

Price, Wayne

From: Sent: To: Cc: Subject: Price, Wayne Wednesday, December 05, 2001 11:58 AM 'Mike @ Whole Earth'; Price, Wayne Carolyn Haynes RE: L-21 Closure

The OCD hereby approves of the closure plan for the L-21 site.

Please be advised that NMOCD approval of this plan does not relieve Rice Operating Company of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Rice Operating Company of responsibility for compliance with any other federal, state, or local laws and/or regulations.

----Original Message----From: Mike @ Whole Earth [mailto:whearth@iamerica.net] Sent: Monday, November 19, 2001 8:37 AM To: Wayne Price Cc: Carolyn Haynes Subject: L-21 Closure

Wayne,

I'm in receipt of your e-mail of November 17th regarding the L-21 Closure Project.

Having reviewed your request, I can see how we failed to define the test points adequetly. (A mistake we shall not make in the future.)

B,N,E,W & S all refer to the tank area excavation and relate to compass points within the excavation, (ie, N = North). Each side-wall sample was taken from the area having either the most stain or odor and thus may come from various depths within the excavation. Each is a discrete sample. The bottom sample is a five point composite taken from each of the corners and the excavation center.

Those codes designated PN, PE, etc., come from the small pit area northwest of the the main excavation. Sample locations were all from the individual spots within the walls showing evidence of staining or odor. Again, the PB sample is a five point composite.

1

Please advise if you need anything further on this project.

Have a great Thanksgiving week!

Mike Griffin

Price, Wayne

From: Sent: To: Cc: Subject: Mike @ Whole Earth [whearth@iamerica.net] Monday, November 19, 2001 8:37 AM Wayne Price Carolyn Haynes L-21 Closure

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Wayne,

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Please advise if you need anything further on this project.

Have a great Thanksgiving week!

Mike Griffin

Price, Wayne

From: Sent: To: Cc: Subject: Price, Wayne Saturday, November 17, 2001 12:24 PM 'riceswd@leaco.net' 'whearth@iamerica.net' Rice L-21 Remediation Project

Contacts: Carolyn Doran Haynes

Dear Ms. Haynes:

The OCD is in receipt of the above subject request for closure document dated March 20, 2000. IN order to issue closure OCD requires the following information:

1. Please supply documentation via E-mail describing the analytical field codes. Where were these samples taken? ie. depth, location, etc.

RICE Operating

L-21 Remediation Project



Whole Earth Environmental 19606 San Gabriel Houston, Tx. 77084

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. Z 577 009 795

March 20, 2000

-1-1. RECEIVED MAN A 2 2 2 10 Environmental Bureau Oil Conservation Division

RECEIVED MAR 2 3 2000 LEnvironmental Bureau Commental Bureau Nicinan

Mr. Wayne Price NM Energy, Minerals, and Natural Resources Dept. Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

RE: REDWOOD TANK AND EMERGENCY OVERFLOW PIT (Permit No. H-73) CLOSURE REPORT FOR EME SWD FACILITY L-21 Unit Letter L, Sec. 21, T21S, R36E Lea County, New Mexico

Mr. Price:

Rice Operating Company (ROC) appreciates the consideration and response of the NMOCD concerning the closure plan revisions for the emergency overflow pits and below-grade redwood tanks. At this time, based on the following report, ROC petitions the NMOCD for closure of Pit Permit # H-73 and the below-grade redwood tanks at the Eunice-Monument-Eumont (EME) Salt Water Disposal Site SWD Well L-21, located in Unit L, Sec. 21, T21S, R36E, Lea County, NM.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The EME System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Closure projects require System Partner AFE approval and work begins as funds are received. The Closure Project AFE for the SWD L-21 Facility was approved by the System Partners and work was started in January 2000.

The final excavation of the tank site and the pit site resulted in TPH and BTEX levels at bottoms and sides that are below the recommended guidelines for vadose zone impact when groundwater is more than 100 feet below surface. Groundwater at this site is 175'-245'.

The sources of contamination have been removed and the impacted soil has been excavated to delineation of <100ppm TPH and <250 ppm Cl. The highly impacted soil (about 10%) was properly disposed at a licensed facility and the remaining soil was blended with clean fill soil to an average level of <500 ppm TPH. A compacted clay layer was installed in the bottom of the excavation and the blended soil was used to backfill.

EME SWD L-21 Rdwd Tk; Pit Closure Report March 20, 2000 Page 2 of 2

This facility is currently operating with a temporary tank system in preparation for new fiberglass tanks. There will be two 500bbl flow-through tanks and one 500bbl overflow tank. The tanks will be erected at surface elevation, on top of a 30 mil polyethylene liner, installed to protect the vadose zone from any detrimental impact for the remaining useful life of the facility.

The 2.5-acre lease with the NM State Land Office is valid for this site until June 2000. ROC has every expectation that the lease for this site will be renewed.

ROC is applying for closure at the L-21 Facility and is submitting the Pit Remediation and Closure Final Report. Thank you for your consideration of this closure request.

If you have any questions, please call.

RICE OPERATING COMPANY

Caroly Doran (taynes

Carolyn Doran Haynes Operations Engineer

Enclosures Pit Remediation and Closure Report L-21 Facility State Land Office Lease Copy Pit Inventory Permit H-73 Pit Inventory Forms Generic Closure Work Plans – 3rd Revision Photos, Maps, Analytical Data of Site and Excavations Disposal Manifests

Cc: KH, file, Ms. Donna Williams, NMOCD, District I Office 1625 N. French Drive Hobbs, NM 88240

> Mr. Leon Anderson NM State Land Office 3830 N. Grimes Suite C Hobbs, NM 88240



RECEIVED MAR 2 3 2000 Environmental Bureau Oil Conservation Division

Executive Summary

Whole Earth Environmental, Inc. began the remediation of the Rice Operating L-21 site on February 22, 2000. The L-21 Station is a brine disposal facility consisting of two 25' diameter redwood storage tanks, an injection well and related ancillary equipment.

Preliminary Site Preparation

Prior to the commencement of the remediation operations, Rice dismantled the wooden storage tanks removed the transite flowlines and expanded the site perimeter to accommodate equipment access. The cement bases of the tank were thoroughly cleaned and left in place. Two temporary 500 bbl storage tanks were temporarily placed at the northeast corner and one temporary 210 bbl. tank at the southeast corner of the facility.

Remediation Detail

The cement base structures were demolished and subsequently buried in four locations (see enclosed plat map) at depths sufficient to insure that the top of the cement shards were a minimum of 5' below ground level. The tank area was excavated to a depth of approximately 9' below ground level and field tested for the presence and concentrations of TPH, BTEX and chlorides. Approximately 180 cubic yards of contaminate soil was excavated and transported to Sundance Disposal facility, near Eunice, New Mexico.

Donna Williams of the NMOCD Hobbs office was notified on February 24th that the site was available for OCD sampling or witness. Composite samples of each side wall and excavation bottom were collected in accordance with WEQP-77 (enclosed) and sent to Environmental Labs of Texas (test results and chain of custody documents are provided within this report. All results were nominal.

The excavation was lined with approximately 18' of clay and density tested by Pettigrew and Associates on March 3rd (density analysis and associated proctor are included within this report).

The excavation was backfilled with remediated topsoils with composite samples collected at each 3' lift. The site was finally contoured to match the existing topography and an area prepared for new storage tanks. District I 1625 N. French Drive, Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos, Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit 1 copy to Appropriate District Office and 1 copy to Santa Fe Office

PIT REMEDIATION AND CLOSURE REPORT

Operator:	RICE OPERATING COM	IPANY	Telephone	:	
Address:	Address: 122 West Taylor, Hobbs, NM 88240				
Facility or: Well Name	SWD L-21				
Location: L	Unit or Qtr/Qtr Sec Unit Le	ette L Sec 21	T21SR36	E County L	EA
Pit type:	Emergency Overflow Pit	Permit # <u>H-73; 2-</u> 1	Below-grade Redwood Tan	ks (not permitted))
Land Type:	BLMState	XX Fee	Other		
Pit Location (Attach diagram	Reference: wellhead	YES	width <u>17'</u> other		<u></u>
	Footage from reference:	NE Corner of pit i	$s \sim 130'$ West then 3' Sout	h of Wellhead L-2	21
	Direction from reference:	Degrees	East North of West South		
Depth to Gr (Vertical dista contaminants high water ele ground water)	to seasonal evation of		Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	0
(Less than 20) domestic wate	rotection Area) feet from a private r source, or, less than a all other water sources)		Yes No	(20 points) (0 points)	0
(Horizontal di lakes, ponds,	Surface Water: stance to perennial rivers, streams, creeks, als and ditches)		Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(10 points)	0
			RANKING SCORE (TO	TAL POINTS):	0

Date Remediation Started:	February 29, 2000 Date Completed: March 4, 2000
Remediation Method: Exc	avation YES (180yds) Approx. cubic yards total 1980
(Check all appropriate sections) Lan	dfarmed YES (1800yds) In-situ Bioremediation
Oth	er Commercial Landfarm
(ie.: landfarmed onsite, name and location of	Onsite Offsite Sundance Parabo, Eunice, NM
offsite facility)	
General Description of Rem	nedial Action: Cleaned and dismantled below-grade redwood tanks and concrete bases.
Excavated and disposed o	f highly impacted soil at the redwood site and the overflow pit site. Excavation
continued until bottoms a	nd sidewalls of sites measured < 100 TPH. Excavation was then covered
with a compacted clay-lay	er, excavated soil blended < 1000 TPH and sampled by lift as backfill progressed.
Test results and color pho	to reproductions are included in this closure package.
Ground Water Encountered	: No NO Yes Depth (175-245')
Final Pit Closure Sampling (if multiple samples, attach sample results	Sample location <u>See attached diagrams</u> . All analytical reports, CoC, etc., are <u>included in the accompanying closure package submitted with this report</u> .
and diagram of sample locations and depths)	Sample depth
	Sample date March 2,3, 2000 Sample time
	Sample Results Benzene (ppm)all < 0.100mg/kg
	Total BTEX (ppm)all < 1.000mg/kg; high of 0.928mg/kg
	Field headspace (ppm)
	TPH bottoms, sides <100ppm. Blended fill average: 494ppm TPH
Ground Water Sample:	Yes No _XX (If yes, attach sample results)
I HEREBY CERT	IFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.
DATE MARCH 20, 200	
SIGNATURE Curry	Dran Haynes TITLE OPERATIONS ENGINEER

rinds1 - (505) 393-6161
P. C. Box 1980
Hobbs. NM 88241-1980
District 11 - (505) 748-1283
VIBILITY COULD BE SEEN
all S. Perk
Arusia, NM 88210
A MI /5053 374 4178
District [1] - (505) 334-6178
1000 Ris Basse Road
ATT NM 87410
ATTEL TIM BITTO
District IV - (505) \$27-7131
District IV · (203) B4/-/ Lat

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

Originated 6/27/97

Subout Original Plus 1 Copy to Santa Fe

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PIT INVENTORY FORM

Operator:	RICE OPERATING COMPANY
Address:	122 West Taylor
	Hobbs, New Mexico 88240
Phone Numbe	(505) 393-9174
Previous Oper	ator(s): None
Is the pit perm	nitted: Yes 🔲 No 🗶
Unit Letter: L	Section: 21 Township: 21S Range:
County:	Lea County
Cation Nam	Eunice-Monument-Fumont_Salt_Water_Disposal_Well_L-21
Number of we	lls to the pit: System Terminal Tanks (Varies)
Are the wells to	o the pit operated by one operator 🗌 or multiple operators 🏠
Total daily vol	ume (in barrels) to the pit:1,500
Pit Type: 2	-Below ground redwood terminal tanks
(Emergency, Produ	scrion, Workovez Reserve/Drilling(gresser than 6 months old). Flaz. Blowdown, Seperator, Dehydrator. //Tank Bottoms, Compressor, Figging, Washdown, or other)
What types of	wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water)
Pit age (years):	35
Is the pit lined	I or wlined
Type of liner (N	ione.Synthetic Clay): Redwood tank resting on concrete pad
Is leak detectio	n present: Yes 🔀 No 🗋 Observation boxes around tanks
Is the pit netter	d: Yes⊠ No⊡Covered with redwood top
Pit dimensions ((LxWxD):
CERTIFICATIO	NN
Creby certify	that the information submitted is true and correct to the best of my knowledge and belief.
Řc	oger Hall Operations Engineer
Name	Phron Itall Date 10/31/97
Signature:	Date Date [0/31/77

A pit is defined as any below grade or surface feature which receives any materials other than fresh water.

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0. Box 1960 Energy Minerals and N. scher, NM \$8241-1980 Energy Minerals and N. strict 11 - (505) 748-1283 Oil Conser 1 5. First 2040 Sout	w Mexico atural Resources Department rvation Division th Pacheco Street
An The Restort Ford	lew Mexico 87505 Subrus Origi) 827-7131 Pies I Co to Sense to Sense
PIT INVE	NTORY FORM
Operator: RICE OPERATING COMPANY	
Address: 122 WEST TAYLOR	
Hobbs, New Mexico 88240 Phone Number: (505) 393-9174	
Previous Operator(s):None	
Is the pit permitted: Yes 🔯 No	
Unit Letter: L Section: 21 Township: 215 R	36E
County: Lea County	· · · · ·
Location Name: FMF Salt Water Disposal Sys	tem Well (-21
Location Name: EME Salt Water Disposal Sys Number of wells to the pit: 1	tem Well L-21
Number of wells to the pit: 1	ltiple operators
Number of wells to the pit:1 Are the wells to the pit operated by one operator 🖾 or mu Total daily volume (in barrels) to the pit:None Pit Type:Emergency	ltiple operators
Number of wells to the pit:1	aths old).Fisz. Blowdowa, Seperator. Dehydrator. other)
Number of wells to the pit:1 Are the wells to the pit operated by one operator 🕅 or mu Total daily volume (in barrels) to the pit:None Pit Type:Emergency (Emergency, Production, Workover, Reserve/Drilling(greater than 6 mon Line Drip, BS& W/Tank Bottoms, Compressor, Pigging, Washdowa, or What types of wastes are accepted in the pit (Exempt, Non-	aths old).Fise. Blowdown, Seperator. Dehydrator. other) Exempt (production water)
Number of wells to the pit: 1 Are the wells to the pit operated by one operator X or mu Total daily volume (in barrels) to the pit: None Pit Type: Emergency (Emergency, Production, Workover, Reserve/Drillingtgreater than 6 more Lise Drip. BS& W/Tank Bottoms, Compressor, Piging, Washdows, or What types of wastes are accepted in the pit (Exempt, Non- Pit age (years): 35	aths old).Fise. Blowdown, Seperator. Dehydrator. other) Exempt (production water)
Number of wells to the pit: 1 Are the wells to the pit operated by one operator IX or mu Total daily volume (in barrels) to the pit: None Pit Type: Emergency (Emergency, Production, Workover, Reserve/Drillingtgreater than 6 mon Line Drip. BS&W/Tank Bottom, Compressor, Figing, Washdows, or What types of wastes are accepted in the pit (Exempt, Non- Pit age (years): 35 Is the pit lined or unlined IX	Itiple operators
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Number of wells to the pit: 1 Are the wells to the pit operated by one operator or mu Total daily volume (in barrels) to the pit: None Pit Type: Emergency (Emergency Freduction. Workover. Reserve/Drillingtgreater than 6 mon Lise Drip. BS& W/Tank Bottoms. Compressor. Pigging. Washdown. or fillingt greater than 6 mon What types of wastes are accepted in the pit (Exempt. Non- Pit age (years): 35 Is the pit lined or unlined (X) Type of liner (None, Synthetic, Clay) : None Is leak detection present: Yes No (X)	Itiple operators
Number of wells to the pit: 1 Are the wells to the pit operated by one operator or mu Total daily volume (in barrels) to the pit: None Pit Type: Emergency Pit Type: Emergency (Emergency Production. Workover. Reserve/Drillingtgreater than 6 mon Line Drip. BS& W/Tank Bottoms. Compressor. Pigning. Washdown. or in What types of wastes are accepted in the pit (Exempt. Non- Pit age (years): 35 Is the pit lined or unlined X Type of liner (None, Synthetic, Clay) : None Is leak detection present: Yes No X Is the pit netted:	Itiple operators
Number of wells to the pit: 1 Are the wells to the pit operated by one operator or mu Total daily volume (in barrels) to the pit: None Pit Type: Emergency (Emergency Emergency (Emergency, Production, Workover, Reserve/Drillingtgreater than 6 mon Line Drip, BS& W/Tank Bottoms, Compressor, Pigning, Washdowa, or it What types of wastes are accepted in the pit (Exempt, Non- Pit age (years): 35 Is the pit lined or unlined X Type of liner (None, Synthetic, Clay) : None Is leak detection present: Yes No X Is the pit netted:	Itiple operators
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Number of wells to the pit: 1 Are the wells to the pit operated by one operator or multiplication of the pit in the pit in the pit in the pit intervention. Workover, is serve/Drillingtpreater than 6 months in the pit intervention. Workover, Reserve/Drillingtpreater than 6 months is bring. BS& W/Tank Bottoms. Compressor. Pigging, Washdowa, or it is bring. BS& W/Tank Bottoms. Compressor. Pigging, Washdowa, or it is bring. BS& W/Tank Bottoms. Compressor. Pigging, Washdowa, or it is the pit types of wastes are accepted in the pit (Exempt, Non-Pit age (years): 35 Is the pit lined in or unlined in the pit (Exempt, Non-Pit age (years): 35 Is the pit lined in or unlined in the pit (Exempt, Non-Pit age (years): 35 Is the pit lined in or unlined in the pit (Exempt, Non-Pit age (years): 35 Is the pit lined in or unlined in the pit (Exempt, Non-Pit age (years): 35 Is the pit lined in or unlined in the pit (Exempt, Non-Pit age (years): 35 Is the pit netted: Yes in No in pit Non-Pit age (years): State pit netted: Yes in No in pit Non-Pit age (years): State pit netted: Yes in No in pit Non-Pit age (years): State pit netted: Yes in No in pit Non-Pit age (years): State pit netted: Yes in No in pit Non-Pit age (years): State pit netted: Yes in No in pit Non-Pit age (years): State pit netted: Yes in No in pit Non-Pit age (years):	Itiple operators

Submit 4 Copies to Appropriate District Office	State of New Mexico Energy, Minerals and Natural Resources Department	Form C-134 Aug. 1, 1989
DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980	OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088	
D. Drawer DD, Artesia, NM 88211-0719 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	Salla Fe, New Michiel 67504-2006	(For Division Use Only)
	ATION FOR EXCEPTION TO DIVISION ORD GRATORY BIRDS Rule 8(b), Rule 105(b), Rule 3	
Operator Name: Rice Engin	eering Corporation	
Operator Address: 122 W. Tay	lor, Hobbs, New Mexico 88240	
Lease or Facility Name_E-M-E_S	WD System Well L-21 Location	L 21 21S 36E
Size of pit or tank: $51'x17'x2\frac{1}{2}$	' deep, approx. 400 bbls.	Ut. Ltr. Sec. Twp. Rge
Operator requests exception from t	he requirement to screen, net or cover the pit or tank at	the above-described facility.
The pit or tank is n	ot hazardous to migratory waterfowl. Describe complete	ely the reason pit is non-hazardous.
The pit is used	only in emergencies such as major	well remedial work.
<u>Normally kept em</u>	pty.	
Method: Vacuum t		uired for removal:
Time: Within 2	4 hrs. of discovery	
2) If any oil or hydrocart appropriate District O	oons reach the above-described facility the operator is reffice of the OCD with 24 hours.	equired to notify the
Operator proposes th	e following alternate protective measures:	
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· · · · · · · · · · · · · · · · · · ·	·	
CERTIFICATION BY OPERATOR: knowledge and belief. Signature		DateJuly 25, 1990
Printed Name S. A. Haktani	rTelephone No. 393-91	<u>174 ·</u>
FOR OIL CONSERVATION DIVISIO Date Facility Inspected 8/2/90 .spected by Carcolle	NUSE Approved by <u>El</u> Title <u>DIL & (</u> Date <u>SEP</u>	05 in i

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. Z 577 009 531

February 23, 2000

Mr. Wayne Price NM Energy, Minerals, and Natural Resources Dept. Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

RE: REDWOOD TANK AND EMERGENCY OVERFLOW PIT (Permit No. H-73) CLOSURE PLAN FOR EME SWD FACILITY L-21 Unit Letter L, Sec. 21, T21S, R36E Lea County, NM

Mr. Price:

Rice Operating Company requests closure plan approval for the emergency overflow pit, Pit Permit # H-73 and the below-grade redwood tanks at the Eunice-Monument-Eumont (EME) Salt Water Disposal Site SWD Well L-21, located in Unit L, Sec. 21, T21S, R36E, Lea County, NM.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The EME System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Closure projects require System Partner AFE approval and work begins as funds are received.

The Closure Project AFE for the SWD L-21 Facility has been approved by the System Partners and work was started in January 2000.

The L-21 facility is included in the Rice Operating Company (ROC) generic closure plan for emergency pits and below-grade redwood tanks and is the third facility to apply under the generic plan. Rather than repair the below-grade redwood tanks, the EME SWD System will replace them with aboveground fiberglass tanks (including an emergency overflow tank) set within secondary containment (poly-liner). The emergency overflow pit will be closed. ROC expects to simultaneously close the pit and tanks pursuant to NMOCD guidelines and the ROC generic plan (awaiting February 23, 2000 revision approval). The enclosed C-103 form addresses this intention and defines the site-specific assessment for OCD guidelines. Supporting documentation is also enclosed. EME SWD L-21 Rdwd Tk; Pit Closure Plan February 23, 2000 Page 2 of 2

This facility is currently operating with a temporary tank system and the below-grade redwood tanks have been dismantled and removed. The tank materials have been properly disposed and will be included in the manifests of the Final Closure Report.

ROC will schedule all major events with a 48-hour advance notice to the NMOCD. Ms. Donna Williams has visited this site and Whole Earth Environmental will be the on-site manager of the excavation project. The Final Closure Report will follow at the end of the project.

Thank you for your consideration of this closure plan request.

RICE OPERATING COMPANY

Carolyn Dnan Harmes

Carolyn Doran Haynes Operations Engineer

Enclosures Cc: KH, file, Ms. Donna Williams, NMOCD, District I Office 1625 N. French Drive Hobbs, NM 88240

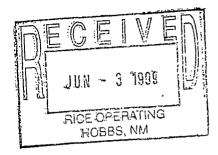




OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505).827-7131

June 1, 1999

CERTIFIED MAIL RETURN RECEIPT NO. Z 357 870 131



Carolyn Doran Haynes Rice Operating Company 122 West Taylor Hobbs, NM 88240

Re: Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks (Generic Closure Work Plan) for Rice Operating Company's saltwater disposal system facilities.

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) has reviewed Rice Operating Company's (ROC) closure work plans dated March 22, 1999 and revisions to the plans dated April 23, 1999 for the saltwater disposal system facilities. The NMOCD Hereby approves the plans subject to the following conditions:

- 1. ROC shall complete all monitor well(s) as follows:
 - a. At least 15 feet of well screen shall be placed across the water table interface with 5 feet of the well screen above the water table and 10 feet of the well screen below the water table.
 - b. An appropriately sized gravel pack shall be set in the annulus around the well screen from the bottom of the hole to 2-3 feet above the top of the well screen.
 - c. A 2-3 foot bentonite plug shall be placed above the gravel pack.
 - d. The remainder of the hole shall be grouted to the surface with cement containing 3-5% bentonite.
 - e. A concrete pad shall be placed at the surface around the well. The well shall be installed with a suitable protective locking device.
 - f. The well(s) shall be developed after construction using EPA approved procedures.

Ms: Haynes June 1, 1999 Page 2

- 2. No less than 48 hours after the well(s) are developed, ground water from all monitor well(s) shall be purged, sampled and analyzed for concentrations of benzene, toluene, ethyl benzene, xylene, polycyclic aromatic hydrocarbons (PAH's), total dissolved solids (T.S.) and New Mexico Water Quality Control Commission (WQCC) metals and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC) procedures.
- 3. ROC shall notify OCD pursuant to Rule 116 upon discovery of groundwater contamination.
- 4. All final soil samples submitted for laboratory analyses shall be sampled for BTEX (8021), TPH (418.1 or 8015 GRO & DRO) and Chlorides.
- 5. ROC will notify the OCD Santa Fe office and the OCD District office at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples during OCD's normal business hours.
- 6. ROC is required to sample and provide to NMOCD the analytical test results for each side wall and bottom of any excavated areas. The samples taken shall be tested for BTEX (8021), TPH and Chlorides. Composite samples will be allowed if there are no obvious hot spots. TPH methods can be EPA 418.1, or 8015 if both GRO and DRO are ran. All sampling and testing shall be pursuant to approved EPA methods and procedures.
- 7. All wastes generated during the investigation shall be disposed of at an OCD approved site.
- 8. ROC shall submit a report of the investigations to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office. ROC must receive NMOCD approval before commencing backfilling, liner or new equipment installations. The report shall include the following:
 - a. A description of all investigations, remediation and monitoring activities which have occurred including conclusions, recommendations, risk assessments and request for implementation of any future work and/or closure.
 - b. A geologic/lithologic log and well completion diagram for all soil borings and/or monitor well(s).
 - c. Vertical and horizontal Isopleth maps for remaining contaminants of concern which were observed during the investigations.

