ADDRESS: 5801 Lovington Hwy

DATE: 4/30/2002

Energy Minerals and Natural Resources Department

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

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

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to appor
District C

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Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Halliburton
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	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.	
<input checked="" type="radio"/> 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 disposal. 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 400 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: 11-12-01
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: Environmental Engr. DATE: 11-16-01

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 11-26-01

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Cement

ESTIMATED VOLUME: 1,000, sacks

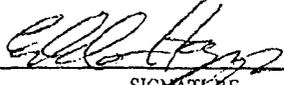
GENERATING PROCESS: Unused cement

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Halliburton

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 of 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: Eddie Hopper

PRINTED

ADDRESS: 5801 Lovington Hwy

DATE: 8/28/2001

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

Originated &
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 to approp
 District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator HALLIBURTON
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site HOBBS FACILI
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter CHAPARRAL
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231g. State NEW MEXICO	
7. Location of Material (Street Address or ULSTR) 5801 Lovinton 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.	
<input checked="" type="radio"/> 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 waste is generated by the washing of tools and oil equipment. This analytical is from Halliburtons Hobbs facility. Sundance would like approval to accpet this waste into our Parabo facility.

Estimated Volume 300 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: 12-31-02
Waste Management Facility Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: *Don Johnson* TITLE: Enviro ENGR DATE: 1/6/03
 APPROVED BY: *Monty J. King* TITLE: Environmental Geologist DATE: 1/10/03

01/005-1

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Wash Rack Grit

ESTIMATED VOLUME: 300,000 lbs.

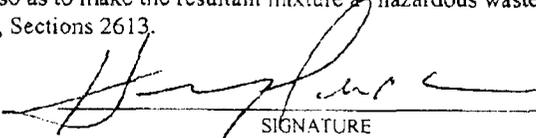
GENERATING PROCESS: Wash Rack Sumps

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Chaparral

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 of 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: Harvey Price

PRINTED

ADDRESS: 5801 Lovington Hwy Hobbs, NM 88240

DATE: 12/31/2002



**ARDINAL
LABORATORIES**

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

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

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: STEVE BAILEY
5801 LOVINGTON HWY
HOBBS, NM 88240

Receiving Date: 02/22/02
Reporting Date: 03/01/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSIS
Project Location: HOBBS, NM

FAX TO:

Sampling Date: 02/22/02
Sample Type: #1 WASTEWATER
#2 SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

REACTIVITY

LAB NUMBE SAMPLE ID

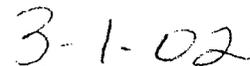
Sulfide Cyanide CORROSIVITY IGNITABILITY
(ppm) (ppm) (pH) (°F)

LAB NUMBE	SAMPLE ID	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/27/02	02/27/02	02/27/02	02/28/02
H6538-1	LOGGING GRIT TRAP	Not reactive	Not reactive	7.47	>140
H6538-2	COMP. EAST & WEST WASHBAY SUMPS	Not reactive	Not reactive	10.4	Nonflammable
Quality Control		NR	NR	7.08	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	101	NR
Relative Percent Difference		NR	NR	0.1	NR

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



Chemist



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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**ARDINAL
LABORATORIES**

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: STEVE BAILEY
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/02
Reporting Date: 02/27/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSES
Project Location: HOBBS YARD
Lab Number: H6538-2
Sample ID: COMPOSITE OF E. & W. WASHBAY SUMPS

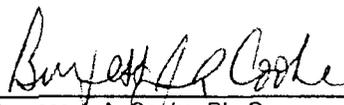
Analysis Date: 02/26/02
Sampling Date: 02/22/02
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	True Value		
				QC	% Recov. QC	
Pyridine	5.00	<0.020	<0.005	0.018	36	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.030	60	0.050
o-Cresol	200	<0.020	<0.005	0.041	82	0.050
m, p-Cresol	200	<0.020	<0.005	0.038	76	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.025	50	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.050	100	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.044	88	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.044	88	0.050

% RECOVERY

Fluorophenol	49
Phenol-d5	37
Nitrobenzene-d5	67
2-Fluorobiphenyl	67
2,4,6-Tribromophenol	67
Terphenyl-d14	66

METHODS: EPA SW-846 1311, 8270, 3510


Burgess J. A. Cooke, Ph. D.