Ms: Haynes June 1, 1999 Page 3

- e. Summary tables of all soil and/or ground water quality sampling results and copies of all laboratory analytical data sheets and associated QA/QC data collected.
- f. The quantity and disposition of all wastes generated.

Please be advised that NMOCD approval of this plan does not relieve ROC of liability should their investigations and/or operations fail to adequately investigate and/or remediate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve ROC of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs Office

RICE Operating Company

122 West Taylor • Hobbs, NM 88240 Phone: (505) 393-9174 • Fax: (505) 397-1471

April 23, 1999

Mr. Wayne Price NM Energy, Minerals and Natural Resources Department Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

Re: Revision of Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks

Mr. Price:

Enclosed are the revised Closure Plans for Below Grade Redwood Tanks and for Permitted Emergency Pits. The revisions concern changes in items #3B, #8 and #10 for the Below Grade Redwood tanks and items #4B, #6 and #8 for the Permitted Emergency Pits, as directed by our telephone conversation of April 22, 1999, and your subsequent e-mail.

It is important to reiterate that **all activities** pertaining to closure of emergency pits and replacement of the redwood tanks will be conducted **pursuant to NMOCD guidelines**. All site assessments, work plans, time schedules, sample and test plans, impacted soil removal, replacement tankage and facilities, etc., will be specifically fitted to the particular site applying for closure but will generally follow these generic plans. NMOCD will be notified in advance of significant occasions and will be consulted throughout the closure process for concurrence of plan alterations, assessment and analytical interpretations, etc.

Also enclosed are preliminary generic drafts of the open, below-ground-level replacement tank facility that you requested. The elevation of the collection vessel is vital to the system's gravity-flow capability, and in most cases, the replacement tank facility must remain at the same lower-than-surface elevation as the redwood tanks. Each site will be assessed for elevation limitations and the replacement facility will be designed accordingly. Rice Operating Company proposes to contain new tanks and piping within a concrete, sealed and frequently inspected (for integrity) vault-like enclosure, thus insuring future impact minimization to the environment and the public.

Thank you,

Carram Doran Haynes

Carolyn Doran Haynes Operations Engineer



Enclosures Cc KH; JC; file; Ms. Donna Williams, OCD District I, Hobbs, NM

RICE Operating Company

122 West Taylor • Hobbs, NM 88240 Phone: (505) 393-9174 • Fax: (505) 397-1471

March 22, 1999

Mr. Wayne Price NM Energy, Minerals and Natural Resources Department Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

Re: Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks

Mr. Price:

Enclosed are copies of emergency pit permits and below grade redwood tank installations for our operations in Lea County, New Mexico, that were previously submitted to NMOCD in October, 1997. This documentation serves as a list of facilities operated by Rice Operating Company (ROC) that contain or have contained pits or below grade tanks.

Closure plans for two locations, F-29 and H-35, are in process with the OCD now. The generic "Closure Plan for Below Grade Redwood Tanks" detailed below will accommodate the systematic closure of existing ROC operated below-grade redwood tanks. The existing emergency pits will be closed pursuant to the generic "Closure Plan for Permitted Emergency Pits", also detailed below. It is expected that at facilities containing both, the below-grade redwood tank (s) and the emergency pit will be closed at the same time, but under separate closure plans and closure reports.

Rice Operating Company is the service provider (operator) for these salt-water disposal systems in SE NM. Rice Operating has no ownership of any of the pipelines, wells, or facilities. Each system is owned by a consortium of oil producers and they are called "System Partners," and the System Partners provide all operating capital on a percentage ownership/usage basis. Each location will independently require System Partner AFE approval and advance billing for the closure funds. Only after funds are received can closure work begin.

Thank you,



Carolyn Doran Haynes Operations Engineer

Cc KH; JC; file; Ms. Donna Williams, OCD District I, Hobbs, NM

Closure Plan for Below Grade Redwood Tank



- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- Procure soil samples from 3' below bottom of tanks (9-11' below grade) at tank sides.
 A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 4.
 B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 3.
- 3. Delineate any portion of tank site that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 4.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 4. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing.
- 5. Move onto SWD facility site with temporary tank system. Re-route fluid flow from below grade redwood tanks into the temporary tank system. Plumb to SWD well.
- 6. Empty and clean redwood tanks, properly disposing of any BS & W. Excavate sides of redwood tanks to allow for working space to manipulate tank support banding. Remove redwood tanks reserving boards for proper disposal.
- 7. Excavate ramp into redwood tank hole. Remove and properly dispose of concrete base.
- 8. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 9. Procure random 5-point composite bottom sample from 3'below tank bottom and random 4point composite side sample for lab TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 11.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 10.
- 10. Evaluate site for risk assessment: propose to excavate hole bottom and sides as practical to minimize risk; install 40-mil polyethylene liner on sanded bottom, graded to direct moisture accumulation away from the impacted area; cover and compact bottom with 2' sand fill.
- 11. Apply to NMOCD for closure of redwood tank site per NMOCD guidelines and site results.
- 12. After approval is received, proceed with installation of new fiberglass or steel tanks and appropriate plumbing changes within engineered secondary containment system.

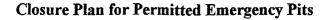
Closure Plan for Permitted Emergency Pits

- **REVISED** 4-23-99
- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Remove and properly dispose of visibly contaminated soil pursuant to NMOCD guidelines.
- 3. Procure soil samples from surface and 3' below excavation bottom and excavation sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 6.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 4.
- 4. Delineate any portion of excavation that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 5.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for Chloride and BETX levels. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 5. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing
- 6. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 7. Procure random 5-point composite bottom sample and random 4-point composite side sample for laboratory TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 9.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 8.
- 8. Evaluate site for risk assessment. Excavate bottom and sides to a depth and width that is deemed practical by soil analytical results. Install a 40-mil polyethylene liner on bottom, graded to provide water run-off away from the contamination left in place below the liner; cover and compact over the liner with 1-2' of sand fill.
- 9. Apply to NMOCD for closure of permitted emergency pit site per NMOCD guidelines and site results.
- 10. After approval is received, proceed with backfill and grading of pit site with clean soil and/or appropriately blended soil compatible with the on-site soil.

Closure Plan for Below Grade Redwood Tank

2-23-00

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Procure soil samples from 3' below bottom of tanks (9-11' below grade) at tank sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 4.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 3.
- 3. Delineate any portion of tank site that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 4.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 4. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing.
- 5. Move onto SWD facility site with temporary tank system. Re-route fluid flow from below grade redwood tanks into the temporary tank system. Plumb to SWD well.
- 6. Empty and clean redwood tanks, properly disposing of any BS & W. Excavate sides of redwood tanks to allow for working space to manipulate tank support banding. Remove redwood tanks reserving boards for proper disposal.
- 7. Excavate ramp into redwood tank hole. Remove and properly dispose of concrete base if impacted. If concrete is not impacted, use as fill (below plow depth) in excavation area.
- 8. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 9. Procure random 5-point composite bottom sample from 3'below tank bottom and random 4-point composite side sample for lab TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 11.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 10.
- 10. Evaluate site for risk assessment: delineate to assess depth and horizontal extent of impact corresponding to NMOCD guidelines for site assessment value; excavate bottom and sides as practical to minimize risk; install compacted clay liner to meet or exceed 95% of a Proctor Test ASTM-D-698 with permeability (hydraulic conductivity) equal or less than 1x10⁻⁷ cm/sec for containment/isolation of impact.
- 11. Discuss results/risk assessment with NMOCD for verbal approval to proceed with backfill/installation of new tanks and plumbing within engineered secondary containment system.
- 12. Apply to NMOCD for closure of redwood tank site per NMOCD guidelines and site results.



- **REVISED** 4-23-99 2-23-00
- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Remove and properly dispose of visibly contaminated soil pursuant to NMOCD guidelines.
- 3. Procure soil samples from surface and 3' below excavation bottom and excavation sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 6.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 4.
- 4. Delineate any portion of excavation that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5" intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 5.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 5. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing
- 6. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 7. Procure random 5-point composite bottom sample and random 4-point composite side sample for laboratory TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 9.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 8.
- 8. Evaluate site for risk assessment: delineate to assess depth and horizontal extent of impact corresponding to NMOCD guidelines for site assessment value; excavate bottom and sides as practical to minimize risk; install compacted clay liner to meet or exceed 95% of a Proctor Test ASTM-D-698 with permeability (hydraulic conductivity) equal or less than 1x10⁻⁷ cm/sec for containment/isolation of impact.
- 9. Discuss results/risk assessment with NMOCD for verbal approval to proceed with backfill.
- 10. Apply to NMOCD for closure of permitted emergency pit site per NMOCD guidelines and site results.

NEW MEXICO STATE LAND OFFICE

SALT WATER DISPOSAL EASEMENT

SALT WATER DISPOSAL EASEMENT NO. SWD-063

THIS AGREEMENT, dated this 10th day of June, 1998, made and entered into between the State of New Mexico, acting by and through the undersigned, its Commissioner of Public Lands, hereinafter called the grantor, and Rice Engineering, 122 West Taylor, Hobbs, New Mexico 88240, hereinafter called the grantee,

WITNESSETH:

That, whereas, the said grantee has filed in the Land Office an application for salt water disposal easement and has tendered the sum of \$500.00, together with the sum of \$30.00 application fee;

NOW, THEREFORE, in consideration of the foregoing tender, receipt of which is acknowledged, and the covenants herein, grantor does grant to the grantee a salt water disposal easement for the sole and only purpose of underground disposal of salt water produced in connection with oil and gas operations, together with the right to make such reasonable use of the land as may be necessary to dispose of said salt water. Said easement shall cover the following described lands:

INSTITUTION	SECTION	TOWNSHIP	RANGE	SUBDIVISION	ACRES
C.S.	21	21S	36E	Portion Within	2.5
			NWIASWIA		

TO HAVE AND TO HOLD said lands and privileges hereunder for a term of \underline{Two} years from the date first above written, subject to all terms and conditions hereinafter set forth:

1. Grantee shall pay the grantor the sum of <u>\$500.00</u> annually, in advance.

2. With the consent of the grantor and payment of a fee of \$30.00, the grantee may surrender or relinquish this salt water disposal easement to the grantor; provided, however, that this surrender clause shall become absolutely inoperative immediately and concurrently with the filing of any suit in any court or law or equity by the grantor or grantee or any assignee to enforce any of the terms of this salt water disposal easement.

3. The grantee, with the prior written consent of the grantor, may assign his salt water disposal easement in whole only. Upon approval of the assignment, in writing, by the grantor, the grantee shall stand relieved from all obligations to the grantor with respect to the lands embraced in the assignment, and the grantor shall likewise be relieved from all obligations to the assignor as to such tracts, and the assignee shall succeed to all of the rights and privileges of the assignor with respect to such tracts and shall be held to have assumed all of the duties and obligations of the assignor to the grantor as to such tracts.

4. The grantor may cancel this salt water disposal easement for nonpayment of annual consideration or for violation of any of the terms and covenants hereof; provided, however, that before any such cancellation shall be made, the grantor must mail to the grantee or assignee, by registered mail, addressed to the post office address of such grantee or assignee, shown by the records, a thirty-day notice of intention to cancel said salt water disposal easement, specifying the default for which the salt water disposal easement is subject to cancellation. No proof of receipt of notice shall be necessary and thirty days after such mailing, the grantor may enter cancellation unless the grantee shall have sooner remedied the default. 5. The grantee shall furnish copies of records and such reports and plats of his operations, including any and all data relating to geological formations as the grantor may reasonably deem necessary to his administration of the lands.

6. Grantee may make or place such improvements and equipment upon the land as may reasonably be necessary to dispose of salt water, and upon termination of this salt water disposal easement for any reason, grantee may remove such improvements and equipment as can be removed without material injury to the premises; provided, however, that all sums due the grantor have been paid and that such removal is accomplished within one year of the termination date or before such earlier date as the grantor may set upon thirty days written notice to the grantee. All improvements and equipment remaining upon the premises after the removal date, as set in accordance with this paragraph, shall be forfeited to the grantor without compensation. All pipelines constructed hereunder shall be buried below plow depth.

7. This salt water disposal easement is made subject to all the provisions and requirements applicable thereto which are to be found in various acts of the legislature of New Mexico and the rules of the Commissioner of Public Lands of the State of New Mexico, the same as though they were fully set forth herein, and said laws and rules, so far as applicable to this salt water disposal easement, are to be taken as a part hereof.

8. All the obligations, covenants, agreements, rights and privileges of this salt water disposal easement shall extend to and be binding and inure to the benefit of the lawful and recognized assigns or successors in interest of the parties hereto.

9. Grantee shall post with grantor a bond or undertaking in an amount required by grantor in favor of the owner of improvements lawfully located upon the lands herein to secure payment of damage, if any, done to such improvements by reason of grantee's operations.

10. Payment of all sums due hereunder shall be made at the office of the Commissioner of Public Lands, 310 Old Santa Fe Trail, P. O. Box 1148, Santa Fe, New Mexico 87504-1148.

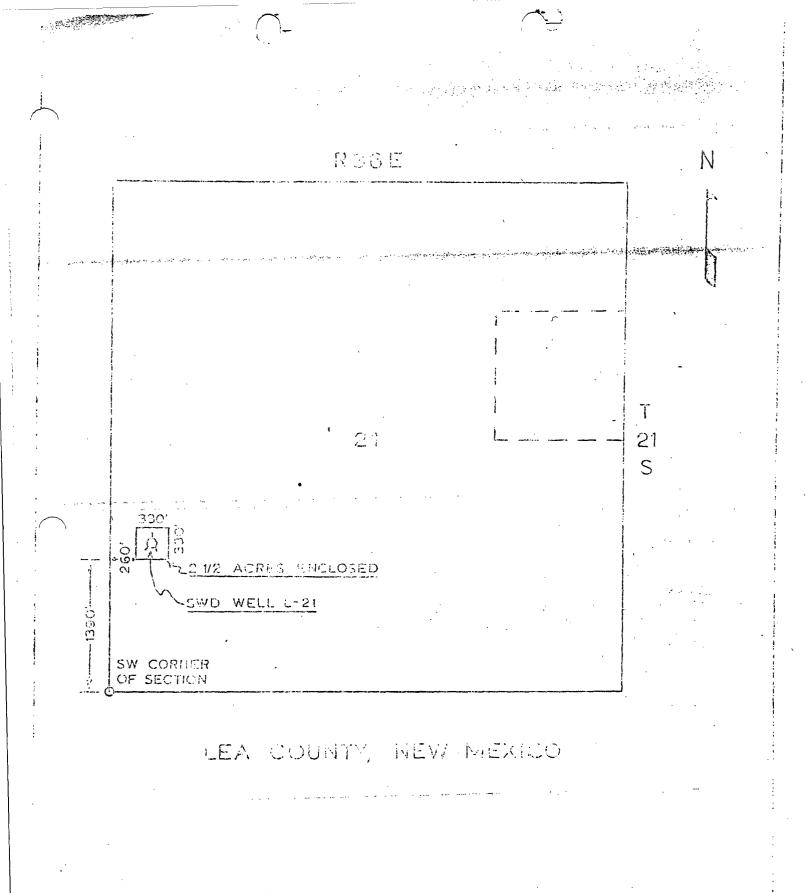
11. Grantee, including his heirs, assigns, agents, and contractors shall at their own expense fully comply with all laws, regulations, rules, ordinances, and requirements of the city, county, state, federal authorities and agencies, in all matters and things affecting the premises and operations thereon which may be enacted or promulgated under the governmental police powers pertaining to public health and welfare, including but not limited to conservation, sanitation, aesthetics, pollution, cultural properties, fire, and ecology. Such agencies are not to be deemed third party beneficiaries hereunder; however, this clause is enforceable by the grantor as herein provided or as otherwise permitted by law.

12. Grantee shall save and hold harmless, indemnify and defend the State of New Mexico, the Commissioner of Public Lands, and his agent or agents, in their official and individual capacities, of and from any and all liability claims, losses, or damages arising out of or alleged to arise out of or indirectly connected with the operations of grantee hereunder, off or on the herein above described lands, or the presence on said lands of any agent, contractor or sub-contractor of grantee.

AFFIRMATION OF GEOLOGIC, ENGINEERING & HYDROLOGIC INVESTIGATION: I hereby affirm that the available geologic and engineering data have been examined and no evidence has been found of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

IN WITNESS WHEREOF, the State of New Mexico has hereunto signed and caused its name to be signed by its Commissioner of Public Lands, thereunto duly authorized with the seal of his office affixed, and the grantee has signed this agreement to be effective the day and year above written.

$ \rightarrow $	
	(PERSONAL ACKNOWLEDGMENT)
STATE OF) ss)
	strument was acknowledged before me this day of,19,by
) ss.) ss. strument was acknowledged before me this day of , 19, as attorney-in-fact on behalf of
STATE OF <u>Texas</u>	
COUNTY OF Midla) ss. nd)
The foregoing ins	trument was acknowledged before me this <u>7th</u> day
of <u>Rice Enginee</u>	19 <u>98</u> , by Loy B. Goodheart , <u>President</u> (NAME) (TITLE) ring Corporation PORATION)
My Commission Exp	pires: November 15, 1999 Notary Public: Mana Autouna Schunge
	MARIA KATHERINA SCHWARTZ MY COMMISSION EXPIRES November 15, 1999



DWN AMM 6-63	BUSINESS LEASE EME SWD WELL L-21	frasta 1″# 10001
	Rich English and the Constitute date.	

5.3 (1.44) (2.46) (2.5)

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Site Profile

Location

The site is situated approximately 6 miles northwest of Eunice New Mexico. The legal descriptions and geo-coordinates are described on the attached plat map.

Site History

The site was used as a temporary storage station for four water disposal lines feeding a brine disposal system. The storage equipment has been made redundant by changes within the disposal system.

The main physical features at the site are two 25' diameter redwood storage tanks, a wellhead, a 210 bbl. fiberglass chemical storage tank and an emergency overflow pit.

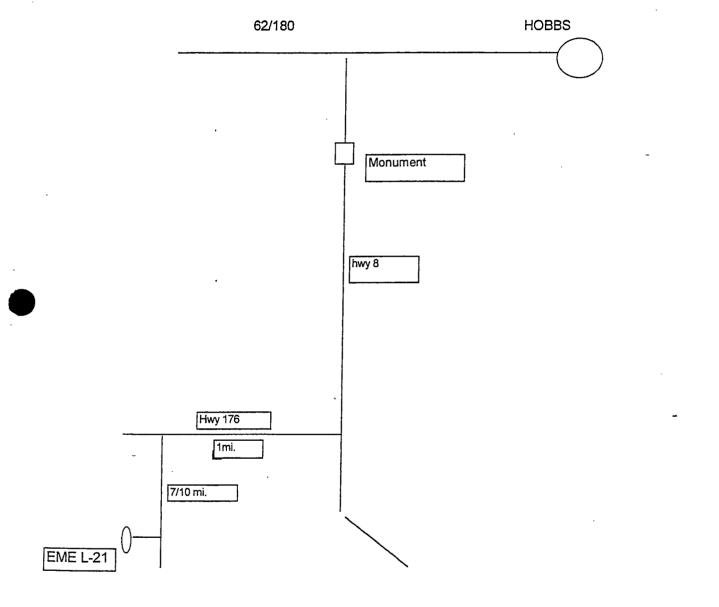
Land Use

The site is on New Mexico State Lands. The primary land use is oil and gas production. The topography is unremarkable.

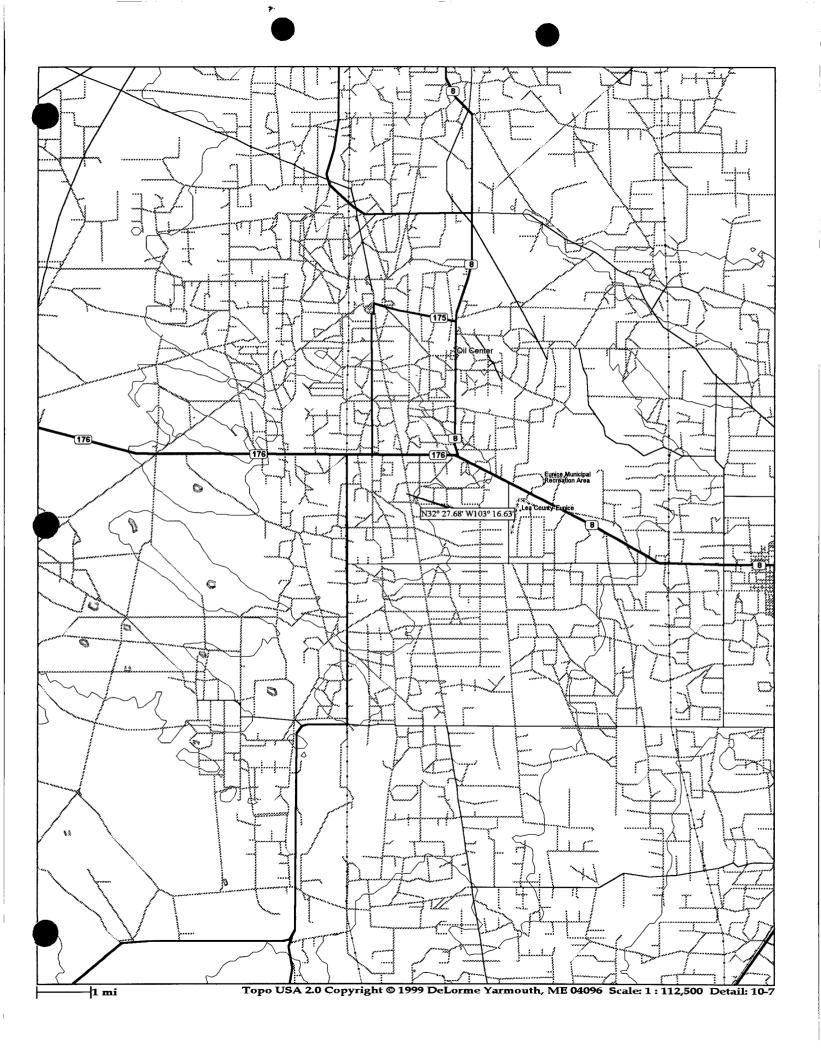
Distance to Surface and Ground Water

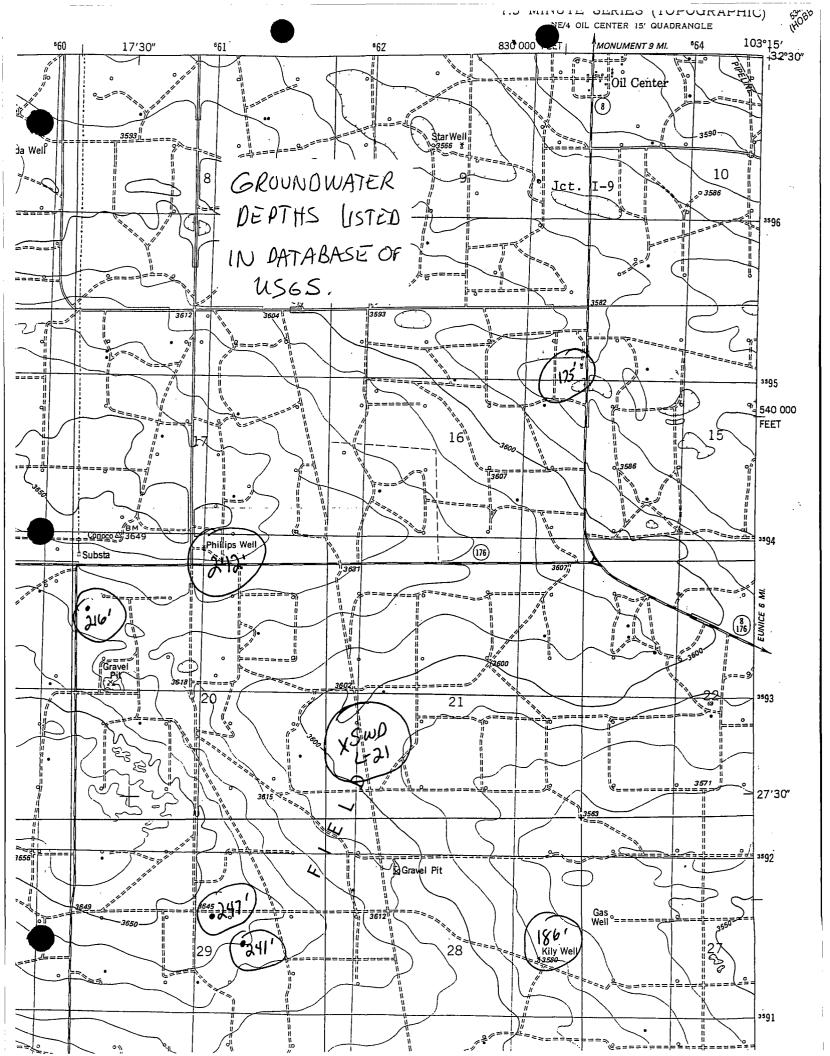
There are no windmills, water pumps or surface waters within one mile of the facility. The vertical distance to groundwater is estimated to be over 100' System: EME Well: L-21 Legals: 21-21S-36E

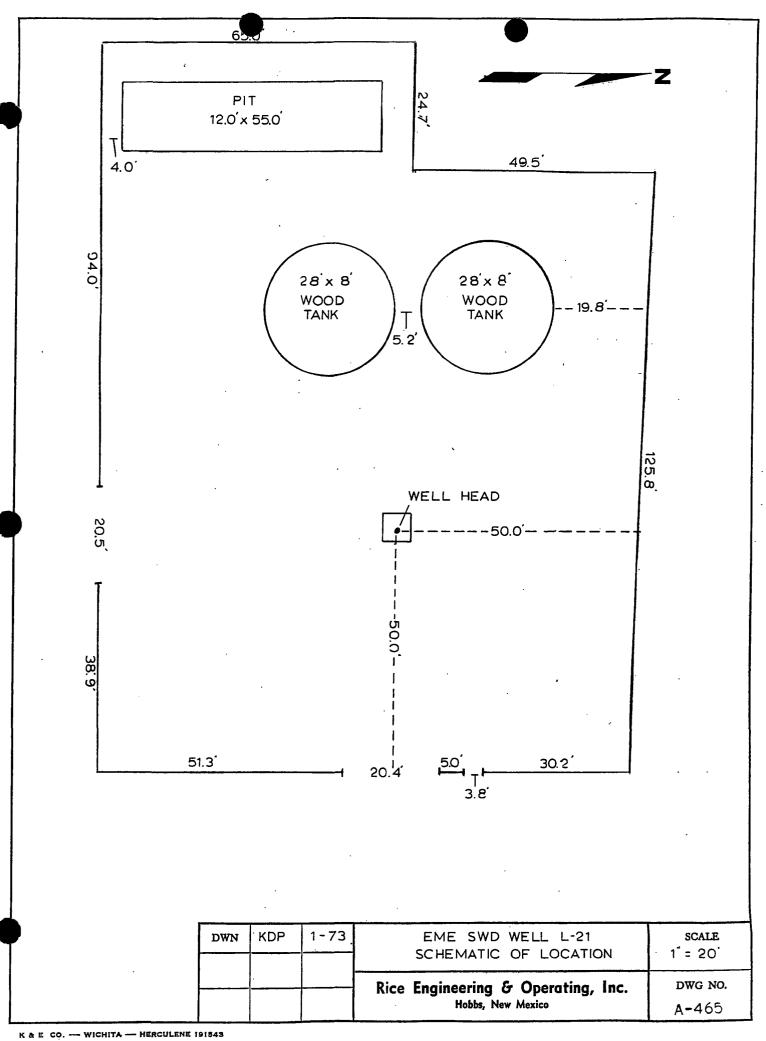
South of Monument on Hwy 8 to the junction of Hwy 176. Turn west on Hwy 176 and go 1 mile. Turn left through cattle guard and go 7/10 mile south. Turn right into location.

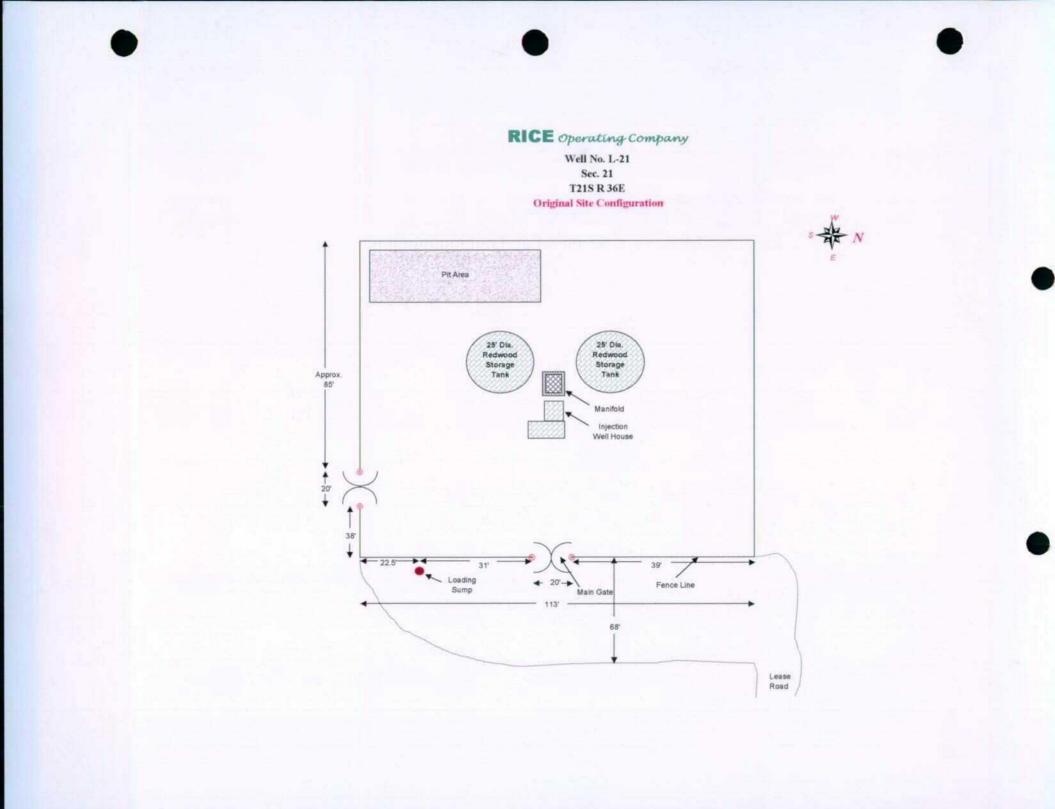


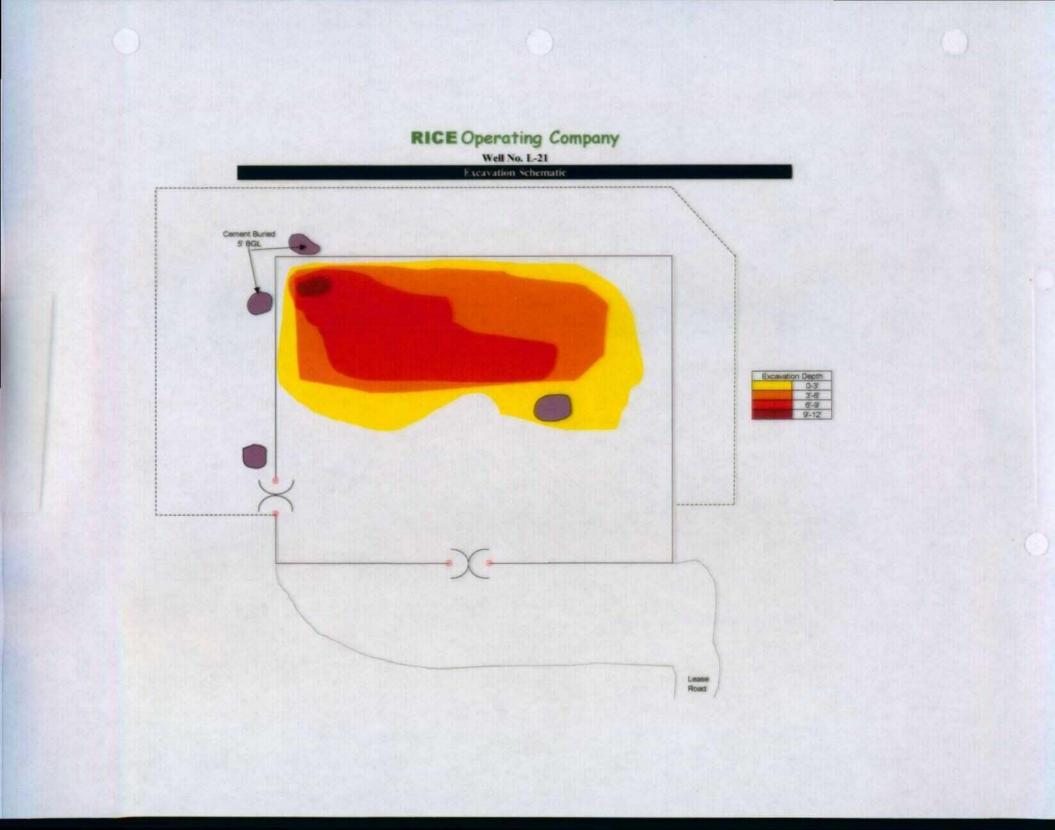
Submit 3 Copies To Appropriate District Office State of New Mexico Energy, Minerals and Natural Resources Department	Form C-103 Revised 1-1-89			
DISTRICT I RO Box 1980 Hobbs NM 88240 OIL CONSERVATION DIVISION	WELL API NO.			
2040 South Pacheco Santa Fe, NM 87505	30-025-21852			
DISTRICT II 811 South First, Artesia NM 88210	5. Indicate Type of Lease STATE FEE □			
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	6. State Oil & Gas Lease No.			
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS	7. Lease Name or Unit Agreement Name: Eunice-Monument-Eumont Salt Water Disposal System, SWD Facility L-21			
1. Type of Well: Oil Well Gas Well Other Emergency pit and Below-grade Redwood Tank				
2. Name of Operator RICE OPERATING COMPANY	8. Well No. L-21			
3. Address of Operator 122 West Taylor, Hobbs, NM 88240	9. Pool name or Wildcat			
4. Well Location Unit letter L : 1520 feet from the SOUTH line and 440 feet fi	rom the			
Section 21 Township 21 South Range 36 East NMPM, 10. Elevation (Show whether DF, RKB, RT, GR, etc. 3589' above sea level	Lea County, NM			
Check Appropriate Box to Indicate Nature of Notice, Reported and Abandon Remedial WORK	REPORT OF: ALTERING CASING			
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT			
PULL OR ALTER CASING CASING TEST AND CEMENT JOB OTHER: Remove below-grade redwood tanks and close OTHER:				
 emergency pit 12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, proposed work). SEE RULE 1103. Proposed work according to generic closure plans for below grade redwood tanks a 				
Delineate site for contamination, remove redwood tanks, close emergency overflow pit (Pit Permit # H-73) and clean-up location pursuant to NMOCD guidelines. Replace redwood tanks with fiberglass tanks within an engineered secondary-containment. Work began in January, 2000 under approved generic closure plan (attached). All major events will be coordinated to allow 48 hrs notice to OCD.				
Information from the State Engineer's Office in Roswell estimated depth to ground water at 175-247' and india "G" of Section 29, T21S-R36E, which is more than 5000' from the facility at Well L-21. Topographic maps si bodies within 1000' of the L-21 facility. A site review indicated no water sources at all within 1000' feet of the	now no indication of surface water			
Depth to ground water: >100' = 0; No water source within 1000' = 0; >1000' to surface water body = 0 S	ite Assessment=0			
I hereby certify that the information above is true and complete to the best of my knowledge and belief.				
SIGNATURE avolyn Anan Haynes	DATE 2-23-00			
Type or print name CAROLYN DORAN HAYNES T This space for State use) T	Felephone No. 505-393-9174			
APPROVED BY TITLE	DATE			
Conditions of approval, if any:				

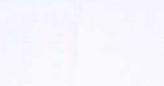






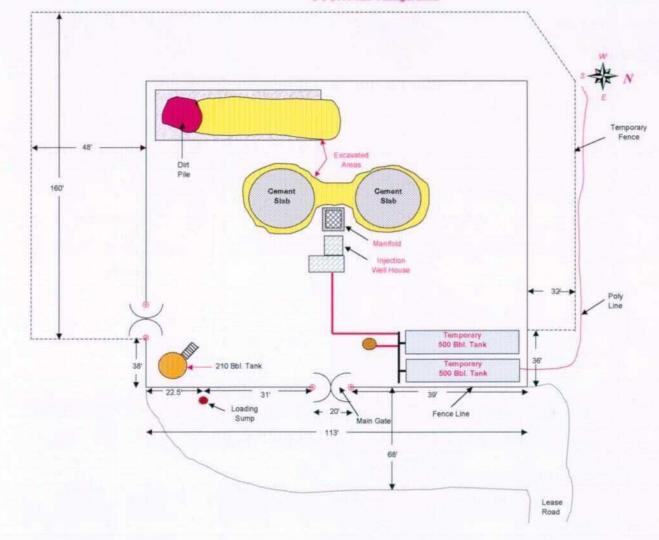








Well No. L-21 2-1-2000 Site Configuration



RICE ENGINEERING CORPORATION E.M.E. SWD SYSTEM WELL NO. L-21 NW/4 SW/4, SEC. 21-T21S-R36E DISPOSAL ORDER NO. R-3102

CAUTION

FLAMMABLE

GAS MAY BE

PRESENT

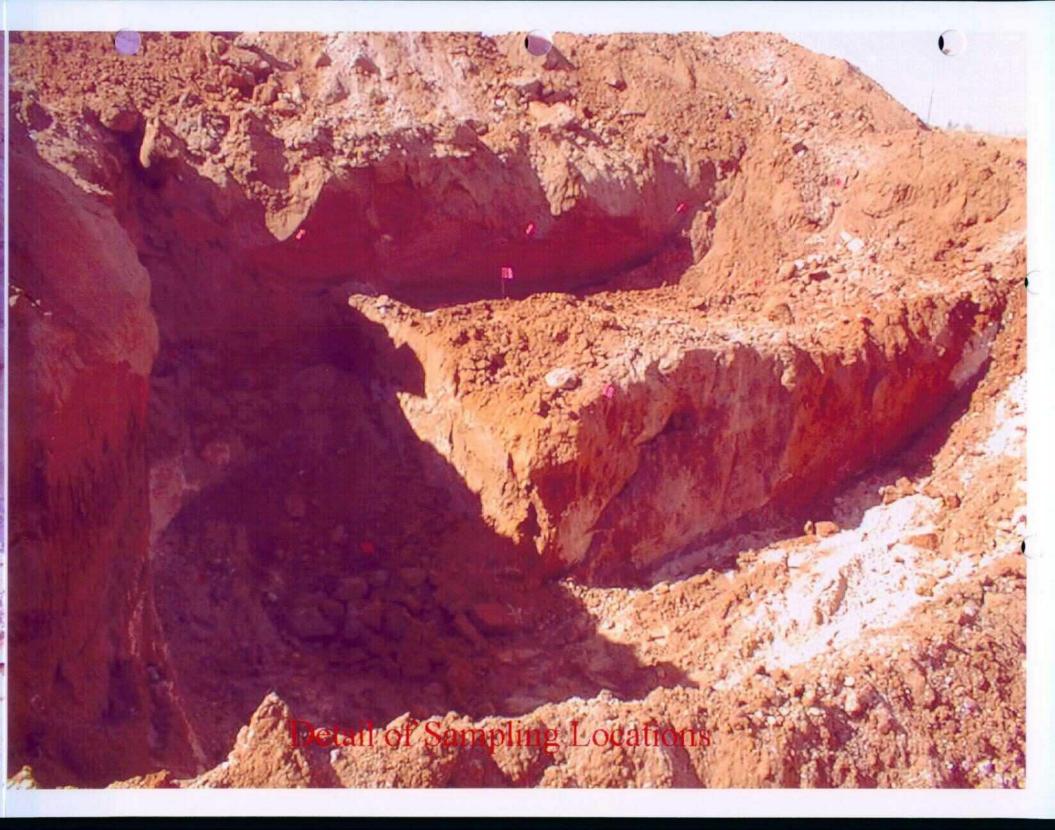
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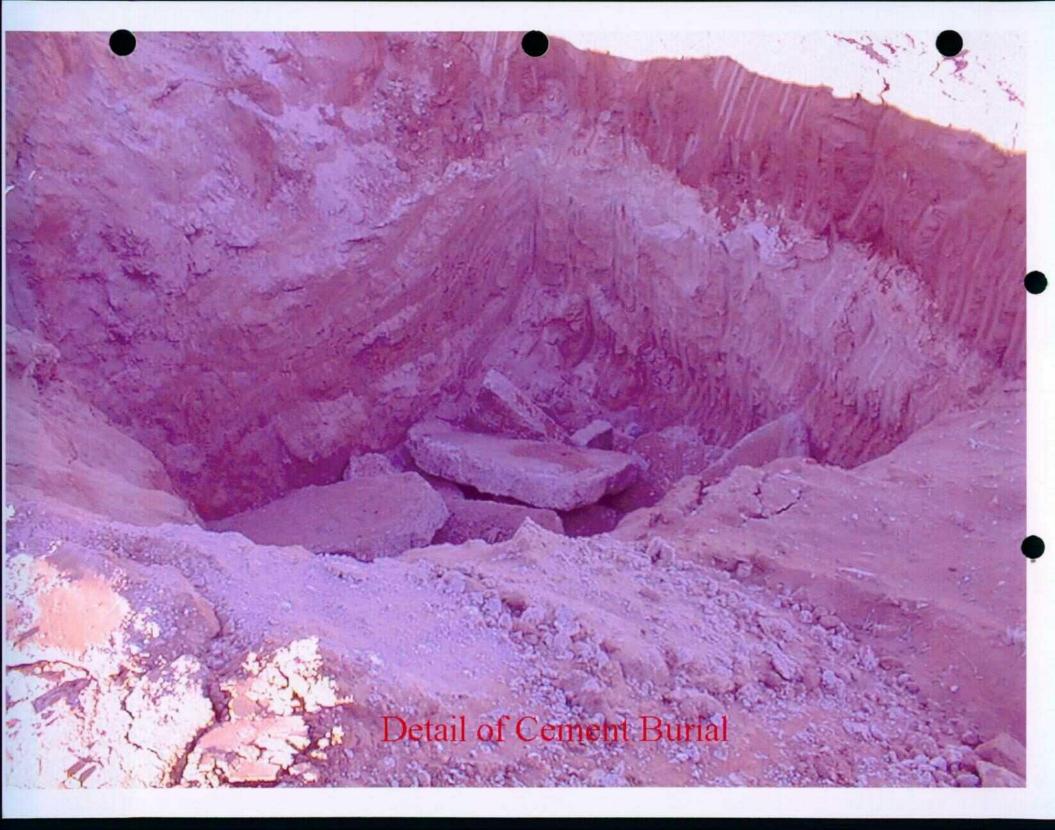






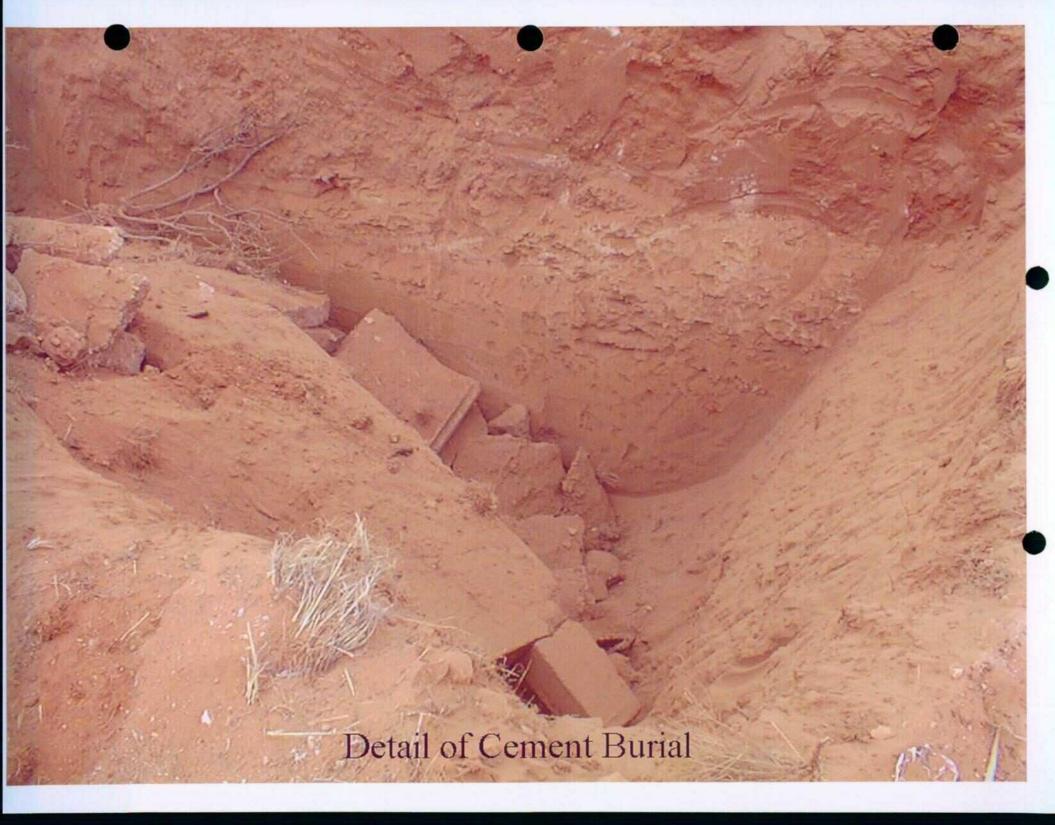


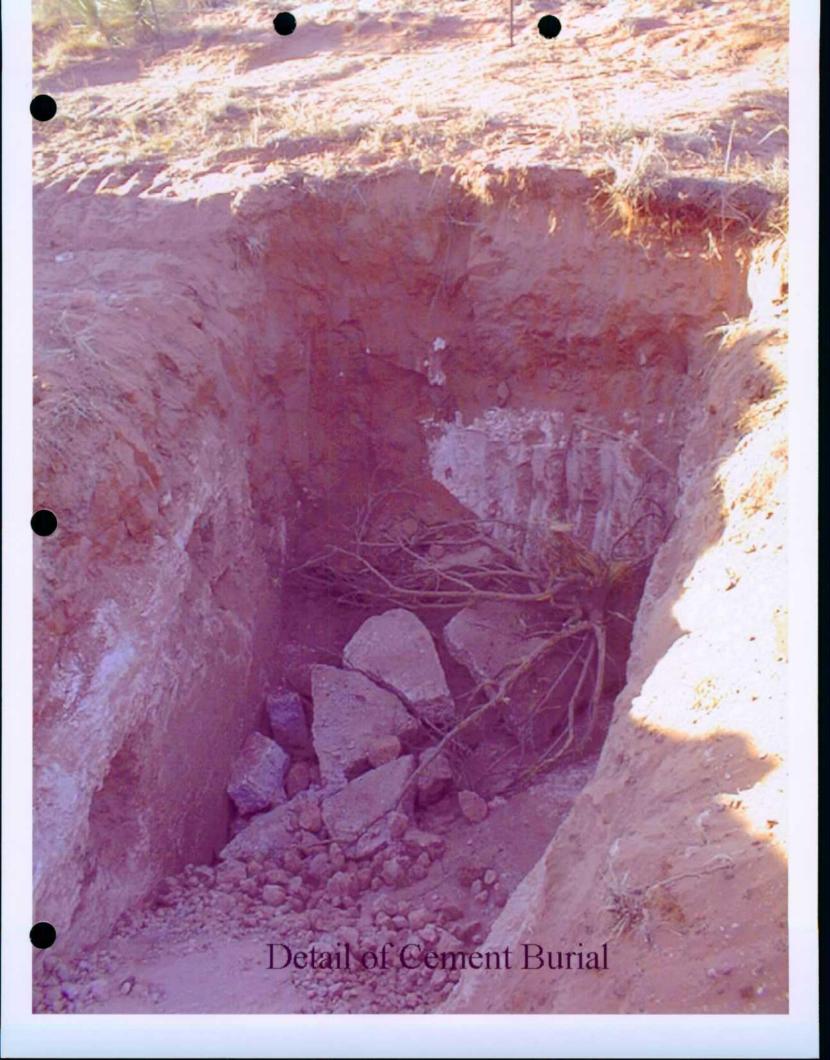


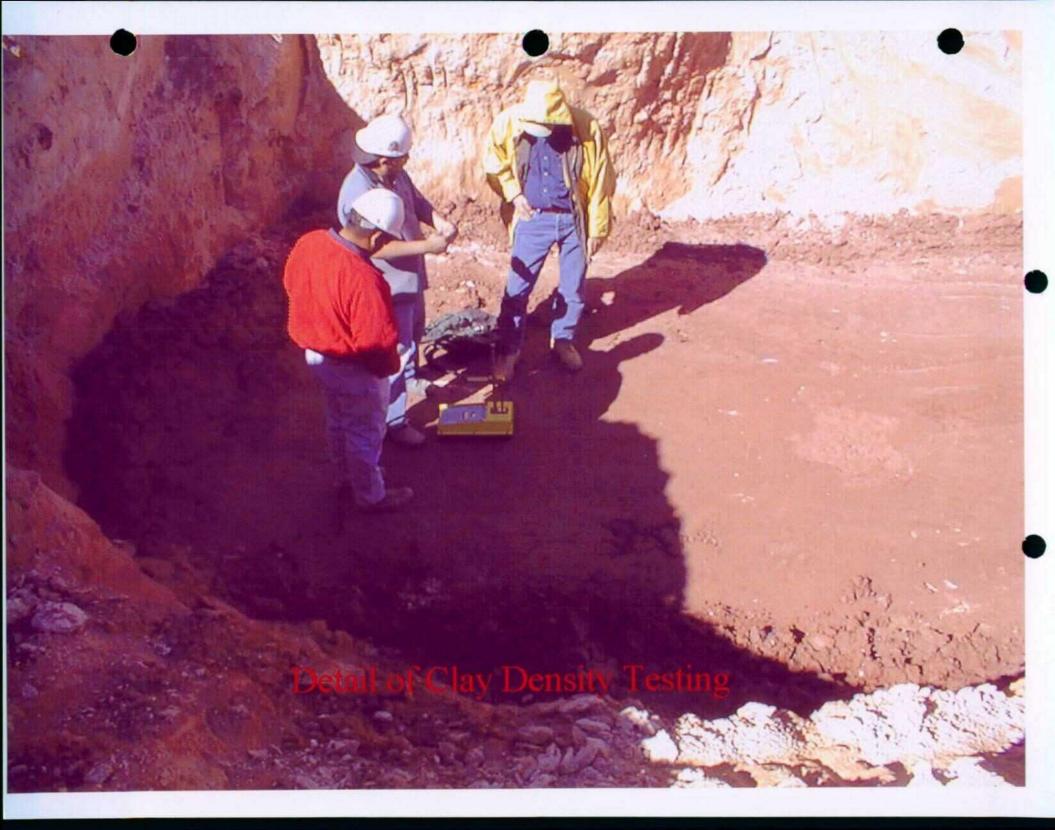


Detail of Cement Burial

El.