2/27/02
Date

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



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

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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 02/27/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD
 Lab Number: H6538-2
 Sample ID: COMPOSITE OF E. & W. WASHBAY SUMPS

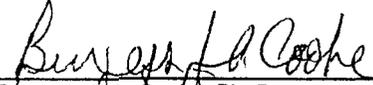
Analysis Date: 02/26/02
 Sampling Date: 02/22/02
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6538-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.112	112	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.085	85	0.100
Chloroform	6.0	<0.005	<0.005	0.099	99	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.098	98	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.099	99	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	0.006	0.040	0.103	103	0.100

% RECOVERY

Dibromofluoromethane	106
Toluene-d8	113
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311


 Burgess J. A. Cooke, Ph. D.

2/27/02
 Date

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



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

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

ANALYTICAL RESULTS FOR
 HALLIBURTON ENERGY SERVICES
 ATTN: STEVE BAILEY
 5801 LOVINGTON HWY
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 02/22/02
 Reporting Date: 03/01/02
 Project Number: NOT GIVEN
 Project Name: SUMP ANALYSES
 Project Location: HOBBS YARD

Analysis Date: 02/28/02
 Sampling Date: 02/22/02
 Sample Type: SLUDGE
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

LAB NUMBER SAMPLE ID TPH
 (mg/Kg)

H6538-2	COMPOSITE OF E. & W. WASHBAY SUMPS	2420
Quality Control		250
True Value QC		240
% Recovery		104
Relative Percent Difference		9.5

METHOD: EPA 418.1

Bryan J. Cooke
 Chemist

3/1/02
 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.

H6538T2.XLS



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: STEVE BAILEY
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/02
Reporting Date: 03/01/02
Project Number: NOT GIVEN
Project Name: SUMP ANALYSES
Project Location: HOBBS YARD

Analysis Date: 02/28/02
Sampling Date: 02/22/02
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/L)
H6538-1	LOGGIN GRIT TRAP	1490
Quality Control		9.67
True Value QC		10.0
% Recovery		96.7
Relative Percent Difference		0.8

METHOD: EPA 418.1


Chemist

3/1/02
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.

H6538T1.XLS

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

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-1
 Originated 8/8
 Submit Original
 Plus 1 Copy
 to appropriate
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Halliburton
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	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 88231g. 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 disposal. 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 400 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: 12-31-02
Waste Management Facility Authorized Agent
 TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Eng DATE: 1/6/03
 APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 1/10/03

011005-2

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Hobbs Yard

COUNTY Lea STATE NM

TYPE OF WASTE: Cement

ESTIMATED VOLUME: 1,000, sacks

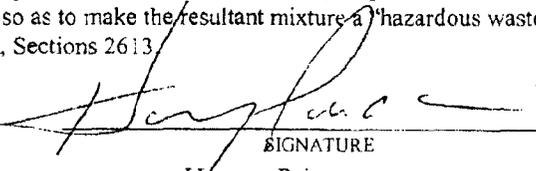
GENERATING PROCESS: Unused cement

REMARKS: _____

NMOCD FACILITY: Sundance

TRUCKING FACILITY: Halliburton

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 of 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

NAME: Harvey Price

PRINTED

ADDRESS: 5801 Lovington Hwy

DATE: 12/31/2002

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 ERG
94,282 #5K

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.
HAI-9	21	lbs.
CFR-3	92	lbs.
Gilsonite	1,320	lbs.
HAIAD-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

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.: 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.: HALAD(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 X 10 MG/M3 10 MG/M3
SILICA, CRYSTALLINE--QUARTZ < 3 X 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 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.

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 POZHIX(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

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
SILICA, AMORPHOUS-FUMED	> 60	10 MG/M3	6 MG/M3

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

PROPERTY	MEASUREMENT
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 LOLO: 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/ POZHIX 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 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 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 X 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, DR, 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

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

N/A

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

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

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

CHEMICAL CONTAINS NO TOXIC INGREDIENTS

6. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA YES EEC NO ACCIN N/D NPR NE DRSM NE

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

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 DRSM 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 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
NATURAL ASPHALT	> 60 %	10 MG/M3	15 MG/M3

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

PROPERTY	MEASUREMENT
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 ACCIN N/D NPR NE ORSM NE

I. 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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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

MODIFIED ACRYLAMIDE COPOLYMER) 60 X 10 MG/M3 15 MG/M3

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

PROPERTY MEASUREMENT

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 ACDIN 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 WORSENEO 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 *****

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:-

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 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

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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: 31600
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
ODOR	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 ND F / ND C
 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 *****

CA SINOGENIC 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/23D-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

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E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES CEPA NE EEC YES ACOIN YES NPR NE DRSM NE

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