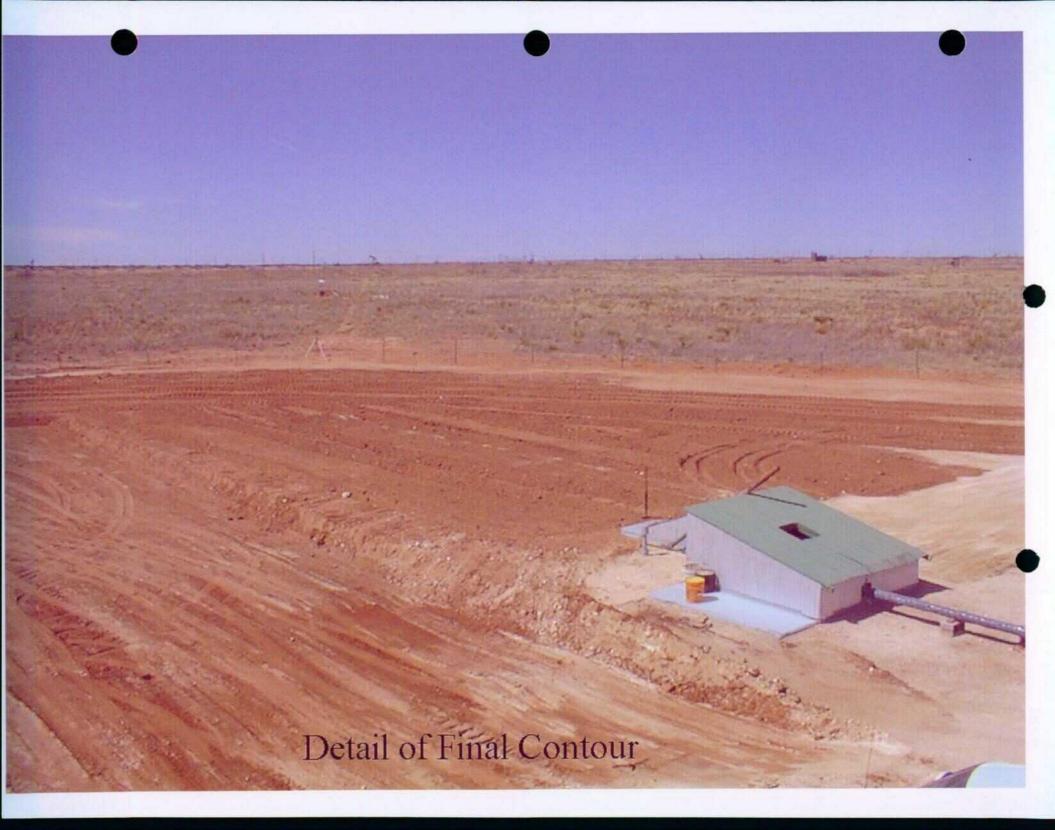






Detail of Tank Prep. Area







Protocol

This section contains a copy of the remediation protocol used on this project.



PR-32

Remediation Protocol Rice Operating Company Site L-21

1.0 Purpose

This protocol is to provide a detailed outline of the steps to be employed in the remediation of a pit located south of Hobbs, New Mexico.

2.0 Scope

This protocol is site specific for the Rice Operating remediation project.

3.0 Preliminary

Prior to any field operations, Whole Earth Environmental shall conduct the following activities:

3.1 Client Review

- 3.1.1 Whole Earth shall meet with cognizant personnel within Rice to review this protocol and make any requested modifications or alterations.
- 3.1.2 Changes to this protocol will be documented and submitted for final review by Client prior to the initiation of actual field work.

4.0 Safety

4.1 Prior to work on the site, Whole Earth shall obtain the location and phone numbers of the nearest emergency medical treatment facility. We will review all safety related issues with the appropriate Client personnel, sub-contractors and exchange phone numbers.

4.2 A tailgate safety meeting shall be held and documented each day. All subcontractors must attend and sign the daily log-in sheet.

4.3 Anyone allowed on to location must be wearing sleeved shirts, steel toed boots, and long pants. Each vehicle must be equipped with two way communication capabilities.

PR-32

4.4 Prior to any excavation, New Mexico One Call will be notified. The One Call notification number will be included within the closure report. If lines are discovered within the area to be excavated they shall be marked with pin flags on either side of the line at maximum five foot intervals.

5.0 Remediation Procedure

5.1 All soils containing a TPH concentration >100 ppm, chlorides > 250 ppm and all soils containing a benzene concentration>10ppm or a total BTEX concentration >50ppm will be excavated. Soils containing TPH concentrations >5,000 ppm will be transported to Sundance Services. The side walls and bottom of the excavation will be field tested for TPH and BTEX concentrations in accordance with WEQP-06 and WEQP-19.

5.2The Hobbs branch of the OCD will be notified to witness the final confirmation sampling of the side walls and bottom of the excavation. Samples will be collected in accordance with WEQP-77 and analyzed for TPH and BTEX.

5.3 The pit bottoms will be covered with proctored clay and compacted to 100% density.

5.3 The remaining soils will be mixed and blended with sub-strait materials to achieve the concentrations of <1,000 ppm TPH, <10 ppm benzene and <250 ppm chlorides.

6.0 Closure Report

6.1 At the conclusion of the project, Whole Earth shall prepare a closure report which contains the following minimum information:

- Photographs of the location prior to remediation
- Photographs of the location at time of final closure
- Contaminant concentrations at the conclusion of the project
- Copies of this protocol and all testing procedures
- Independent laboratory analyses
- Shipping manifests for all materials taken to disposal
- Disposal manifests for all materials sent to commercial disposal





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Procedures

This section contains copies of the detailed sample collection and field testing procedures used on this project.



QP-06 Rev. C

WHOLE EARTH ENVIRONMENTAL QUALITY PROCEDURE

Procedure for Conducting Field TPH Analysis

Completed By:	Approved By:	Effective Date:	02/15/97

1.0 Purpose

To define the procedure to be used in conducting total percentage hydrocarbon testing in accordance with EPA Method 418.1 (modified) using the "MEGA" TPH Analyzer.

2.0 Scope

This procedure is to be used for field testing and on site remediation information.

3.0 Procedure

- 3.1 The G.A.C. "MEGA" TPH analyzer is an instrument that measures concentrations of aliphatic hydrocarbons by means of infra-red spectrometry. It is manufactured to our specifications and can accurately measure concentrations from two parts per million through 100,000 parts per million. The unit is factory calibrated however minor calibration adjustments may be made in the field. Quality Procedure 25 defines the field calibration methods to be employed.
- 3.2 Prior to taking the machine into the field, insert a 500 ppm and 5,000 ppm calibration standard into the sample port of the machine. Zero out the Range dial until the instrument records the exact standard reading.
- 3.3 Once in the field, insert a large and small cuvette filled with clean Freon 113 into the sample port of the machine. Use the range dial to zero in the reading. If the machine does not zero, do not attempt to adjust the span dial. Immediately implement Quality Procedure 25.

- 3.4 Place a 100 g. weight standard on the field scale to insure accuracy. Zero out the scale as necessary.
- 3.5 Tare a clean 100 ml. sample vial with the Teflon cap removed. Add 10 g. (+/- .01 g), of sample soil into the vial taking care to remove rocks or vegetable matter from the sample to be tested. If the sample is wet, add up to 5 g. silica gel or anhydrous sodium sulfate to the sample after weighing.
- 3.6 Dispense 10 ml. Freon 113 into the sample vial.
- 3.7 Cap the vial and shake for five minutes.
- 3.8 Carefully decant the liquid contents of the vial into a filter/desiccant cartridge and affix the cartridge cap. Recap the sample vial and set aside.
- 3.9 Insert the metal tip of the pressure syringe into the cap opening and slowly pressurize. WARNING: APPLY ONLY ENOUGH PRESSURE ON THE SYRINGE TO EFFECT FLOW THROUGH THE FILTERS. TOO MUCH PRESSURE MAY CAUSE THE CAP TO SEPARATE FROM THE BODY OF THE CARTRIDGE. Once flow is established through the cartridge direct the flow into the 5 cm. cuvette until the cuvette is full. Reverse the pressure on the syringe and remove the syringe tip from the cartridge cap. Set the cartridge aside in vertical position.
- 3.10 The cuvette has two clear and two frosted sides. Hold the cuvette by the frosted sides and carefully insert into the sample port of the machine. Read the right hand digital read-out of the instrument. If the reading is less than 1,000 ppm. the results shall be recorded in the field Soil Analysis Report. If the result is higher than 1,000 ppm, continue with the dilution procedure.

4.0 Dilution Procedure

4.1 When initial readings are greater than 1,000 ppm using the 5 cm. cuvette, pour the contents of the 5 cm. cuvette into a 1 cm. cuvette. Insert the 1. cm cuvette into the metal holder and insert into the test port of the instrument.

- 4.1 Read the left hand digital read-out of the machine. If the results are less than 10,000 ppm, record the results into the field Soil Analysis Report. If greater than 10,000 ppm, continue the dilution process. Concentrations >10,000 ppm are to be used for field screen purposes only.
- 4.2 Pour the contents of the small cuvette into a graduated glass pipette. Add 10 ml. pure Freon 113 into the pipette. Shake the contents and pour into the 1cm. cuvette. Repeat step 4.2. adding two zeros to the end of the displayed number. If the reported result is greater than 100,000 ppm. the accuracy of further readings through additional dilutions is extremely questionable. Do not use for reporting purposes.
- 4.4 Pour all sample Freon into the recycling container.

5.0 Split Samples

5.1 Each tenth test sample shall be a split sample. Decant approximately one half of the extraction solvent through a filter cartridge and insert into the instrument to obtain a concentration reading. Clean and rinse the cuvette and decant the remainder of the fluid to obtain a second concentration reading from the same sample. If the second reading varies by more than 1% from the original, it will be necessary to completely recalibrate the instrument.



WHOLE EARTH ENVIRONMENTAL QUALITY PROCEDURE

Procedure for Instrument Calibration and Quality Assurance Analysis for General Analysis "MEGA" TPH Analyzer

Completed By:	Approved By:	Effective Date:	/ /

1.0 Purpose

This procedure outlines the methods to be employed in calibrating the GAC MEGA TPH analyzer and for determining and reporting of accuracy curves.

2.0 Scope

This procedure shall be followed each day that the instrument is used.

3.0 Procedure

3.1 Turn the instrument on and allow to warm up with no cuvette in the receptacle. The instrument will take between five and ten minutes to come to equilibrium as can be determined by the concentration display readings moving a maximum of 5 ppm on the low scale. If the instrument continues to display erratic readings greater than 5 ppm, remove the cover and check both the mirrors and chopper to insure cleanliness.

3.2 All TPH standards shall be purchased form Environmental Resources Corporation and as a condition of their manufacture subject to independent certification by third party laboratories. Each standard is received with a calibration certificate.

3.3 Insert the low range (100 ppm) calibration standard into the receiving port and note the result on the right hand digital display. If the displayed reading is less than 98 ppm or greater than 102 ppm, remove the circuit board cover panel and zero out the instrument in accordance with QP-26. 3.4 Repeat the process with the mid range (500 ppm) calibration standard. If the displayed reading is less than 490 ppm or greater than 510 ppm zero out the span as described in QP-26.

3.5 Repeat the process again with the 1,000 and 5,000 ppm calibration standards.

3.6 Pour clean Freon 113 into a filter cartridge and extract into 10 ml cuvette. Insert the cuvette into the receiving port and zero out the instrument reading using the far right adjustment knob on the instrument. Repeat using the 1 ml cuvette and the left hand zero dial.

4.0 Determining & Reporting Instrument Accuracy

4.1 After making the fine adjustment with the zero dials reinsert each calibration standard into the instrument and note the concentration values. *If* <u>any</u> concentration value exceeds 2% of the standard set point, repeat all steps in section 3.0 of this Procedure. Note the actual concentration values displayed by the instrument after each calibration standard.

4.2 The four calibration standards shall be used in reporting span deviation as follows:

	Standards Range		
100 ppm	500 ppm	1,000 ppm	5,000 ррт
0-250 ppm	251-750 ppm	751-2,500 ppm	2,501-10,000 ppm

4.3 Divide the actual instrument reading value of each calibration sample by the concentration shown on the standard (e.g., 501 ppm instrument reading / 500 ppm standard = 1.002%). These readings shall be reported for each test performed.

5.0 Re-calibration

5.1 If any sample exceeds the concentration of 1,000 ppm on the 10 ml cuvette or 10,000 ppm on the 1 ml cuvette, the cuvette must be thoroughly rinsed with clean Freon and the instrument re-zeroed in accordance with 3.6 of this procedure.



QP-77

WHOLE EARTH ENVIRONMENTAL QUALITY PROCEDURE

Procedure for Obtaining Soil Samples for Transportation to a Laboratory

Completed By:	Approved By:	Effective Date:	/	/	•

1.0 Purpose

This procedure outlines the methods to be employed when obtaining soil samples to be taken to a laboratory for analysis.

2.0 Scope

This procedure is to be used when collecting soil samples intended for ultimate transfer to a testing laboratory.

3.0 Preliminary

- 3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the soil. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.
- 3.2 If collecting TPH, BTEX, RCRA 8 metals, cation / anions or O&G, the sample jar may be a clear 4 oz. container with Teflon lid. If collecting PAH's, use an amber 4 oz. container with Teflon lid.

4.0 Chain of Custody

- 4.1 Prepare a Sample Plan. The plan will list the number, location and designation of each planned sample and the individual tests to be performed on the sample. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.
- 4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.

4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

5.0 Sampling Procedure

- 5.1 Go to the sampling point with the sample container. If not analyzing for ions or metals, use a trowel to obtain the soil. Do not touch the soil with your bare hands. Use new latex gloves with each sample to help minimize any cross-contamination.
- 5.2 Pack the soil tightly into the container leaving the top slightly domed. Screw the lid down tightly. Enter the time of collection onto the sample collection jar label.
- 5.3 Place the sample directly on ice for transport to the laboratory.
- 5.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

6.0 Documentation

6.1 The testing laboratory shall provide the following minimum information:

- A. Client, Project and sample name.
- B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
- C. Results of the requested analyses
- D. Test Methods employed
- E. Quality Control methods and results



Laboratory Analytical

This section contains copies of the chain of custody and analytical results of testing for this project.



"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL ATTN: MR. MIKE GRIFFIN 19606 SAN GABRIEL HOUSTON, TEXAS 77084 FAX: 1-281-646-8996

SampleType: Soil Sample Condition: Intact/ loed Project #: None Given Project Name: L-21 Project Location: Eunice, N.M. Sampling Date: 03/01/00 Receiving Date: 03/02/00 Analysis Date: 3/02 & 3/03/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
23908	B	<0.100	<0.100	<0.100	<0.100	<0.100
23909	N	<0.100	<0.100	<0.100	<0.100	<0.100
23910	Ε	<0.100	<0.100	<0.100	<0.100	<0.100
23911	S	<0.100	<0.100	<0.100	<0.100	<0.100
23912	W	<0.100	<0.100	<0.100	<0.100	<0.100
23913	PB	<0.100	0.152	0.157	0.374	0.145
23914	PN	<0.100	<0.100	<0.100	<0.100	<0.100
23915	PS	<0.100	<0.100	<0.100	<0.100	<0.100
23916	PE	<0.100	<0.100	<0.100	<0.100	<0.100
23917	PW	<0.100	<0.100	<0.100	<0.100	<0.100
%	A	101	97	96	98	95
%	EA	94	91	89	90	90
BL	ANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B,5030

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Raland K. Tuttle

Date



"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL ATTN: MR. MIKE GRIFFIN 19606 SAN GABRIEL HOUSTON, TEXAS 77084 FAX: 1-281-646-8996

Sample Type: Soil Sample Condition: Intact/loed Project #: None Given Project Name: L-21 Project Location: Eunice NM

Sampling Date: 03/01/00 Receiving Date: 03/02/00 Analysis Date: 3/02 & 3/03/00

•	Location: Eunice, NM	GRO	DRO
		C6-C10	>C10-C28
ELT#	FIELD CODE	mg/kg	mg/kg
23908	в	<10	<10
23909	N	<10	<10
23910	E	<10	<10
23911	S	<10	<10
23912	W	<10	<10
23913	PB	<10	<10
23914	PN	<10	<10
23915	PS	<10	<10
23916	PE	<10	<10
23917	PW	<10	<10

% IA	107	89
%EA	103	88
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Raland K. Tuttle

3-3-00

Date



"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL ATTN: MR. MIKE GRIFFIN 19606 SAN GABRIEL HOUSTON, TEXAS 77084 FAX: 1-281-646-8996

Sample Type: Soil Sample Condition: Intact/loed Project #: None Given Project Name: L-21 Project Location: Eunice, N.M. Sampling Date: 03/01/00 Receiving Date: 03/02/00 Analysis Date: 03/03/00

		Chloride
ELT#	FIELD CODE	mg/kg
23908	в	35
23913	PB	230
20310		200

5140

5000

103

<10



Methods: EPA SW 846-9052

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3-3-00

Date

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Environmental Lab of 🎝 , Inc.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL ATTN: MR. MIKE GRIFFIN 19606 SAN GABRIEL HOUSTON, TEXAS 77084 FAX: 1-281-646-8996

SampleType: Soil Sample Condition: Intact/ Iced Project #: None Given Project Name: L-21 Battery Project Location: Eunice, N.M. Sampling Date: See Below Receiving Date: 03/06/00 Analysis Date: 03/06/00

ELT#	FIELD CODE/SAMPLE DATE	BENZENE mg/kg		ETHYLBENZENE mg/kg	m.p-XYLENE mg/kg	o-XYLENE mg/kg
24002	P-1 03/02/00	<0.100	<0.100	<0.100	0.109	<0.100
24003	P-2 03/02/00	<0.100	<0.100	<0.100	0.214	<0 100
24004	T-1 03/02/00	<0.100	<0,100	<0.100	<0.100	<0.100
24005	T-2 03/03/00	<0.100	<0.100	<0.100	0.213	<0.100
24006	T-3 03/03/00	<0.100	<0.100	<0.100	0.362	0.211
24007	P-L3 03/04/00	<0.100	<0.100	<0.100	0.417	0.195
24008	P-L4 03/04/00	<0.100	<0.100	<0.100	0.507	<0.100

% IA	103	100	98	100	97
% EA	115	101	96	114	98
BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B.5030

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Raland K. Tuttle

3-10-00 Date

Mar 10 00 02:16p

ENVIRONMENTAL Lab of \checkmark , Inc.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL ATTN: MR. MIKE GRIFFIN 19606 SAN GABRIEL HOUSTON, TEXAS 77084 FAX: 1-281-646-8996

Sample Type: Soil Sample Condition: Intact/Iced Project #: None Given Project Name: L-21 Battery Project Location: Eunice, NM

Sampling Date: See Below Receiving Date: 03/06/00 Analysis Date: 03/06/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	Sample Date	
24002	P-1	41	861	03/02/00	
24003	P-2	36	1064	03/02/00	
24004	T-1	<10	512	03/02/00	
24005	Т-2	<10	264	03/03/00	
24006	T-3	12	246	03/03/00	
24007	P-L3	16	280	03/04/00	
24008	P-L4	13	93	03/04/00	

% IA	107	116
%EA	115	39
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

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3-10-00 Date

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Disposal Manifests

This section contains copies of the disposal manifests for the soil sent to Sundance Services.

LEASE OPERATOR/SHI	(191) 204-2511 IPPER/COMPANY: R.C.C.	<u>№ 26416</u>
li	21	
TRANSPORTER COMPA		TIME: AM/PM
DATE: 2-29-00		VER NO.;
CHARGE TO: Rice		
	TYPE OF MATERIAL	
1] Production Water) Completion Fluide
[] Tank Bottome	() Contaminated soli [] C-117 No.:
Description: Dild	uct-	E 🙀
	·	
VOLUME OF MATERIAL	[] BBLS: [] YARD	12: 11
	ANCE SERVICES, INC.'S ACCEPTANCE OF THE M	
JOB TICKET, OPERATOR/SHIP	PPER REPRESENTS AND WARRANTS THAT THE W	ASTE MATERIAL SHIPPED
AMENDED FROM TIME TO T	EMPT PROM THE RESOURCE, CONSERVATION AN IME, 40 U.S.C. \$ 6901, st 200, THE NM HEALTH AI	ND SAF, CODE \$ 361.001, of req.
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	Lnc. ²⁰ Nº 26419			TIME: AN/PM	DRIVER NO .:] Completion Pluids [] C-117 No.:		NRD 22 : 11	THE MATERIALS SHIPPED WITH THE FIRE WATERIALS SHIPPED WITH THE WASTE MATERIAL SHIPPED TON AND RECYCERY ART OF 1976, AS WITH AND SAP, CODE 1 S4, DOL, a set ION AFFOLDED DIGILING, COLON, AFFOLDED DIGILING, TOWATTON, DEVELOPMENT OR BIOT	ce of the materials stupped with Omly the materials stupped by Positien to surdiage services, inc.'s	THIS WILL CERTIFY has the above Transporter loaded the material represented by this Transporter Statemant at the above described location, and that it was tendened by the above described shipper. This will certify that ny additional deteriabil were added to this load. Bud that the material was delivered willow inside a functional deteriability were added to this load. Bud that the material was delivered withou inside a functional deteriability and added to this load. Bud that the material was delivered converse. The material section of the load of the load of the function of the material was delivered.	Burro
	Sundance Services, It P.O. Bay 1737 + Earling, NH #1231 (2005) 394-2511	HPPERICOMPANY: R.C.	<i>د - کا</i>	ANY: GUALTON	VEHICLE		TYPE OF MATERIAL	[] Ohising Flades]] Contandinated col]] State W. Canthant:		L [] 88LS	AS A CONDITION TO SUNDANCE SERVICES, INC. 3 ACCENTANCE OF THE MATEBUALS SHUPPED WITH THUS TOO TOCKET, OFEAATON SEUTOR SERVICES, INC. 3 ACCENTANCE OF THE MATEBUALS SHUPPED WITH THUS HEREWITH IS MATEBUAL EXEMPT FROM THE REPORTING AND VALANTS THAT THIS WASTE MATEBUAL SEUTED ARENDED FROM THEE TO THRE, 40 U.S.C. 5 6001, 6 mg. THE NM HEALTH AND REPORTED MATE OF 1976, AS ARENDED FROM THEE TO THRE, 40 U.S.C. 5 6001, 6 mg. THE NM HEALTH AND REPORTED MATE OF 1976, AS ARENDED FROM THEE TO THRE, 40 U.S.C. 5 6001, 6 mg. THE NM HEALTH AND SLOVED DALLING FLUIDG ARENDED FROM THEE TO THRE, 40 U.S.C. 5 6001, 6 mg. THE NM HEALTH AND SLOVEDED DALLING FLUIDG ARENDED ANTERS, AND OTHER 40 U.S.C. 5 6001, 6 mg. THE NM HEALTH AND SLOVEDED DALLING FLUIDG ARENDED ANTERS, AND OTHER 40 U.S.C. 5 6001, 6 mg. THE NM HEALTH AND SLOVEDED DALLING FLUIDG ARENDED ANTERS, AND OTHER 40 U.S.C. 5 6001, 8 mg. THE MM HEALTH AND SLOVEDED DALLING FLUIDG ARENDED ANTERS, AND OTHER 40 U.S.C. 5 6001, 8 mg. THE MM HEALTH AND SLOVEDED DALLING FLUIDG ARENDEDUCTON OF CRUDE OF OR NATURAL DAS OR GEOTRERMAL ENERGY.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC. IS ACCEPTANCE OF THE MATERIALS STUPPED WITH THIS AOB TICKET, TAANSTORTER METHERSISMYS AND WAREAUTS THAT OMLY THE MATERIAL DELIVERED BY OFELATORSHIPPER TO SUNDANCE SERVICES, INC. IS FACTLITY FOR DUSINGTER IS NOW DELIVERED BY THANSTORTER TO SUNDANCE SERVICES, INC. IS FACTLITY FOR DUSING SERVICES, INC. IS	THIS WILL CERTEY has the above Transporter loaded the material represented by his Transporter meanum at the above described location, and that it was tendered by the above described shipper. The till centify that ny additional polericity were added to this load. That that the material was defivered show insigned that the material was added to this load. That the material was defivered inverse. Here, the material was added to this load. That the material was defivered inverse. Here, the material was added to this load. The that the material was defivered inverse. Here, the material was added to this load. The the material was defivered inverse. Here, the material was added to the load. The the material was defivered inverse. The material was added to the load of the load of the material was defivered inverse. The material was added to the load of the material was defivered inverse. The material was added to the load of the material was defivered inverse. The material was added to the load of the material was defivered inverse. The material was added to the load of the material was defivered inverse. The material was added to the material was defivered inverse. The material was added to the material was added to the material was defivered the material was added to the material was add	ANSENTATIVE
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	Inc. ²¹¹ Nº 26417			TIME: AN/PM	DRIVER NO.:	~]) Camplestan Fluids {] C-117 No.:		RD_/2_: []	THE MATEMALS STUPED WITH THIS THE WASTE MATERLUL SHEPPED ON AND RECOVERY ACT OF 1976, AS J'TH AND SAF, CODE 1 341 ON, 44 449- J. MAPPOROED DIRILING FLUTIS, LIBMATION, DEVELOPMENT OR MOY.	E OF THE MATERIALS SHPPED WITH DRIV THE MATERIAL DELVERED BY ORTER TO SUNDANCE SERVICES, INC. 'S	rial represented by this Transporter by the above described shipper. This ad that the material was delivered	
	Sundance Services, Ir P.O. Ban (27) + Lander, NM 00231 (200) 544-5313	PPER/COMPANY: Rice	/	TRANSPORTER COMPANY: W///o/	VEHICLE NO.: #430		TYPE OF MATERIAL	[] Briting Puids [] Containibulad coll [] Bibay Containit		UNARY :	As a condition to similance erances, then a accertance of the material supped with this 300 theat, operator/minter advances inc. a accertance of the material supped treatingth is material definit and the resource, conservation and recovery act of 30%, As Manded from their to thus, a further and the NM Hellith AND safe code 1 million and regulations related therety, by vience of the NM Hellith AND safe code 1 million produced warter and threaten, by vience of the structmantion, developed definition from the anticest warter associated with the developed definition production of crude of or maturial days of geotremant energy.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICLET, TRANSPORTER REMESSIONS AND WARRANDS THAT ONLY THE MATERIAL DELIVERED ST OPENATORISHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC. 'S FACULTY FOR DISPOSAL.		HALLIT REPRESENTATING:
		LEASE OPERATOR/SHIPPER/COMPANY:	LEASE NAME: Z-2	IRANSPORTER COMPAU	DATE: 2 - 2 9-00 VEHICLE NO .:	CHARGE TO: 2, C C		Production Wree Tent. Britoma Other Matartat: Other Matartat: Description:		VOLUME OF MATERIAL [] BULS.	ALS A CONTETION TO SUMA OB TACART, OFELATON 2018 MARINDED FROM THARLAL EXES MARINDED FROM THAR TO THA MARINDED FROM THAR TO THA MARINDED FROM THAR TO THA MARINDED FROM THAR AND OTH MARINDER OF CRUIDE OLL C	ALSO AS A CONDITION TO S THIS IOB FACILET, TRANSPORT OPEIATORUSHOPER TO TRAN PACILITY FOR DISPOSAL.	THIS WILL CERTIFY that Statement at the above descri- will certify that no additione without incident. MULTIN CONVENT. SCONATURE	PACELTY REPRESENTATION: Phile Surface. Carry Surface Acrif Present 12/19

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Curdonas Camilans T.	P.O. Des 137 + Earles, NM 4221 P.O. Des 137 + Earles, NM 4221 (206) 34-1511	DERICONPANY: R.C.D		Y: Walter!	VEHICLE NO.: 230		TYPE OF MATERIAL	[] Drilling Fluids [] Comparished coll [] BSAW Commun:		1 BBLS. : LATARD	As a condition to sundance services, inc. 1 accentance of the materials served with this control of according termination and warmant the waterial served with this determines material externing termination and warmant the waterial surved mederation from the to the action the mediured. Conservation and recovery act of <i>Brs</i> , as and recourding to the action theory of any, the number in and second parts of the surved moduced waters, and other action theory. In the last that and second parts of moduced waters, and other water associated with the last and parts of production of caude on or matural and on above and an early and moduction of caude on or matural and on above and a ball and and moduction of caude on or matural and on above and a balled at the meduction of caude on or watural and on above and an early and and and and and and an and and an an area and and and and and and and and and and and and an and and a	also as a condition to sundance seavices, inc.'s acceptance of the materials shipped with This 109 tecket, thansporter represents and wardants that only the material delayered by Operator.Souper to transporter is now delivered by transporter to sundance services, inc.'s Faculity for desport.	THS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Mateman at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was defivered without incident.	BURGE IL
•	, ,	LEASE OPERATOR/SHIPPER/COMPANY:	LEASE NAME: 2-21	TRANSPORTER COMPANY:	DATE: 2 - 29-00 VEHICLE NO.	11 12		[] Production Wetae [] Task Bettaena [] Oner Maniata		VOLUME OF NATERIAL [] BBLS	AS A CONDITION TO SUNDAX AS A CONDITION TO SUNDAX SOB THOLSET, OPEDATOR/SSUTPE ANENDED FILON TIME TO THE ANENDED FILON TIME TO THE AND REDULATIONS RELATED T PRODUCED WATERS, AND OTHE PRODUCTION OF CRUDE OIL OR	ALSO AS A CONDITION TO JUI THIS JOB TICKET, TAANSDORTEI OFERATORISSUPPER TO TIANSP FACULTY FOR DISPOSAL.	THIS WILL CERTIFY has the Statement of the above describ will certify that no additional I without incident.	DRIVER BANKTORE
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	Nº 2			TIME:	DRIVER NO.:			[] Campletion Fiulda [] C-117 No.:	,	<u>ل</u> ا	TERALS SHIPPED WITH ' STE MATERIAL SHOPED RECOVERY ACT OF 1974 RECOVER 4 34, 001, a RDED DALLING RUINS RUED DALLING RUINS N, DEVELOPMENT OR	e materials shepe Re material delive No sundance servi	provented by this Tra above described shi the material was del	
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Sundance Services.	P.O. But 1257 + Emilia, NM 8521	LEASE OPERATOR/SHIPPER/COMPANY: $R_{ m c}$		TRANSPORTER COMPANY: UNITAN	DATE: 2.39-00 VEHICLE NO.: 509		TYPE OF MATERIAL	 Divideg Fluids Continuinate ed BS&W, Content: 		VOLUME OF MATERIAL [] BBLS.	AS A CONDITION TO SUNDAWES SERVICES, DAC: S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THES DIE THOLET, OPERATORISADER REPRESENTS AND WARRANCE OF THE WATERIAL SHIPPED WITH THE MERENTIM IS MATERIAL DECART READ THE REQUIRE, CONSERVATION AND RECOVERY ACT OF 1974, AS MERENZIM IS MATERIAL DECART READ THE REQUIRE, CONSERVATION AND SAF CODE # 36, 001, 54 44 AND REGULATIONS RELATED THREETO, BY VIRTURE OF THE RECOLORATION AFFORDED DIALLING RUTING, PRODUCED WATERS, AND OTHER WATE ASSOCIATED WITH THE EXCLORATION, DEVELOPMENT OR PRODUCED WATERS, AND OTHER WATE ASSOCIATED WITH THE EXCLORATION, DEVELOPMENT OR PRODUCED WATERS, AND OTHER WATE ASSOCIATED WITH THE EXCLORATION.	ALSO AS A CONDITION TO SUMDANCE SERVICES, INC. IS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS NO TACKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED SY OFFRATION/SOFFRE TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUMDANCE SERVICES, INC FACTLITY FOR DISPOSAL	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Sauement at the above described shipper. This is will certify that no additional materials were added to this loads and that the material was delivered without incident.	PANER REMEMBER 6 OF ALES
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SUNDANCE SERVICES INC FAX NO. 50539

Sundance Services, Inc. P.O. Box 1737 + Rauder, NK 82131 Nº 26423	LEASE OPERATOR/SHIPPER/COMPANY:	HI TRANSPORTER COMPANY: 4/0/42	DATES 29 DO VEHICLE NO. 439 DAN	CHARGE TO: R.L.	TYPE OF MATERIAL	1 Production Weter 1 Outling Plats 1 0 1 1 Tank Bothoma 1 0 1 0 1 1 1 1 0 1 1 1 1 1 1 0 1 1 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 0 0	VOLUME OF MATERNAL [] BOLS. : 1] YARD 2 : [].	AS A CONDITION TO SUMDANCE SERVICES, DKC.'S ACCEPTANCE OF THE MATBALALS SERVED WITH THCS NOB TECKET, OPERATOR/SERVER REPRESENTS AND WARLANTS THAT THE WATE MATBALAL SUPPED WITH THCS NEEDENTTH IS MATBALL EXEMPT FROM THE REBOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS ANDRODE FROM THAC TO TODS, 40 U.S.C. 4 4001, THE MA HEALTH AND SAC CODE & JALLIOL AS AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE BERMITHON APPORTED DRULDSG FLUIDS, AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE BERMITHON APPORTED DRULDSG FLUIDS, PRODUCED WATERS, AND OTHER MATER ASCOLATED WITH THE EXPLORATION, DEVELOPMENT OF PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL BINENCY.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SERPED WITH THES FOR THOLET, TRANSPORTER REPRESENTS AND WARANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATORUSSIONER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, DEC.'S FACILITY FOR DISPOSAL.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter. Salences at the above described location, and that it was tradered by the above described Mipper. This with certify that no additional materials were added to this load, and that the material was delivered without incident.	FACULTY REPRESENTATIVE SCOULTURE MAL	When distant further derived the foreign of the content of the con
- Sundance Services, Inc. P.O. Bur 137 + Laury, NM 1021 Nº 26422	roris.	TEASE NAME: L. J. J. TRANSPORTER COMPANY: 1/2 H.	CLENO.: ALT PRIVER NO.:	CHARGE TO: LONGLAN RICO	TYPE OF MATERIAL	[] Production With [] Diffing Puts [] Comparison Ruids [] The Boltome [] Commission soil [] Comparison Ruids [] Other Manual [] BS&W Connect [] C117 Hoi: [] Other Manual [] BS&W Connect [] C117 Hoi: Description: [] Sign Connect [] Cumparison	VOLUNE OF MATERAL [] BULS: [] YARD 22_: []	AS A CONDITION TO SUNDANCE SERVICES, INC. 15 ACCETANCE OF THE MATERIALS SHIPED WITH THGS JOE TICKET, OPEDATOR/SERVER JETHERESKYTS JATO WARKANTS THAT THE WASTE MATERIAL SHIPED WITH THGS HEURITH IS MATERIAL EXEMPTE THEME RESOURCE, CONVERTATION AND RECOVERY ACT OF 1976, AS ANENDED FROM THE TO THRE, AU USC. 5 8601, 4 May, THE NM BAR, CODE 18 MA JOIL, 4 MA ANENDED FROM THRE TO THRE, AU USC. 5 8601, 4 May, THE STANTION AND RECOVERY ACT OF 1976, AS AND REGULATIONS RELATED THREATO, BY VIETUE OF THE EXEMPTION AFPORDED DIRALING FLUDS, MODUCED WATERS, AND OTHER WASTE SACCATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OU OR NATURAL DAS ON GEOTHERMAL ENERGY.	ALSO AS A CONDITION TO SUNDANCE SERVICES, DK: 'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB JICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT OALY THE MATERIAL DELIVERED BY OFFIA.TORUSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC. 'S FACILITY FOR DEFOCAL.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Summers at the above described incration, and that it was undered by the above described shipper. This will certify that no additional match ats were added to this load, and that the material was delivered without TREAmy on value of the transformer added to this load, and that the material was delivered perved the transformer of the transformer added to this load, and that the material was delivered on the transformer of the transformer added to the material was delivered to the transformer additional to the transformer additional transformer additional material was delivered to the transformer additional to the transformer additional transformer additional to the transformer additity additional to	FACULTY REPRESENTATIVE BOMANUES BOMANUES BOMANUES	bin testene Caract Sustant Acarl Pick Surfaces Acarl Cash Pressore

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AR-14-(DO TUE	10:	15			SUNE		E SERVICES	: IN		Fax No.	505394		Р.
	Nº 26425			TIME: AM/PM	draver no.:			Centretten Ruide Cett7 No.:		<u> </u>	A TERUALS STORED WITH TAR ANTE MATSUAL STORE OF 1976, A ND RECOVERY ACT OF 1976, A - MP SAF CODE \$ \$6,001, 4 mg. PORDED SULLING FLUTTA TON, DRVELOPMENT OR	The materials suppose with the material deliveres inc.'s is to suppare services. Inc.'s	represented by this Transporter he above described sligger. This is the meanted was definition	
	Sundance Services, Inc. P.O. ber 129 + Easter, NH 8221 (288) 34-281	ericompany: R'c e		: Walter	VEHICLE NO.: #477- DR		TYPE OF MATERIAL	(Drifting Fluids [] Cantantiandod aol [] BLAW Curnant:] BBLS	AS A CONDITION TO SUNDANCE SERVICES, DRC:S ACCEPTANCE OF THE MATERIALS SHEPED WITH THES NOT TOCKT, OPERATOR/MEDPER REMOLESE, DRC:S ACCEPTANCE OF THE WATER MATERIAL SHEPED HERENTTH IS MATERIAL EXEMPT FROM THE REMOURCE, CONSERVATION AND SECONERY ACT OF 1974, AS AND REMOLE FOR THATE TO THAL AN U.S.C. I AND I. M	also as a condition to subdance services, inc. 3 accentance of the materiale sedfed with This job tocket, transporter represents and yarbants that only the material delivered by Operator/subject to transporter is now delavered by transporter to sundance services, dag. Factury for disposal.	THIS WILL CERTIFY has the above Transporter loaded the melecial represented by this Transporter atoment at the above described location, and that it was tendened by the above described shipper. The ill certify that no additional heatigois were added to this load, and that the material was definition inhow incident was defined by the material was definited. The inhow incident was defined by the material was definited. The inhom incident was defined by the material was definited.	Contract and
		LEASE OPERATOR/SHIPPER/COMPANY:	LEASE NAME: Z - Z ,	TRANSPORTER COMPANY:	DATE2-29-00 V	CHARGE TO: A.C.C		[] Production Welsr [] Trank Bertionna [] Other Macantal: Deventigiber: 01 [d. f.		VOLUME OF MATERIAL ()	AS A CONDITION TO SUNDANC JOB THOLET, OPEIATTON/BUTPER, INSTRUTT IS MATTAILAL, EXEMOT AMENDED FROM THAE TO THE, AND REGULATIONS BELATTED THE AND REGULATIONS BELATTED THE PRODUCTION OF CRUDE OIL OR 1	ALSO AS A CONDITION TO SUN THIS JOB TOXET, TRANSFORTER OPERATION/SUPPER TO TRANSFO FACTLITY FOR DISPORAL	THIS WILL CERTIFY has the Sutement at the above described will certify that no additional has without incident convert.	FACHUTY REPRESENTATIVE ACCURATE Phile Service Curry Service Accur, Revised
	Nº 26424			TIME: 9 ' 45 TAN PH	DRIVER NO.:	, , , , , , , , , , , , , , , , , , ,		(Campistion Puids C117 No.:		<u>2-: 11</u>	MATERIALS SULTRED WITH THIS WASTE MATERIAL SULTRED WID RECOVERY ACT OF 1976, AS AND RAC, CODE A MI, ONI & AN AND RAL CODE A MILLING A FIPORDED PERLUNG A	F THE MATERIALS SHIPPED WITH Y THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC. 3	represented by this Transporter the above described shipper. This hal the material way delivered	
	Sundance Services, Inc. ro. bas 1737 + Busine, NM MEDI (386) 394-2511	ERICOMPANY: RED		" Malter	LE NO.:. 723 O		TYPE OF MATERIAL	1 Denting Proce) BUCS	AS A CONDITION TO SUNDANCE SERVICES, INC. 5 ACCEPTANCE OF THE MATERIALS SUPPED WITH LOB TICKET, OPERATORSHOPER REPARSIENTS AND WARAANTS THAT THE WASTE MATERIAL SUPPE HEREBATTH IS MATERIAL EXEMPT PROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF IS AND REDUCTIONS RELATED THEORY. BY USING A, THE MATERIAL SUDDE AND REDULATIONS RELATED THEORY. BY USING A, THE MATERIAL SUDDE PRODUCED WATERS, AND OTHER WATE ASSOCIATED WITH THE EXEMPTION. DEVELOPMENT OR PRODUCED WATERS, AND OTHER WATE ASSOCIATED RITH THE EXEMPTION. DEVELOPMENT OR PRODUCED WATERS, AND OTHER WATE ASSOCIATED RITH THE EXEMPTION. DEVELOPMENT OR PRODUCED VATERS, AND OTHER WATE ASSOCIATED RITH THE EXEMPTION.	ALBO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS THES JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL, OPERATOR/SHIPPER TO THANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE FACILITY FOR DISPOSAL.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. The will certify that no additional materialis were added to this load, and that the material way delivered without incident. According to this load, and that the material way delivered ontrops. Accord.	WE. 3 CALE MANNE
	•	EASE OPERATOR/SHIPPER/COMPANY:	EASE NAME: 2 , 2 /	TRANSPORTER COMPANY: M	DATES - 29-00	CHARGE TO: Die		1) Production Wear 1) Turk Benome 1) Other Mathem Descryption:	5	VOLUME OF MATERIAL [] BULS.	AS A CONDITION TO SUNDAN CONTINET, OPERATOR SHOPPEI HEREWITH IS MATTELLAL EXEMP MICHAED FROM THELTO TO C. UND REDULATIONS RELATED TO MODIUCED WATERS, AND OTHE MODIUCTION OF CRUDE OIL OR	ALSO AS A CONDITION TO SUN THIS JOB TICKET, TRANSPORTER OPERATOR/SHIPPER TO TLANSIM FACILITY POR DISPOSAL	THIS WILL CERTIFY that the Statement of the above describs will certify that no cadditional is withous incident oneves:	FACULTY REPRESENTATIVE: A

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IC.	P.O. Box 1737 & KURKY, NM 44231 N2 26430	LEASE OPERATOR/SHIPPER/COMPANY: $\mathcal{R}_{c\mathcal{L}}$	LEASE NAME: Z - Z /	TRANSPORTER COMPANY: 1/a///a/	DATE: 2-29-00 VEHICLE NO.: モイスプ DRIVER NO.:	charge to: $\mathcal{R}_{c\mathcal{L}}$	TYPE OF MATERIAL	[] Production Writer [] [] Drifting Fluids []] Campitrion Fluids [] Test Bottome [] [] ContartAneod soil [] [] Crit7 No.: [] Other Manuale: [] BB4.W Containt: [] Crit7 No.: [] Description: [] [] [] [] [] Crit2 No.:		VOLUME OF MATERIAL [] BBLS. : 171 ARD 12 : []	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATEBUALS SALITED WITH THIS LOB TICKET, OFBATTOR/SALITE SERVICES, INC.'S ACCEPTANCE OF THE WATE MATEBUALS SALITED WITH THIS HEREWITH IS MATEBUAL EXEMPT FROM THE RESOLACE, CONSERVATION AND RECOVERY ACT OF 1976, AS HEREWIDED FROM THE TO THALE OU LS. C. 6601, 4 mg., THE MALTHI AND SAC CODE 5 361,001, 4 mg., AND REQUILATIONS RELATED THEREFO. BY VITTUE OF THE EXEMPTION AFFORDED DEVLIAND FJUIDS, PRODUCED WATERS, AND OTHER WATE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCED WATERS, AND OTHER WATE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	ALSO AS A COMDITION TO SUNDANCE SPENCES, INC. IS ACCENTANCE OF THE MATERIALS SHIPPED WITH THES 108 THORET. TRANSPORTER REPRESENTS AND WARRANTS THAT OMLY THE MATERIAL DELIVERED BY OVERATORIZATIPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC. IS PACILITY FOR DIMOGAL.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement as the above described longtion, and that is was lendered by the above described shipper. This will config that ma additional marefuls wag added to this load, and that the material was delivered without invision that marefuls wag added to this load, and that the material was delivered material material marefuls. The load, and that the material was delivered material material marefuls. The load	Markaterine Completioneen Artifi Methodonee Actefit Ondustrumperee Review 12/21/16

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Clay Density

This section contains copies of the proctor and laboratory test report for the clay liners constructed at the bottom of the excavated areas.

FROM



LABORATORY TEST REPORT **PETTIGREW and ASSOCIATES** 1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827

ETTIGREW AND ASSOC. 505 393+154

DEBRA P. HICKS, P.E.I.L.S.I. WILLIAM M. HICKS, III, P.E./P.S.

το:	Rice Engineering Corporation Attn: Scott Curtis 122 W. Taylor Hobbs, NM 88240	MATERIAL: Re	d Clay
PROJECT:	Lease # L21	TEST METHOD:	ASTM 2922
DATE OF TE	ST: March 2, 2000	DEPTH: See	Below

TEST NO.	LOCATION	DRY DENSITY % Maximum	% MOISTURE	DEPTH
SG-1	Sludge Pit 10' E. of SW Corner of Pit	100.5	19.9	10' Below Finished Subgrade
SG-2	Sludge Pit 30' E. and 50' N. of SW Corner of Pit	104.0	17.9	8' Below Finished Subgrade
SG-3	Sludge Pit - 70' N. and 60' E. of SW Corner of Pit	100.8	18.7	8' Below Finished Subgrade

Moisture Density Information Provided by Others.

CONTROL DENSITY:	98.9 ASTM [

Rice

D 698

REQUIRED COMPACTION: 95%

LAB NO .: 0H 608-612

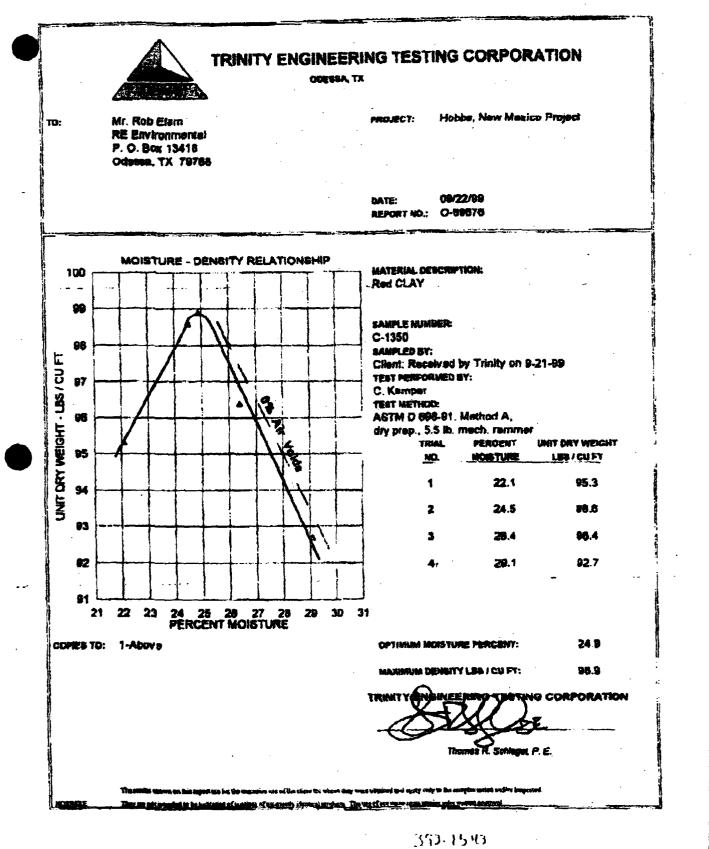
COPIES TO:

OPTIMUM MOISTURE: 24.9%

PETTIGREW and ASSOCIATES

Branquest

3-13-200 2:11PM FROMULTTIGREW AND ASSOC. 505 393+154



P. 2

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. Z 577 009 531

February 23, 2000



Mr. Wayne Price NM Energy, Minerals, and Natural Resources Dept. Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

RE: REDWOOD TANK AND EMERGENCY OVERFLOW PIT (Permit No. H-73) CLOSURE PLAN FOR EME SWD FACILITY L-21 Unit Letter L, Sec. 21, T21S, R36E Lea County, NM

Mr. Price:

Rice Operating Company requests closure plan approval for the emergency overflow pit, Pit Permit # H-73 and the below-grade redwood tanks at the Eunice-Monument-Eumont (EME) Salt Water Disposal Site SWD Well L-21, located in Unit L, Sec. 21, T21S, R36E, Lea County, NM.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The EME System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Closure projects require System Partner AFE approval and work begins as funds are received.

The Closure Project AFE for the SWD L-21 Facility has been approved by the System Partners and work was started in January 2000.

The L-21 facility is included in the Rice Operating Company (ROC) generic closure plan for emergency pits and below-grade redwood tanks and is the third facility to apply under the generic plan. Rather than repair the below-grade redwood tanks, the EME SWD System will replace them with aboveground fiberglass tanks (including an emergency overflow tank) set within secondary containment (poly-liner). The emergency overflow pit will be closed. ROC expects to simultaneously close the pit and tanks pursuant to NMOCD guidelines and the ROC generic plan (awaiting February 23, 2000 revision approval). The enclosed C-103 form addresses this intention and defines the site-specific assessment for OCD guidelines. Supporting documentation is also enclosed.

EME SWD L-21 Rdwd Tk; Pit Closure Plan February 23, 2000 Page 2 of 2



This facility is currently operating with a temporary tank system and the below-grade redwood tanks have been dismantled and removed. The tank materials have been properly disposed and will be included in the manifests of the Final Closure Report.

ROC will schedule all major events with a 48-hour advance notice to the NMOCD. Ms. Donna Williams has visited this site and Whole Earth Environmental will be the on-site manager of the excavation project. The Final Closure Report will follow at the end of the project.

Thank you for your consideration of this closure plan request.

RICE OPERATING COMPANY

Curoly Dran Haynes

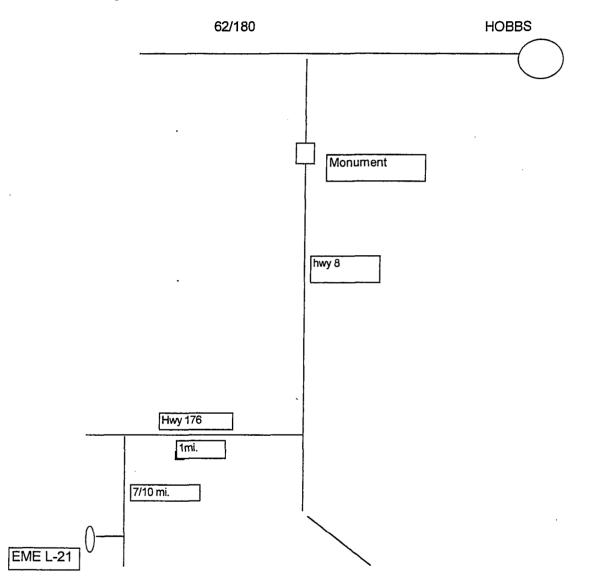
Carolyn Doran Haynes Operations Engineer

Enclosures Cc: KH, file, Ms. Donna Williams, NMOCD, District I Office 1625 N. French Drive Hobbs, NM 88240

Submit 3 CopiesState of New MexicoTo AppropriateEnergy, Minerals and Natural Resources DepDistrict OfficeEnergy, Minerals and Natural Resources Dep	Form C-103 partment Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVI	SION WELL API NO.
2040 South Pacheco Santa Fe, NM 87505	30-025-21852
DISTRICT II 811 South First, Artesia NM 88210	5. Indicate Type of Lease STATE FEE □
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	6. State Oil & Gas Lease No.
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BA DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR PROPOSALS	
1. Type of Well: Oil Well Other Emerge Oil Well Gas Well Other Emerge Below-grade Red Below-grade Red	
2. Name of Operator RICE OPERATING COMPANY	8. Well No. L-21
3. Address of Operator 122 West Taylor, Hobbs, NM 88240	9. Pool name or Wildcat
4. Well Location Unit letter \underline{L} : <u>1520</u> feet from the <u>SOUTH</u> line and <u>44</u>	0 feet from theWEST line
Section 21 Township 21 South Range 36 East N 10. Elevation (Show whether DF, RKB, RT, GR, e	IMPM, Lea County, NM
10. Elevatori (Snow whenter Dr, RKB, R1, OK, e 3589' above sea level	uc.
Check Appropriate Box to Indicate Nature of No NOTICE OF INTENTION TO: SUBS PERFORM REMEDIAL PLUG AND ABANDON REMEDIAL WORK WORK	EQUENT REPORT OF: ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING	GOPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING CASING TEST AND CE	MENT JOB
OTHER: Remove below-grade redwood tanks and close OTHER: emergency pit	
 Describe proposed or completed operations. (Clearly state all pertinent details, and give per proposed work). SEE RULE 1103. 	rtinent dates, including estimated date of starting any
Proposed work according to generic closure plans for below grade redwo	od tanks and permitted pits:
Delineate site for contamination, remove redwood tanks, close emergency overflow pit (Pit Perm NMOCD guidelines. Replace redwood tanks with fiberglass tanks within an engineered secondar under approved generic closure plan (attached). All major events will be coordinated to allow 4	ry-containment. Work began in January, 2000
Information from the State Engineer's Office in Roswell estimated depth to ground water at 175- "G" of Section 29, T21S-R36E, which is more than 5000' from the facility at Well L-21. Topogr bodies within 1000' of the L-21 facility. A site review indicated no water sources at all within 1	aphic maps show no indication of surface water
Depth to ground water: $>100^{\circ} = 0$; No water source within $1000^{\circ} = 0$; $>1000^{\circ}$ to surface water	body = 0 Site Assessment=0
I hereby certify that the information above is true and complete to the best of my knowledge and	belief.
SIGNATURE and know Haynes TITLE OPERATIONS	ENGINEERDATE 2-23-00
Type or print nameCAROLYN DORAN HAYNES	Telephone No. 505-393-9174
(This space for State use) APPROVED	
BYTITLE Conditions of approval, if any:	DATE

System: EME Well: L-21 Legals: 21-21S-36E

South of Monument on Hwy 8 to the junction of Hwy 176. Turn west on Hwy 176 and go 1 mile. Turn left through cattle guard and go 7/10 mile south. Turn right into location.



NEW MEXICO STATE LAND OFFICE

SALT WATER DISPOSAL EASEMENT

SALT WATER DISPOSAL EASEMENT NO. SWD-063

THIS AGREEMENT, dated this 10th day of June, 1998, made and entered into between the State of New Mexico, acting by and through the undersigned, its Commissioner of Public Lands, hereinafter called the grantor, and Rice Engineering, 122 West Taylor, Hobbs, New Mexico 88240, hereinafter called the grantee,

WITNESSETH:

That, whereas, the said grantee has filed in the Land Office an application for salt water disposal easement and has tendered the sum of $\frac{5500.00}{100}$, together with the sum of 330.00 application fee;

NOW, THEREFORE, in consideration of the foregoing tender, receipt of which is acknowledged, and the covenants herein, grantor does grant to the grantee a salt water disposal easement for the sole and only purpose of underground disposal of salt water produced in connection with oil and gas operations, together with the right to make such reasonable use of the land as may be necessary to dispose of said salt water. Said easement shall cover the following described lands:

INSTITUTION	SECTION	TOWNSHIP	RANGE	SUBDIVISION	ACRES
C.S.	21	21S	36E	Portion Within	2.5
		NW4SW4			

TO HAVE AND TO HOLD said lands and privileges hereunder for a term of \underline{Two} years from the date first above written, subject to all terms and conditions hereinafter set forth:

1. Grantee shall pay the grantor the sum of $\frac{500.00}{0}$ annually, in advance.

2. With the consent of the grantor and payment of a fee of \$30.00, the grantee may surrender or relinquish this salt water disposal easement to the grantor; provided, however, that this surrender clause shall become absolutely inoperative immediately and concurrently with the filing of any suit in any court or law or equity by the grantor or grantee or any assignee to enforce any of the terms of this salt water disposal easement.

3. The grantee, with the prior written consent of the grantor, may assign his salt water disposal easement in whole only. Upon approval of the assignment, in writing, by the grantor, the grantee shall stand relieved from all obligations to the grantor with respect to the lands embraced in the assignment, and the grantor shall likewise be relieved from all obligations to the assignor as to such tracts, and the assignee shall succeed to all of the rights and privileges of the assignor with respect to such tracts and shall be held to have assumed all of the duties and obligations of the assignor to the grantor as to such tracts.

4. The grantor may cancel this salt water disposal easement for nonpayment of annual consideration or for violation of any of the terms and covenants hereof; provided, however, that before any such cancellation shall be made, the grantor must mail to the grantee or assignee, by registered mail, addressed to the post office address of such grantee or assignee, shown by the records, a thirty-day notice of intention to cancel said salt water disposal easement, specifying the default for which the salt water disposal easement is subject to cancellation. No proof of receipt of notice shall be necessary and thirty days after such mailing, the grantor may enter cancellation unless the grantee shall have sooner remedied the default. 5. The grantee shall furnish copies of records and such reports and plats of his operations, including any and all data relating to geological formations as the grantor may reasonably deem necessary to his administration of the lands.

6. Grantee may make or place such improvements and equipment upon the land as may reasonably be necessary to dispose of salt water, and upon termination of this salt water disposal easement for any reason, grantee may remove such improvements and equipment as can be removed without material injury to the premises; provided, however, that all sums due the grantor have been paid and that such removal is accomplished within one year of the termination date or before such earlier date as the grantor may set upon thirty days written notice to the grantee. All improvements and equipment remaining upon the premises after the removal date, as set in accordance with this paragraph, shall be forfeited to the grantor without compensation. All pipelines constructed hereunder shall be buried below plow depth.

7. This salt water disposal easement is made subject to all the provisions and requirements applicable thereto which are to be found in various acts of the legislature of New Mexico and the rules of the Commissioner of Public Lands of the State of New Mexico, the same as though they were fully set forth herein, and said laws and rules, so far as applicable to this salt water disposal easement, are to be taken as a part hereof.

8. All the obligations, covenants, agreements, rights and privileges of this salt water disposal easement shall extend to and be binding and inure to the benefit of the lawful and recognized assigns or successors in interest of the parties hereto.

9. Grantee shall post with grantor a bond or undertaking in an amount required by grantor in favor of the owner of improvements lawfully located upon the lands herein to secure payment of damage, if any, done to such improvements by reason of grantee's operations.

10. Payment of all sums due hereunder shall be made at the office of the Commissioner of Public Lands, 310 Old Santa Fe Trail, P. O. Box 1148, Santa Fe, New Mexico 87504-1148.

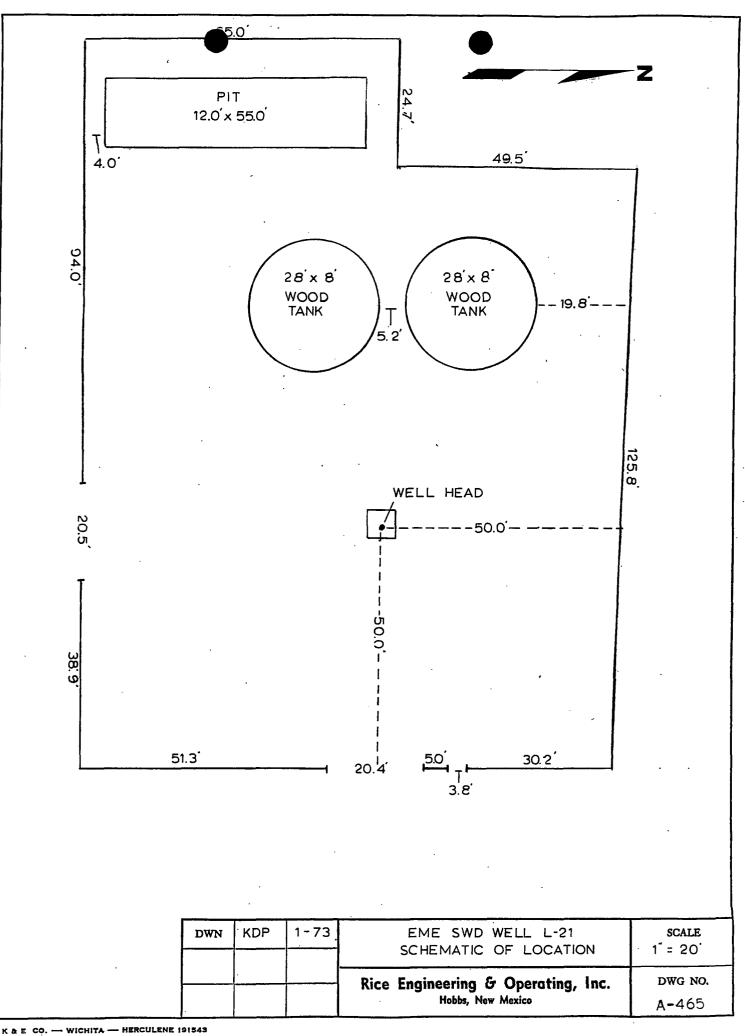
11. Grantee, including his heirs, assigns, agents, and contractors shall at their own expense fully comply with all laws, regulations, rules, ordinances, and requirements of the city, county, state, federal authorities and agencies, in all matters and things affecting the premises and operations thereon which may be enacted or promulgated under the governmental police powers pertaining to public health and welfare, including but not limited to conservation, sanitation, aesthetics, pollution, cultural properties, fire, and ecology. Such agencies are not to be deemed third party beneficiaries hereunder; however, this clause is enforceable by the grantor as herein provided or as otherwise permitted by law.

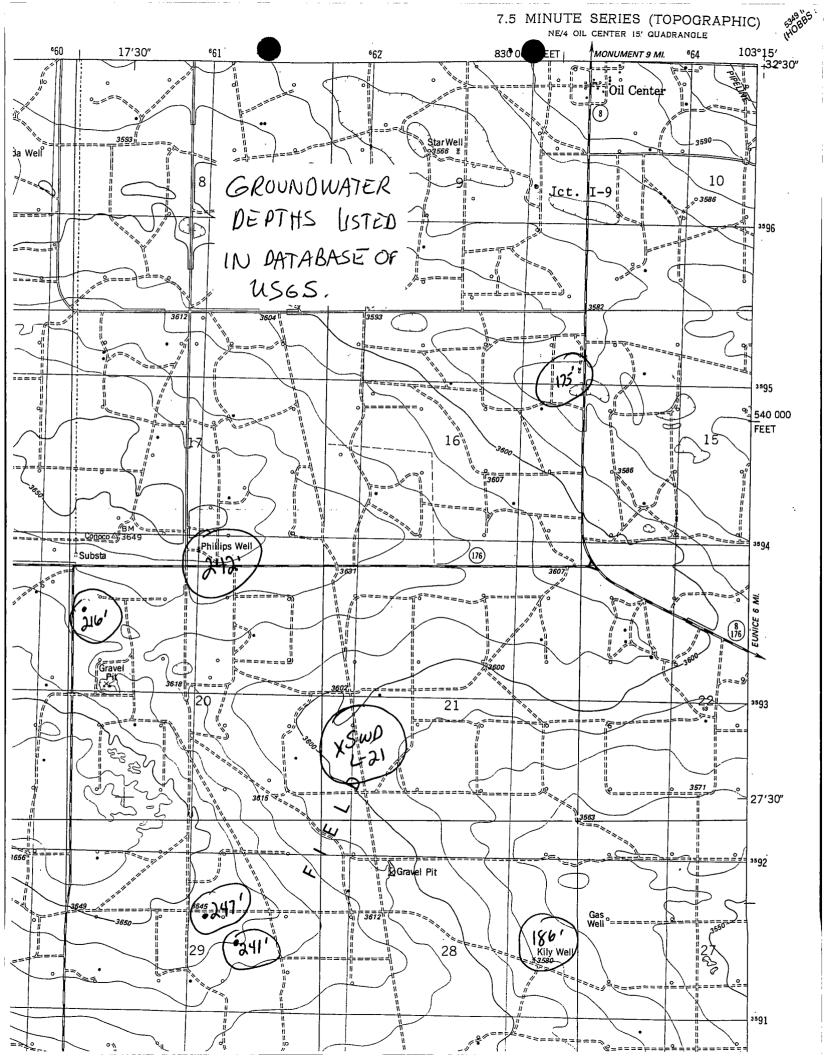
12. Grantee shall save and hold harmless, indemnify and defend the State of New Mexico, the Commissioner of Public Lands, and his agent or agents, in their official and individual capacities, of and from any and all liability claims, losses, or damages arising out of or alleged to arise out of or indirectly connected with the operations of grantee hereunder, off or on the herein above described lands, or the presence on said lands of any agent, contractor or sub-contractor of grantee.

AFFIRMATION OF GEOLOGIC, ENGINEERING & HYDROLOGIC INVESTIGATION: I hereby affirm that the available geologic and engineering data have been examined and no evidence has been found of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water. IN WITNESS WHEREOF, the State of New Mexico has hereunto signed and caused its name to be signed by its Commissioner of Public Lands, thereunto duly authorized with the seal of his office affixed, and the grantee has signed this agreement to be effective the day and year above written.

STATE OF NEW MEXICO Zilla Porter Padilla Director BY: <u>Au</u> <u>Powell</u> RAY POWELL, M.S., D.V.M. COMMISSIONER OF PUBLIC LANDS PRESIDENT RUE FINGLINGERING COEP.
(PERSONAL ACKNOWLEDGMENT)
STATE OF)) ss. COUNTY OF)
The foregoing instrument was acknowledged before me this day of,19,by
(ACKNOWLEDGMENT BY ATTORNEY-IN-FACT) STATE OF) COUNTY OF)
The foregoing instrument was acknowledged before me this day of, 19, as attorney-in-fact on behalf of
(ACKNOWLEDGMENT BY CORPORATION) STATE OF <u>Texas</u>) SS. COUNTY OF <u>Midland</u>) The foregoing instrument was acknowledged before me this <u>7th</u> day of <u>May</u> , 1998, by Loy B. Goodheart, <u>President</u> (NAME) (TITLE) of <u>Rice Engineering Corporation</u> .
My Commission Expires: November 15, 1999 Notary Public: Man Addressing Achuraty MARIA KATHERINA SCHWARTZ MY COMMISSION EXPIRES November 15, 1999

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i in an an Lineachtairte an an ann an		Engineering & Operating, Inc.	DWG NO.





 Pircrist I + (505) 393-6161

 P. O. Box 1990

 Hobbs. NM \$8241-1990

 District II + (505) 748-1283

 811 5. Pirm

 Arussin. NM \$8210

 District III + (505) 334-6178

 1000 R in Beases Road

 Attac. NM \$7410

 District IY - (505) \$27-7131

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

Originated 6/27/97

Subout Original Plan I Copy to Santa Fe

1,

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY	
Address: 122 West Taylor	
Hobbs, New Mexico 88240	
Phone Number: (505) 393-9174	
Previous Operator(s):None	
Is the pit permitted: Yes 🔲 No 👗	
Unit Letter: L Section: 21 Township: 215 Range:	
County: Lea County	
ocation Name	_
Number of wells to the pit: System Terminal Tanks (Varies)	
Are the wells to the pit operated by one operator in or multiple operators 🔯	
Total daily volume (in barrels) to the pit:1,500	
Pit Type: 2-Below ground redwood terminal tanks (Emergency: Production, Workover, Reserve/Drilling(greater than 6 months old). Plan. Blowdown, Seperator, Dehydratoc Line Drip, BS& W/Tank Bottoms, Compressor, Pigging, Washdown, or other)	-
What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt(production water)	
Pit age (years):35	
Is the pit lined 🚺 or unlined 🗔	
Type of liner (None, Synthetic, Clay): Redwood tank resting on concrete pad	
Is leak detection present: Yes 🖾 No 🗌 Observation boxes around tanks	
Is the pit netted: Yes 🖾 No 🗆 Covered with redwood top	
Pit dimensions (LxWxD): two-28'diaX8'Ht	
CERTIFICATION	
vereby certify that the information submitted is true and correct to the best of my knowledge and belief. Roger Hall Operations Engineer Name: Title:	
Signature Projen Itall Date 10/31/97	

A pit is defined as any below grade or surface feature which receives any materials other than fresh wears.

indes 1 · (505) 393-6161		New Mo	exico	Originated 6/27/97
O. Box 1960 Jobbs. NM \$\$241-1980			I Resources Department	
District 11 - (505) 748-1283		Conservatio HO South Pac	on Division	
Vienin, NM 88210 District [[] - (505) 334-6178		ita Fe, New M		Submut Original
000 Rio Brazos Road ster, NM 87410		(505) 827	7131	Plus 1 Copy to Santa Fe
District IV - (505) 827-7131		والمعروف والمتحد والمرابع		
	РГТ	INVENTO	RY FORM	
Operator:RIC	E OPERATING COMPAN	Y		
100	WEST TAYLOR			
	bs, New Mexico 88	240		<u> </u>
Phone Number:(50	-		······	*****
Previous Operator(s):	None			. <u></u>
Is the pit permitted:	Yes 🚺 No 🗌			
	n: <u>21</u> Township: <u>2</u>	15 Range:	36E	
		<u>15</u>		
County: Lea				
Location Name EME	Salt Water Dispos	<u>al System</u>	Well L-21	
Number of wells to the	e pit: 1			
A m the walls to the ni	t operated by one operator	 X or multiple		
_	-	-		
Total daily volume (in	barrels) to the pit:	None		
	rgency			· · ·
	orkovez, Reserve/Drilling(greater scioms, Compressor, Pigging, Wasi		ld).Flaze, Blowdowa, Seperator, Dehydrator,	
What types of unstation	re accepted in the nit (Even	DI Non-eren	npt, Both, None):	tion water)
Pit age (years): 35	<u></u>			
Is the pit lined 🔲 or	unlined XX			
Type of liner (None, S	nthetic, Clay) :None			
· · ·				
Is leak detection prese	nt: Yes 🗋 No 👯			
Is the pit netted: Yes] No Å			
Pit dimensions (LxWxI	D): <u>51 י גוען גי 51'</u>			
CERTIFICATION				
A hereby certify that the	information submitted is	nie and corre-	t to the best of my knowledge and belie	ef.
• •	er Hall		Operations Engineer	
Name:	gn Hall	_ Title	10/28/97	
Signature / W	on /tall	_ Date	10/28/47	

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

ISTRICT II O. Drawer DD. Artesia, NM \$8211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Lnergy, Minerals and Natural Resources Den Form C-134 Aug. 1, 1989

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Permit No. (For Division Use Only)

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952 FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule711(f)

Operator Name: Rice Engineering Corporation

Operator Address: 122 W. Taylor, Hobbs, New Mexico 88240

Lease or Facility Name E-M-E SWD System Well L-21 21 21S 36E Location Út. Ltr. Sec. Twp. Rge Size of pit or tank: $51'x17'x2\frac{1}{2}'$ deep, approx. 400 bbls.

Operator requests exception from the requirement to screen, net or cover the pit or tank at the above-described facility.

х The pit or tank is not hazardous to migratory waterfowl. Describe completely the reason pit is non-hazardous.

The pit is used only in emergencies such as major well remedial work.

<u>Normally kept empty.</u>

If any oil or hydrocarbons should reach this facility give method and time required for removal: 1)

Method: Vacuum truck

Time: Within 24 hrs. of discovery

If any oil or hydrocarbons reach the above-described facility the operator is required to notify the 2) appropriate District Office of the OCD with 24 hours.

Operator proposes the following alternate protective measures:

CERTIFICATION BY OPERATOR: I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Title Division Manager Signature /

Printed Name S. A. Haktanir

July 25, 1990 Date

Telephone No. 393-9174

FOR OIL CONSERVATION DIVISION USE	
Date Facility Inspected 8290	Approved by Cle W Asa
	DateSEP05



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

June 1, 1999

CERTIFIED MAIL RETURN RECEIPT NO. Z 357 870 131



Carolyn Doran Haynes Rice Operating Company 122 West Taylor Hobbs, NM 88240

Re: Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks (Generic Closure Work Plan) for Rice Operating Company's saltwater disposal system facilities.

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) has reviewed Rice Operating Company's (ROC) closure work plans dated March 22, 1999 and revisions to the plans dated April 23, 1999 for the saltwater disposal system facilities. The NMOCD Hereby approves the plans subject to the following conditions:

- 1. ROC shall complete all monitor well(s) as follows:
 - a. At least 15 feet of well screen shall be placed across the water table interface with 5 feet of the well screen above the water table and 10 feet of the well screen below the water table.
 - b. An appropriately sized gravel pack shall be set in the annulus around the well screen from the bottom of the hole to 2-3 feet above the top of the well screen.
 - c. A 2-3 foot bentonite plug shall be placed above the gravel pack.
 - d. The remainder of the hole shall be grouted to the surface with cement containing 3-5% bentonite.
 - e. A concrete pad shall be placed at the surface around the well. The well shall be installed with a suitable protective locking device.
 - f. The well(s) shall be developed after construction using EPA approved procedures.

Ms: Haynes June 1, 1999 Page 2

- 2. No less than 48 hours after the well(s) are developed, ground water from all monitor well(s) shall be purged, sampled and analyzed for concentrations of benzene, toluene, ethyl benzene, xylene, polycyclic aromatic hydrocarbons (PAH's), total dissolved solids (T.S.) and New Mexico Water Quality Control Commission (WQCC) metals and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC) procedures.
- 3. ROC shall notify OCD pursuant to Rule 116 upon discovery of groundwater contamination.
- 4. All final soil samples submitted for laboratory analyses shall be sampled for BTEX (8021), TPH (418.1 or 8015 GRO & DRO) and Chlorides.
- 5. ROC will notify the OCD Santa Fe office and the OCD District office at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples during OCD's normal business hours.
- 6. ROC is required to sample and provide to NMOCD the analytical test results for each side wall and bottom of any excavated areas. The samples taken shall be tested for BTEX (8021), TPH and Chlorides. Composite samples will be allowed if there are no obvious hot spots. TPH methods can be EPA 418.1, or 8015 if both GRO and DRO are ran. All sampling and testing shall be pursuant to approved EPA methods and procedures.
- 7. All wastes generated during the investigation shall be disposed of at an OCD approved site.
- 8. ROC shall submit a report of the investigations to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office. ROC must receive NMOCD approval before commencing backfilling, liner or new equipment installations. The report shall include the following:
 - a. A description of all investigations, remediation and monitoring activities which have occurred including conclusions, recommendations, risk assessments and request for implementation of any future work and/or closure.
 - b. A geologic/lithologic log and well completion diagram for all soil borings and/or monitor well(s).
 - c. Vertical and horizontal Isopleth maps for remaining contaminants of concern which were observed during the investigations.

Ms: Haynes June 1, 1999 Page 3

- e. Summary tables of all soil and/or ground water quality sampling results and copies of all laboratory analytical data sheets and associated QA/QC data collected.
- f. The quantity and disposition of all wastes generated.

Please be advised that NMOCD approval of this plan does not relieve ROC of liability should their investigations and/or operations fail to adequately investigate and/or remediate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve ROC of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs Office

RICE Operating Company

122 West Taylor • Hobbs, NM 88240 Phone: (505) 393-9174 • Fax: (505) 397-1471

April 23, 1999

Mr. Wayne Price NM Energy, Minerals and Natural Resources Department Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

Re: Revision of Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks

Mr. Price:

Enclosed are the revised Closure Plans for Below Grade Redwood Tanks and for Permitted Emergency Pits. The revisions concern changes in items #3B, #8 and #10 for the Below Grade Redwood tanks and items #4B, #6 and #8 for the Permitted Emergency Pits, as directed by our telephone conversation of April 22, 1999, and your subsequent e-mail.

It is important to reiterate that **all activities** pertaining to closure of emergency pits and replacement of the redwood tanks will be conducted **pursuant to NMOCD guidelines**. All site assessments, work plans, time schedules, sample and test plans, impacted soil removal, replacement tankage and facilities, etc., will be specifically fitted to the particular site applying for closure but will generally follow these generic plans. NMOCD will be notified in advance of significant occasions and will be consulted throughout the closure process for concurrence of plan alterations, assessment and analytical interpretations, etc.

Also enclosed are preliminary generic drafts of the open, below-ground-level replacement tank facility that you requested. The elevation of the collection vessel is vital to the system's gravity-flow capability, and in most cases, the replacement tank facility must remain at the same lower-than-surface elevation as the redwood tanks. Each site will be assessed for elevation limitations and the replacement facility will be designed accordingly. Rice Operating Company proposes to contain new tanks and piping within a concrete, sealed and frequently inspected (for integrity) vault-like enclosure, thus insuring future impact minimization to the environment and the public.

Thank you,

Carrage Doran Hargues

Carolyn Doran Haynes Operations Engineer

Enclosures Cc KH; JC; file; Ms. Donna Williams, OCD District I, Hobbs, NM

RICE Operating Company

122 West Taylor • Hobbs, NM 88240 Phone: (505) 393-9174 • Fax: (505) 397-1471

March 22, 1999

Mr. Wayne Price NM Energy, Minerals and Natural Resources Department Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

Re: Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks

Mr. Price:

Enclosed are copies of emergency pit permits and below grade redwood tank installations for our operations in Lea County, New Mexico, that were previously submitted to NMOCD in October, 1997. This documentation serves as a list of facilities operated by Rice Operating Company (ROC) that contain or have contained pits or below grade tanks.

Closure plans for two locations, F-29 and H-35, are in process with the OCD now. The generic "Closure Plan for Below Grade Redwood Tanks" detailed below will accommodate the systematic closure of existing ROC operated below-grade redwood tanks. The existing emergency pits will be closed pursuant to the generic "Closure Plan for Permitted Emergency Pits", also detailed below. It is expected that at facilities containing both, the below-grade redwood tank (s) and the emergency pit will be closed at the same time, but under separate closure plans and closure reports.

Rice Operating Company is the service provider (operator) for these salt-water disposal systems in SE NM. Rice Operating has no ownership of any of the pipelines, wells, or facilities. Each system is owned by a consortium of oil producers and they are called "System Partners," and the System Partners provide all operating capital on a percentage ownership/usage basis. Each location will independently require System Partner AFE approval and advance billing for the closure funds. Only after funds are received can closure work begin.

Thank you,

COPY

Carolyn Doran Haynes Operations Engineer

Cc KH; JC; file; Ms. Donna Williams, OCD District I, Hobbs, NM



Closure Plan for Below Grade Redwood Tank

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Procure soil samples from 3' below bottom of tanks (9-11' below grade) at tank sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 4.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 3.
- 3. Delineate any portion of tank site that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 4.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 4. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing.
- 5. Move onto SWD facility site with temporary tank system. Re-route fluid flow from below grade redwood tanks into the temporary tank system. Plumb to SWD well.
- 6. Empty and clean redwood tanks, properly disposing of any BS & W. Excavate sides of redwood tanks to allow for working space to manipulate tank support banding. Remove redwood tanks reserving boards for proper disposal.
- 7. Excavate ramp into redwood tank hole. Remove and properly dispose of concrete base.
- 8. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 9. Procure random 5-point composite bottom sample from 3'below tank bottom and random 4point composite side sample for lab TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 11.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 10.
- 10. Evaluate site for risk assessment: propose to excavate hole bottom and sides as practical to minimize risk; install 40-mil polyethylene liner on sanded bottom, graded to direct moisture accumulation away from the impacted area; cover and compact bottom with 2' sand fill.
- 11. Apply to NMOCD for closure of redwood tank site per NMOCD guidelines and site results.
- 12. After approval is received, proceed with installation of new fiberglass or steel tanks and appropriate plumbing changes within engineered secondary containment system.

REVISED 4-23-99

Closure Plan for Permitted Emergency Pits

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Remove and properly dispose of visibly contaminated soil pursuant to NMOCD guidelines.
- 3. Procure soil samples from surface and 3' below excavation bottom and excavation sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 6.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 4.
- 4. Delineate any portion of excavation that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 5.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for Chloride and BETX levels. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 5. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing
- 6. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 7. Procure random 5-point composite bottom sample and random 4-point composite side sample for laboratory TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 9.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 8.
- 8. Evaluate site for risk assessment. Excavate bottom and sides to a depth and width that is deemed practical by soil analytical results. Install a 40-mil polyethylene liner on bottom, graded to provide water run-off away from the contamination left in place below the liner; cover and compact over the liner with 1-2' of sand fill.
- 9. Apply to NMOCD for closure of permitted emergency pit site per NMOCD guidelines and site results.
- 10. After approval is received, proceed with backfill and grading of pit site with clean soil and/or appropriately blended soil compatible with the on-site soil.

Closure Plan for Below Grade Redwood Tank

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Procure soil samples from 3' below bottom of tanks (9-11' below grade) at tank sides.
 - A. If soil samples are < 100 ppm TPH and < 250 ppm Chlorides, proceed to Step 4.
 - B. If soil samples are > 100 ppm THP or > 250 ppm Chlorides, proceed to Step 3.
- 3. Delineate any portion of tank site that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 4.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 4. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing.
- 5. Move onto SWD facility site with temporary tank system. Re-route fluid flow from below grade redwood tanks into the temporary tank system. Plumb to SWD well.
- 6. Empty and clean redwood tanks, properly disposing of any BS & W. Excavate sides of redwood tanks to allow for working space to manipulate tank support banding. Remove redwood tanks reserving boards for proper disposal.
- 7. Excavate ramp into redwood tank hole. Remove and properly dispose of concrete base if impacted. If concrete is not impacted, use as fill (below plow depth) in excavation area.
- 8. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 9. Procure random 5-point composite bottom sample from 3'below tank bottom and random 4-point composite side sample for lab TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 11.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 10.
- 10. Evaluate site for risk assessment: delineate to assess depth and horizontal extent of impact corresponding to NMOCD guidelines for site assessment value; excavate bottom and sides as practical to minimize risk; install compacted clay liner to meet or exceed 95% of a Proctor Test ASTM-D-698 with permeability (hydraulic conductivity) equal or less than 1x10⁻⁷ cm/sec for containment/isolation of impact.
- 11. Discuss results/risk assessment with NMOCD for verbal approval to proceed with backfill/installation of new tanks and plumbing within engineered secondary containment system.
- 12. Apply to NMOCD for closure of redwood tank site per NMOCD guidelines and site results.

Closure Plan for Permitted Emergency Pits

2-23-00 arranting gy and

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Remove and properly dispose of visibly contaminated soil pursuant to NMOCD guidelines.
- 3. Procure soil samples from surface and 3' below excavation bottom and excavation sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 6.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 4.
- 4. Delineate any portion of excavation that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 5.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 5. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing
- 6. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 7. Procure random 5-point composite bottom sample and random 4-point composite side sample for laboratory TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 9.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 8.
- 8. Evaluate site for risk assessment: delineate to assess depth and horizontal extent of impact corresponding to NMOCD guidelines for site assessment value; excavate bottom and sides as practical to minimize risk; install compacted clay liner to meet or exceed 95% of a Proctor Test ASTM-D-698 with permeability (hydraulic conductivity) equal or less than 1x10⁻⁷ cm/sec for containment/isolation of impact.
- 9. Discuss results/risk assessment with NMOCD for verbal approval to proceed with backfill.
- 10. Apply to NMOCD for closure of permitted emergency pit site per NMOCD guidelines and site results.

2 •		
Submit 3 Copies To Appropriate Ene	Form C-103 Revised 1-1-89	
District Office DISTRICT I	ergy, Minerals and Natural Resources Department	WELL API NO.
P.O. Box 1980, Hobbs, NM 88240	2040 South Pacheco Santa Fe, NM 87505	30-025-21852
DISTRICT II 811 South First, Artesia NM 88210		5. Indicate Type of Lease STATE FEE
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410		6. State Oil & Gas Lease No.
	ND REPORTS ON WELLS	7. Lease Name or Unit Agreement
DIFFERENT RESERVOIR. USE "APPLICA	TO DRILL OR TO DEEPEN OR PLUG BACK TO A ATION FOR PERMIT" (FORM C-101) FOR SUCH DPOSALS	Name: Eunice-Monument-Eumont Salt Water Disposal System, SWD Facility L-21
1. Type of Well:		
	Other Emergency pit and Below-grade Redwood Tank	
2. Name of Operator		8. Well No.
RICE OPERATING COMPANY 3. Address of Operator	· · · · · · · · · · · · · · · · · · ·	L-21 9. Pool name or Wildcat
122 West Taylor, Hobbs, NM 88240		5. Fool name of windcat
4. Well Location		
		om the
Section 21 Township 21 So	uthRange 36 EastNMPM,levation (Show whether DF, RKB, RT, GR, etc.	Lea County, NM
	589' above sea level	
Check Approp	riate Box to Indicate Nature of Notice, Repo	rt or Other Data
NOTICE OF INTENTION 7 PERFORM REMEDIAL PLUG AND AN WORK		' REPORT OF: ALTERING CASING
TEMPORARILY ABANDON CHANGE PLA	NS COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	CASING TEST AND CEMENT JOB	
OTHER: Remove below-grade redwood tanks emergency pit	and close OTHER:	
12. Describe proposed or completed operations. (proposed work). SEE RULE 1103.	Clearly state all pertinent details, and give pertinent dates, i	ncluding estimated date of starting any
,	osure plans for below grade redwood tanks a	nd permitted pits:
NMOCD guidelines. Replace redwood tanks with f	anks, close emergency overflow pit (Pit Permit # H-73) and iberglass tanks within an engineered secondary-containment Il major events will be coordinated to allow 48 hrs notice to	it. Work began in January, 2000
"G" of Section 29, T21S-R36E, which is more than	swell estimated depth to ground water at 175-247' and indic 5000' from the facility at Well L-21. Topographic maps sh iew indicated no water sources at all within 1000' feet of th	now no indication of surface water
Depth to ground water: $>100^{\circ} = 0$; No water source	e within 1000' = 0; >1000' to surface water body = 0 Si	ite Assessment=0
I hereby certify that the information above is true an	d complete to the best of my knowledge and belief.	·····
SIGNATURE Carolyn Doran Harp	TTTLEOPERATIONS ENGINEER	DATE 2-23-00
Type or print name CAROLYN DORAN HAY	(NES]	felephone No. 505-393-9174
(This space for State use)		
APPROVED BY	TITLE	DATE
Conditions of approval, if any:		

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. Z 577 009 531

February 23, 2000

Mr. Wayne Price NM Energy, Minerals, and Natural Resources Dept. Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

RE: REDWOOD TANK AND EMERGENCY OVERFLOW PIT (Permit No. H-73) CLOSURE PLAN FOR EME SWD FACILITY L-21 Unit Letter L, Sec. 21, T21S, R36E Lea County, NM

Mr. Price:

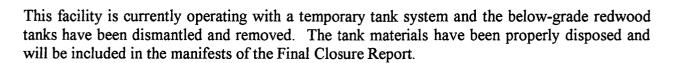
Rice Operating Company requests closure plan approval for the emergency overflow pit, Pit Permit # H-73 and the below-grade redwood tanks at the Eunice-Monument-Eumont (EME) Salt Water Disposal Site SWD Well L-21, located in Unit L, Sec. 21, T21S, R36E, Lea County, NM.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The EME System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Closure projects require System Partner AFE approval and work begins as funds are received.

The Closure Project AFE for the SWD L-21 Facility has been approved by the System Partners and work was started in January 2000.

The L-21 facility is included in the Rice Operating Company (ROC) generic closure plan for emergency pits and below-grade redwood tanks and is the third facility to apply under the generic plan. Rather than repair the below-grade redwood tanks, the EME SWD System will replace them with aboveground fiberglass tanks (including an emergency overflow tank) set within secondary containment (poly-liner). The emergency overflow pit will be closed. ROC expects to simultaneously close the pit and tanks pursuant to NMOCD guidelines and the ROC generic plan (awaiting February 23, 2000 revision approval). The enclosed C-103 form addresses this intention and defines the site-specific assessment for OCD guidelines. Supporting documentation is also enclosed.

EME SWD L-21 Rdwd Tk; Pit Closure Plan February 23, 2000 Page 2 of 2



ROC will schedule all major events with a 48-hour advance notice to the NMOCD. Ms. Donna Williams has visited this site and Whole Earth Environmental will be the on-site manager of the excavation project. The Final Closure Report will follow at the end of the project.

Thank you for your consideration of this closure plan request.

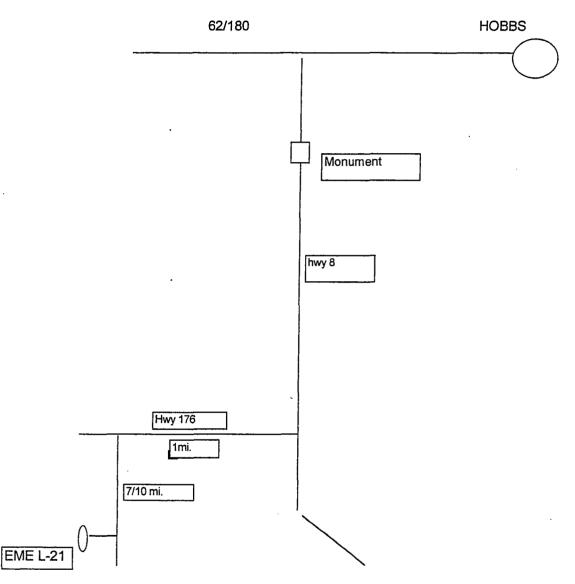
RICE OPERATING COMPANY

Caroly Doran Harmes

Carolyn Doran Haynes Operations Engineer

Enclosures Cc: KH, file, Ms. Donna Williams, NMOCD, District I Office 1625 N. French Drive Hobbs, NM 88240 System: EME Well: L-21 Legals: 21-21S-36E

South of Monument on Hwy 8 to the junction of Hwy 176. Turn west on Hwy 176 and go 1 mile. Turn left through cattle guard and go 7/10 mile south. Turn right into location.



NEW MEXICO STATE LAND OFFICE

SALT WATER DISPOSAL EASEMENT

SALT WATER DISPOSAL EASEMENT NO. SWD-063

THIS AGREEMENT, dated this 10th day of June, 1998, made and entered into between the State of New Mexico, acting by and through the undersigned, its Commissioner of Public Lands, hereinafter called the grantor, and Rice Engineering, 122 West Taylor, Hobbs, New Mexico 88240, hereinafter called the grantee,

WITNESSETH:

That, whereas, the said grantee has filed in the Land Office an application for salt water disposal easement and has tendered the sum of \$500.00, together with the sum of \$30.00 application fee;

NOW, THEREFORE, in consideration of the foregoing tender, receipt of which is acknowledged, and the covenants herein, grantor does grant to the grantee a salt water disposal easement for the sole and only purpose of underground disposal of salt water produced in connection with oil and gas operations, together with the right to make such reasonable use of the land as may be necessary to dispose of said salt water. Said easement shall cover the following described lands:

INSTITUTION	SECTION	TOWNSHIP	RANGE	SUBDIVISION	ACRES
C.S.	21	21S	36E	Portion Within	2.5
				NW4SW4	

TO HAVE AND TO HOLD said lands and privileges hereunder for a term of \underline{Two} years from the date first above written, subject to all terms and conditions hereinafter set forth:

1. Grantee shall pay the grantor the sum of $\frac{500.00}{0}$ annually, in advance.

2. With the consent of the grantor and payment of a fee of \$30.00, the grantee may surrender or relinquish this salt water disposal easement to the grantor; provided, however, that this surrender clause shall become absolutely inoperative immediately and concurrently with the filing of any suit in any court or law or equity by the grantor or grantee or any assignee to enforce any of the terms of this salt water disposal easement.

3. The grantee, with the prior written consent of the grantor, may assign his salt water disposal easement in whole only. Upon approval of the assignment, in writing, by the grantor, the grantee shall stand relieved from all obligations to the grantor with respect to the lands embraced in the assignment, and the grantor shall likewise be relieved from all obligations to the assignor as to such tracts, and the assignee shall succeed to all of the rights and privileges of the assignor with respect to such tracts and shall be held to have assumed all of the duties and obligations of the assignor to the grantor as to such tracts.

4. The grantor may cancel this salt water disposal easement for nonpayment of annual consideration or for violation of any of the terms and covenants hereof; provided, however, that before any such cancellation shall be made, the grantor must mail to the grantee or assignee, by registered mail, addressed to the post office address of such grantee or assignee, shown by the records, a thirty-day notice of intention to cancel said salt water disposal easement, specifying the default for which the salt water disposal easement is subject to cancellation. No proof of receipt of notice shall be necessary and thirty days after such mailing, the grantor may enter cancellation unless the grantee shall have sooner remedied the default. 5. The grantee shall furnish copies of records and such reports and plats of his operations, including any and all data relating to geological formations as the grantor may reasonably deem necessary to his administration of the lands.

6. Grantee may make or place such improvements and equipment upon the land as may reasonably be necessary to dispose of salt water, and upon termination of this salt water disposal easement for any reason, grantee may remove such improvements and equipment as can be removed without material injury to the premises; provided, however, that all sums due the grantor have been paid and that such removal is accomplished within one year of the termination date or before such earlier date as the grantor may set upon thirty days written notice to the grantee. All improvements and equipment remaining upon the premises after the removal date, as set in accordance with this paragraph, shall be forfeited to the grantor without compensation. All pipelines constructed hereunder shall be buried below plow depth.

7. This salt water disposal easement is made subject to all the provisions and requirements applicable thereto which are to be found in various acts of the legislature of New Mexico and the rules of the Commissioner of Public Lands of the State of New Mexico, the same as though they were fully set forth herein, and said laws and rules, so far as applicable to this salt water disposal easement, are to be taken as a part hereof.

8. All the obligations, covenants, agreements, rights and privileges of this salt water disposal easement shall extend to and be binding and inure to the benefit of the lawful and recognized assigns or successors in interest of the parties hereto.

9. Grantee shall post with grantor a bond or undertaking in an amount required by grantor in favor of the owner of improvements lawfully located upon the lands herein to secure payment of damage, if any, done to such improvements by reason of grantee's operations.

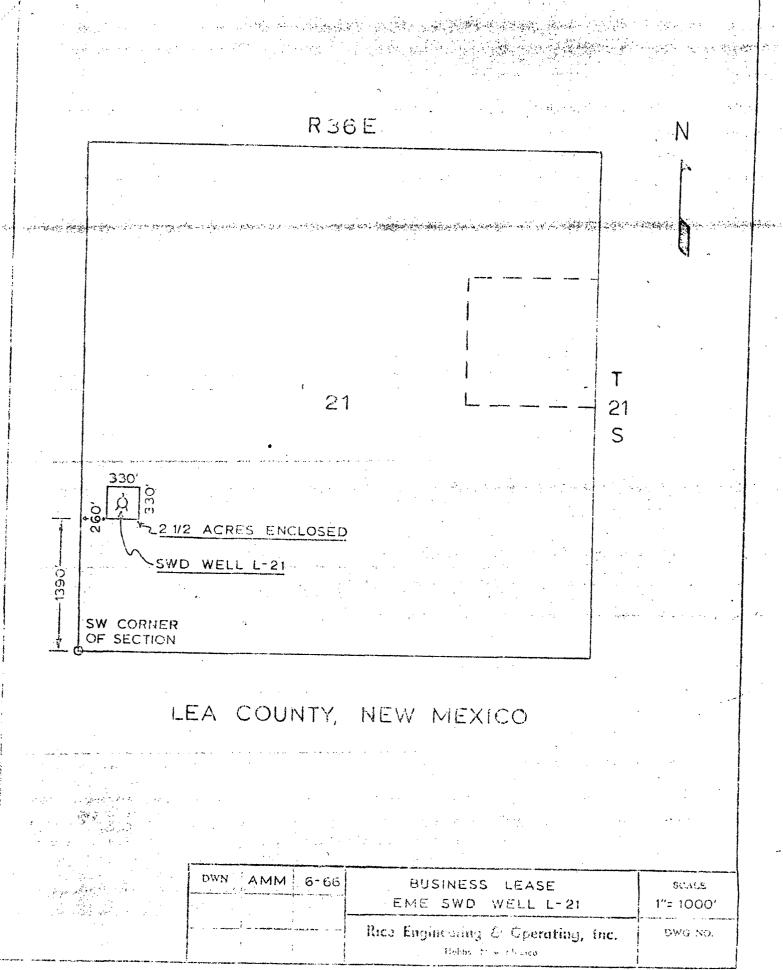
10. Payment of all sums due hereunder shall be made at the office of the Commissioner of Public Lands, 310 Old Santa Fe Trail, P. O. Box 1148, Santa Fe, New Mexico 87504-1148.

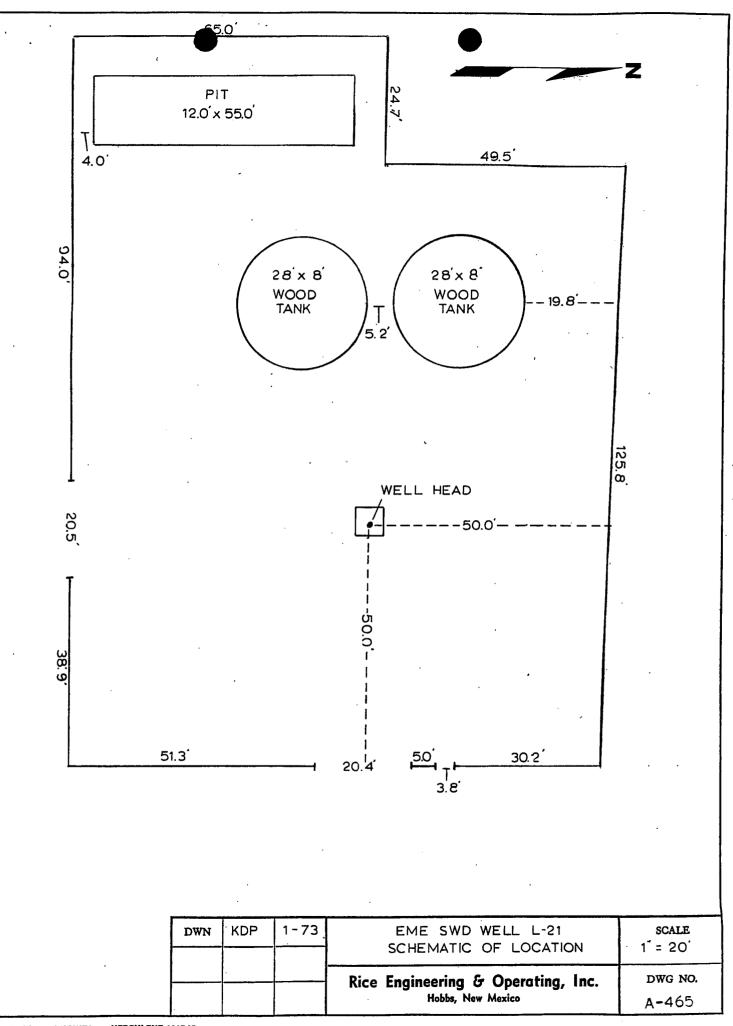
11. Grantee, including his heirs, assigns, agents, and contractors shall at their own expense fully comply with all laws, regulations, rules, ordinances, and requirements of the city, county, state, federal authorities and agencies, in all matters and things affecting the premises and operations thereon which may be enacted or promulgated under the governmental police powers pertaining to public health and welfare, including but not limited to conservation, sanitation, aesthetics, pollution, cultural properties, fire, and ecology. Such agencies are not to be deemed third party beneficiaries hereunder; however, this clause is enforceable by the grantor as herein provided or as otherwise permitted by law.

12. Grantee shall save and hold harmless, indemnify and defend the State of New Mexico, the Commissioner of Public Lands, and his agent or agents, in their official and individual capacities, of and from any and all liability claims, losses, or damages arising out of or alleged to arise out of or indirectly connected with the operations of grantee hereunder, off or on the herein above described lands, or the presence on said lands of any agent, contractor or sub-contractor of grantee.

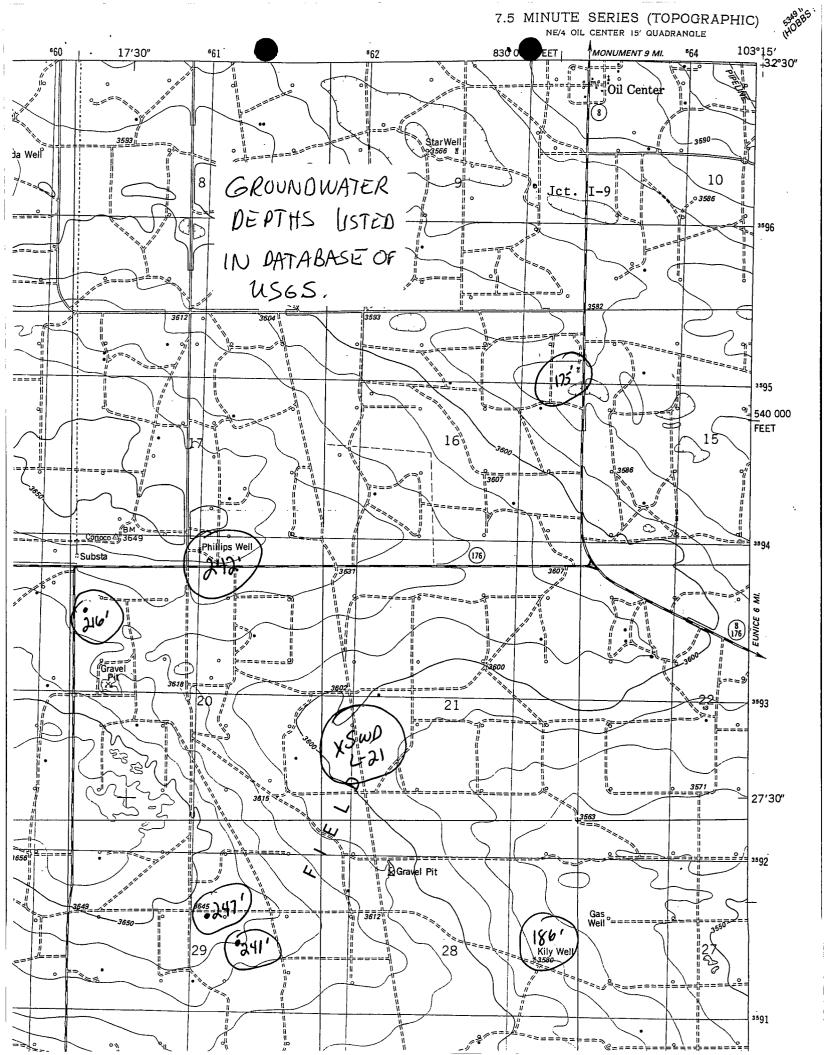
AFFIRMATION OF GEOLOGIC, ENGINEERING & HYDROLOGIC INVESTIGATION: I hereby affirm that the available geologic and engineering data have been examined and no evidence has been found of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water. IN WITNESS WHEREOF, the State of New Mexico has hereunto signed and caused its name to be signed by its Commissioner of Public Lands, thereunto duly authorized with the seal of his office affixed, and the grantee has signed this agreement to be effective the day and year above written.

STATE OF NEW MEXICO Zilla Porter Padilla Director BY: <u>Ray Powell</u> , M.S., D.V.M. COMMISSIONER OF PUBLIC LANDS BY: <u>My Fowell</u> BY: <u>My Fowell</u> GRANTEE PRESIDENT RUE FINGLING COEP.
(PERSONAL ACKNOWLEDGMENT)
STATE OF)) ss. COUNTY OF)
The foregoing instrument was acknowledged before me this day of
,19,by
(ACKNOWLEDGMENT BY ATTORNEY-IN-FACT) STATE OF) COUNTY OF) The foregoing instrument was acknowledged before me this day of, 19, as attorney-in-fact on behalf of
(ACKNOWLEDGMENT BY CORPORATION)
STATE OF Texas)) ss. COUNTY OF Midland)
The foregoing instrument was acknowledged before me this day
of May ,19 <u>98</u> , by Loy B. Goodheart , <u>President</u> (NAME) (TITLE)
of <u>Rice Engineering Corporation</u> . (CORPORATION)
My Commission Expires: November 15, 1999 Notary Public: Mana Automa Schurat
MARIA KATHERINA SCHWARTZ MY COMMISSION EXPIRES November 15, 1999





K & E CO. --- WICHITA --- HERCULENE 191543



PT INVENTORY FORM Operator: RICE OPERATING COMPANY Address: 122 Nest Taylor Hobbs, New Mexico 88240 Prove Number: (505) 393-9174 Prove Number: (505) 393-9174 Prove Number: (505) 393-9174 Provious Operator(s): None Is the pit permitted: Yes[] No[0] Unit Letter: L Section: 21 Township: 215 County: Lea County ocation Name: Funce-Monument-Fumont Salt Mater Disposal Mell L-21 Number of wells to the pit: System Terminal Tanks (Varies) Are the wells to the pit: System Terminal Tanks (Varies) Are the wells to the pit: System Terminal Tanks (Varies) Are the wells to the pit operated by one operator or multiple operators \$2 Total daily volume (in barrels) to the pit: 1,500 Phype: 2-Below ground redwood terminal tanks [Emergency Peduction Wedners: RestructMategresser that a somther displane. Section Name: What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water) Pit age (vara): 35 Is the pit lined [2] or unlined [] <t< th=""><th>Firsterict I + (505) 393-6161 P. O. Box 1960 Hobbs. NM \$8241-1980 District II + (505) 748-1283 811 5. Form Arussia. NM \$8210 District III - (505) 334-6178 1000 Rio Bosson Road Azum. NM \$7410 District IV - (505) \$27-7131</th><th>ergy Minerals and Oil Coi 2040 Santa I</th><th>New Mexico d Natural Resource nservation Division South Pacheco Street Fe, New Mexico 87505 (505) 827-7131</th><th></th><th>Originated 6/27/97 Subout Original Plus 1 Copy to Seata Fe</th></t<>	Firsterict I + (505) 393-6161 P. O. Box 1960 Hobbs. NM \$8241-1980 District II + (505) 748-1283 811 5. Form Arussia. NM \$8210 District III - (505) 334-6178 1000 Rio Bosson Road Azum. NM \$7410 District IV - (505) \$27-7131	ergy Minerals and Oil Coi 2040 Santa I	New Mexico d Natural Resource nservation Division South Pacheco Street Fe, New Mexico 87505 (505) 827-7131		Originated 6/27/97 Subout Original Plus 1 Copy to Seata Fe
Address: 122_West_Taylor Hobbs, New Mexico 88240 Phone Number: (505) 393-9174 Previous Operator(s): None Is the pit permitted: Yes No. Unit Letter: L Section: 21 Township: 215 Range: 26E County: Lea County ocation Name: Funice-Monument-Fumont Salt Mater. Disposal Well L-21 Number of wells to the pit: System Terminal Tanks (Varies) Are the wells to the pit operated by one operator or multiple operators \$\$\$ Total daily volume (in barrels) to the pit: 1,500 Pit Type: 2-Below ground redwood terminal tanks (Emergence Production, Wethere: Renew Dotting graum that is sorther dd). File: Berdore, Separate Dehydrate What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt(production water) Pit age (years): 35		PIT IN	IVENTORY FORM		
Hobbs, New Mexico 88240 Phone Number: (505) 393-9174 Previous Operator(s): None Is the pit permitted: Yes No I Unit Letter: L Section: 21 Township: 215 Range: 36E Unit Letter: L Section: 21 Township: 215 Range: 36E Unit Letter: L Section: 21 Township: 215 Range: 36E County Lea County	Operator:RICE_OPE	RATING COMPANY			<u></u>
Phone Number: [505] 393-9174 Previous Operator(s): None Is the pit permitted: Yec No[5] Unit Letter: L Section: 21 Township: 21S Range: 36E County: Lea County	Ushba N	Mautas 00240)	· · ·	
Previous Operator(s):	Phone Number:	3-9174	•		``
Is the pit permitted: Yes No Unit Letter: L Section: 21 Township: 21S Range: 36E County: Lea County					
Unit Letter: L Section: 21 Township: 21S Range: 36E County: Lea County					
County: Lea County ocation Name _Funice=Monument=Fumont_Salt_Water_Disposal_Well L=21 Number of wells to the pit: System Terminal Tanks (Varies) Are the wells to the pit: operated by one operator or multiple operators if Total daily volume (in barrels) to the pit: 1,500 Pit Type: 2-Below ground redwood terminal tanks [Emergency Production: Workows: Reserve/Dollingingster than 6 souths old).Fue. Bordows. Sepanae: Dehydrase: Lee Day, BS& WTank Bosows: Compresser Projet Weddows. or other: What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt(production water) Pit age (years):35 Is the pit lined [2] or unlined [] Type of liner (None, Synthetic, Clay) : Redwood tank resting on concrete pad Is leak detection present: Yes [2] No [] Observation boxes around tanks Is the pit netted: Yes [3] No [] Covered with redwood top Pit dimensions (LxWxD): <u>two-28' diaX8'Ht</u> CERTIFICATION kereby certify that the information submitted is the and correct to the best of my knowledge and belief. Name	Unit Letter: L Section: 21	Township: 21S	36E		
Number of wells to the pit: System Terminal Tanks (Varies) Are the wells to the pit operated by one operator if or multiple operators if it is to the pit operated by one operator or multiple operators if it is in the pit of the pit: 1,500 Pit Type: 2-Below ground redwood terminal tanks Emergency. Production. Workover. Restree/Drilling(greater than 6 months old). Plan. Blowdown. Separator. Dehydrator. Line Drip. BS& W/Tank Bonows. Compressor. Piging. Waddows. or other? What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water) Pit age (years): 35		· <u></u>			
Number of wells to the pit: <u>System Terminal</u> Tanks (Varies) Are the wells to the pit operated by one operator or multiple operators Total daily volume (in barrels) to the pit: <u>1,500</u> Pit Type: <u>2-Below ground redwood terminal tanks</u> Pit Type: <u>2-Below ground redwood terminal tanks</u> Emergency. Production. Workover. Reserve/Drillinggraser thas 6 months old). Par. Bowdown. Separator. Dehydrator. Line Drip. BSG. W/Taak Bosown. Compresse: Aging. Wishdown. or other? What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): <u>Exempt(production water)</u> Pit age (years): <u>35</u> Is the pit lined or unlined Type of liner (None, Synthetic, Clay): <u>Redwood tank res</u> ting on concrete pad Is leak detection present: Yes No Observation boxes around tanks Is the pit netted: Yes No Covered with redwood top Pit dimensions (LxWxD): <u>two-28' diaX8'Ht</u> CERTIFICATION kereby certify that the information submitted is true and correct to the best of my knowledge and belief. Name <u>Roger Hall</u> <u>Operations Engineer</u>	ocation Name:Eunice_M	Monument-Fumont	Salt Water Dispo	sal Well L-21	
Total daily volume (in barrels) to the pit: <u>1,500</u> Pit Type: <u>2-Below ground redwood terminal tanks</u> (Emergency, Production, Workower, Reserve/Dilling greater than 6 months old). Flat. Blowdown, Seperator, Dehydratoe Line Drip, BS& W/Tank Bonome, Compresson, Piging, Weddown, or other? What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt(production water) Pit age (years): <u>35</u> Is the pit lined [2] or unlined [] Type of liner (None, Synthetic, Clay): <u>Redwood tank res</u> ting on concrete pad Is leak detection present: Yes [2] No [] Observation boxes around tanks Is the pit netted: Yes [2] No [] Covered with redwood top Pit dimensions (LxWxD): <u>two-28'diaX8'Ht</u> CERTIFICATION wereby certify that the information submitted is true and correct to the best of my knowledge and belief. Name: <u>Roger Hall</u> <u>Divition</u> <u>Divitio</u>			-		
Pit Type: 2-Below ground redwood terminal tanks (Emergency, Production, Workover, Restrive/Drilling/greater that 6 months old). Plan, Blowdown, Separator, Dehydrator, Law Drip, BSG: W/Tank Bottown, Compresser, Piging, Wahdown, or other? What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water) Pit age (years): 35	Are the wells to the pit operat	ed by one operator 🔲 🤅	or multiple operators 😰		
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Pit age (years):	(Emergency, Production, Workover, 1	Reserve/Drillingigresser than	6 months old).Fase. Blowd	owa. Seperator. Dehydratoc	· · · ·
Pit age (years):	What types of wastes are accept	sted in the pit (Exempt,	, Non-exempt, Both, No	ne): <u>Exempt(production</u>	water)
Type of liner (None, Synthetic, Clay): Redwood tank resting on concrete pad Is leak detection present: Yes No Observation boxes around tanks Is the pit netted: Yes No Covered with redwood top Pit dimensions (LxWxD): two-28'diaX8'Ht CERTIFICATION vereby certify that the information submitted is true and correct to the best of my knowledge and belief. Name: Title: Operations Engineer					
Is leak detection present: Yes No Observation boxes around tanks Is the pit netted: Yes No Ocovered with redwood top Pit dimensions (LxWxD): two-28'diaX8'Ht CERTIFICATION vereby certify that the information submitted is true and correct to the best of my knowledge and belief. Name Operations Engineer Name	Is the pit lined 🚺 or unlined				
Is leak detection present: Yes No Observation boxes around tanks Is the pit netted: Yes No Ocovered with redwood top Pit dimensions (LxWxD): two-28'diaX8'Ht CERTIFICATION vereby certify that the information submitted is true and correct to the best of my knowledge and belief. Name Operations Engineer Name	Type of liner (None, Synthetic	Clay): Redwood t	ank resting on c	oncrete pad	
Pit dimensions (LxWxD): <u>two-28'diaX8'Ht</u> CERTIFICATION vereby certify that the information submitted is true and correct to the best of my knowledge and belief. Roger Hall Name					
CERTIFICATION vereby certify that the information submitted is true and correct to the best of my knowledge and belief. Roger Hall Name	Is the pit netted: Yes 🚺 No []Covered with r	edwood top		
Name	Pit dimensions (LxWxD):	-28'diaX8'Ht		,	
Roger Hall Operations Engineer Name	CERTIFICATION				
Signature / Train Sall Date 10/3 /97	Roger Hall	stion submitted is true	Operatio	ns Engineer	_

A pit to defined as any below grade or surface feature which receives any materials other than fresh water

4

<u>Firurist I</u> - (505) 393-4 P. O. Box 1980 Hobbs, NM \$8241-198 <u>District II</u> - (505) 748- 811 S. Part Arussin, NM \$8210 <u>District III</u> - (505) 334 1000 Rio Bazos Road Azusz, NM \$7410 <u>District IV</u> - (505) 827	0 Energy Miner 1283 (-6178	New Me als and Natura Dil Conservatio 2040 South Pad Santa Fe, New M (505) 827-	Il Resources Department on Division heco Street exico 87505	Originated 6/27/97 Submet Original Plue 1 Copy to Santa Fe
		PIT INVENTO	PYEOPM	
	RICE OPERATING COM			
Operator:	122 WEST TAYLOR			
Address:	Hobbs, New Mexico	88240	······································	· · · · · · · · · · · · · · · · · · ·
Phone Number:	(505) 393-9174			
Previous Operato	or(s): <u>None</u>			
Is the pit permit	ted: Yes 🚺 No 🗌			
Unit Letter:	Section: 21Township:	215 Range:	36E	
County:				·
Location Name:	EME Salt Water Dis	posal System	Well L-21	
Number of wells	to the pit:1			
Are the wells to t	he pit operated by one opera	ator 🖾 or multiple	operators	
Total daily volun	ne (in barrels) to the pit:	None	_	
Pit Type:	Emergency	······································		<u> </u>
	ion, Workover, Reserve/Drillington unk Bottoms, Compremor, Pigging,		ld).Fax. Blowdown, Seperator, Dehydrator,	
What types of wa	ustes are accepted in the pit ()	Exempt, Non-exem	Exempt(production):	tion water)
Pit age (years): _		•	• • • • • • • • • • • • • • • • • • •	
Is the pit lined] or unlined 🕅			
Type of liner (No	ne, Synthetic, Clay) :N	one		
Is leak detection	present: Yes 🗌 No 🙀			
Is the pit netted:	Yes 🔲 No 🖄			
Pit dimensions (L	xWxD): <u>51'X17'X2¹</u>			
CERTIFICATION	I			
A hereby certify th	at the information submitted	is true and correc	I to the best of my knowledge and beli	ef.
Name	Roger Hall	Title	Operations Engineer	
Signature:	Progen Hall	Date:	10/28/97	
—	\mathcal{O}		· /	

Submit	4 Copies
to Appr District	opraile
District	Office

DISTRICT P.O. Box 1980, Hobbs, NM 88241-1980

ISTRICT II O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico .nergy, Minerals and Natural Resources Der Form C-134 Aug. 1, 1989

OIL CONSERVATION DIVISION

.At

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Permit No.

(For Division Use Only)

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952 FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule711(h)

Operator Name: Rice Engineering Corporation

Operator Address: 122 W. Taylor, Hobbs, New Mexico 88240

Lease or Facility Name_E-M-E SWD System Well L-21 21 21S 36E Location Ut. Ltr. Sec. Twp. Rae Size of pit or tank: 51'x17'x2¹/₂' deep, approx. 400 bbls.

Operator requests exception from the requirement to screen, net or cover the pit or tank at the above-described facility.

х The pit or tank is not hazardous to migratory waterfowl. Describe completely the reason pit is non-hazardous.

The pit is used only in emergencies such as major well remedial work.

Normally kept empty.

If any oil or hydrocarbons should reach this facility give method and time required for removal: 1)

Method: Vacuum truck

Time: Within 24 hrs. of discovery

If any oil or hydrocarbons reach the above-described facility the operator is required to notify the 2) appropriate District Office of the OCD with 24 hours.

Operator proposes the following alternate protective measures:

CERTIFICATION BY OPERATOR: I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature 1

Printed Name S. A. Haktanir

Title Division Manager Date July 25, 1990

Telephone No. 393-9174

FOR OIL CONSERVATION DIVISION USE	
Date Facility Inspected 8 2 90	Approved by Clin W Asan Title DIL & GASS
· · · · · · · · · · · · · · · · · · ·	Date SFP () 5 in ()



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

June 1, 1999

CERTIFIED MAIL RETURN RECEIPT NO. Z 357 870 131



Carolyn Doran Haynes Rice Operating Company 122 West Taylor Hobbs, NM 88240

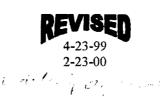
Re: Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks (Generic Closure Work Plan) for Rice Operating Company's saltwater disposal system facilities.

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) has reviewed Rice Operating Company's (ROC) closure work plans dated March 22, 1999 and revisions to the plans dated April 23, 1999 for the saltwater disposal system facilities. The NMOCD Hereby approves the plans subject to the following conditions:

- 1. ROC shall complete all monitor well(s) as follows:
 - a. At least 15 feet of well screen shall be placed across the water table interface with 5 feet of the well screen above the water table and 10 feet of the well screen below the water table.
 - b. An appropriately sized gravel pack shall be set in the annulus around the well screen from the bottom of the hole to 2-3 feet above the top of the well screen.
 - c. A 2-3 foot bentonite plug shall be placed above the gravel pack.
 - d. The remainder of the hole shall be grouted to the surface with cement containing 3-5% bentonite.
 - e. A concrete pad shall be placed at the surface around the well. The well shall be installed with a suitable protective locking device.
 - f. The well(s) shall be developed after construction using EPA approved procedures.

Closure Plan for Permitted Emergency Pits



- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Remove and properly dispose of visibly contaminated soil pursuant to NMOCD guidelines.
- 3. Procure soil samples from surface and 3' below excavation bottom and excavation sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 6.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 4.
- 4. Delineate any portion of excavation that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 5.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 5. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing
- 6. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 7. Procure random 5-point composite bottom sample and random 4-point composite side sample for laboratory TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 9.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 8.
- 8. Evaluate site for risk assessment: delineate to assess depth and horizontal extent of impact corresponding to NMOCD guidelines for site assessment value; excavate bottom and sides as practical to minimize risk; install compacted clay liner to meet or exceed 95% of a Proctor Test ASTM-D-698 with permeability (hydraulic conductivity) equal or less than 1x10⁻⁷ cm/sec for containment/isolation of impact.
- 9. Discuss results/risk assessment with NMOCD for verbal approval to proceed with backfill.
- 10. Apply to NMOCD for closure of permitted emergency pit site per NMOCD guidelines and site results.

Ms: Haynes June 1, 1999 Page 3

- e. Summary tables of all soil and/or ground water quality sampling results and copies of all laboratory analytical data sheets and associated QA/QC data collected.
- f. The quantity and disposition of all wastes generated.

Please be advised that NMOCD approval of this plan does not relieve ROC of liability should their investigations and/or operations fail to adequately investigate and/or remediate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve ROC of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs Office

RICE *Operating Company*

122 West Taylor • Hobbs, NM 88240 Phone: (505) 393-9174 • Fax: (505) 397-1471

April 23, 1999

Mr. Wayne Price NM Energy, Minerals and Natural Resources Department Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

Re: Revision of Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks

Mr. Price:

Enclosed are the revised Closure Plans for Below Grade Redwood Tanks and for Permitted Emergency Pits. The revisions concern changes in items #3B, #8 and #10 for the Below Grade Redwood tanks and items #4B, #6 and #8 for the Permitted Emergency Pits, as directed by our telephone conversation of April 22, 1999, and your subsequent e-mail.

It is important to reiterate that **all activities** pertaining to closure of emergency pits and replacement of the redwood tanks will be conducted **pursuant to NMOCD guidelines**. All site assessments, work plans, time schedules, sample and test plans, impacted soil removal, replacement tankage and facilities, etc., will be specifically fitted to the particular site applying for closure but will generally follow these generic plans. NMOCD will be notified in advance of significant occasions and will be consulted throughout the closure process for concurrence of plan alterations, assessment and analytical interpretations, etc.

Also enclosed are preliminary generic drafts of the open, below-ground-level replacement tank facility that you requested. The elevation of the collection vessel is vital to the system's gravity-flow capability, and in most cases, the replacement tank facility must remain at the same lower-than-surface elevation as the redwood tanks. Each site will be assessed for elevation limitations and the replacement facility will be designed accordingly. Rice Operating Company proposes to contain new tanks and piping within a concrete, sealed and frequently inspected (for integrity) vault-like enclosure, thus insuring future impact minimization to the environment and the public.

Thank you,

Carolin Doran Haynes

Carolyn Doran Haynes Operations Engineer

Enclosures Cc KH; JC; file; Ms. Donna Williams, OCD District I, Hobbs, NM

RICE Operating Company

122 West Taylor • Hobbs, NM 88240 Phone: (505) 393-9174 • Fax: (505) 397-1471

March 22, 1999

Mr. Wayne Price NM Energy, Minerals and Natural Resources Department Oil Conservation Division, Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

Re: Closure Work Plan for Existing Pits and Below-Grade Redwood Tanks

Mr. Price:

Enclosed are copies of emergency pit permits and below grade redwood tank installations for our operations in Lea County, New Mexico, that were previously submitted to NMOCD in October, 1997. This documentation serves as a list of facilities operated by Rice Operating Company (ROC) that contain or have contained pits or below grade tanks.

Closure plans for two locations, F-29 and H-35, are in process with the OCD now. The generic "Closure Plan for Below Grade Redwood Tanks" detailed below will accommodate the systematic closure of existing ROC operated below-grade redwood tanks. The existing emergency pits will be closed pursuant to the generic "Closure Plan for Permitted Emergency Pits", also detailed below. It is expected that at facilities containing both, the below-grade redwood tank (s) and the emergency pit will be closed at the same time, but under separate closure plans and closure reports.

Rice Operating Company is the service provider (operator) for these salt-water disposal systems in SE NM. Rice Operating has no ownership of any of the pipelines, wells, or facilities. Each system is owned by a consortium of oil producers and they are called "System Partners," and the System Partners provide all operating capital on a percentage ownership/usage basis. Each location will independently require System Partner AFE approval and advance billing for the closure funds. Only after funds are received can closure work begin.

Thank you,

COPY

Carolyn Doran Haynes Operations Engineer

Cc KH; JC; file; Ms. Donna Williams, OCD District I, Hobbs, NM

4-23-99

Closure Plan for Below Grade Redwood Tank

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Procure soil samples from 3' below bottom of tanks (9-11' below grade) at tank sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 4.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 3.
- 3. Delineate any portion of tank site that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 4.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 4. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing.
- 5. Move onto SWD facility site with temporary tank system. Re-route fluid flow from below grade redwood tanks into the temporary tank system. Plumb to SWD well.
- 6. Empty and clean redwood tanks, properly disposing of any BS & W. Excavate sides of redwood tanks to allow for working space to manipulate tank support banding. Remove redwood tanks reserving boards for proper disposal.
- 7. Excavate ramp into redwood tank hole. Remove and properly dispose of concrete base.
- 8. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 9. Procure random 5-point composite bottom sample from 3'below tank bottom and random 4point composite side sample for lab TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 11.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 10.
- 10. Evaluate site for risk assessment: propose to excavate hole bottom and sides as practical to minimize risk; install 40-mil polyethylene liner on sanded bottom, graded to direct moisture accumulation away from the impacted area; cover and compact bottom with 2' sand fill.
- 11. Apply to NMOCD for closure of redwood tank site per NMOCD guidelines and site results.
- 12. After approval is received, proceed with installation of new fiberglass or steel tanks and appropriate plumbing changes within engineered secondary containment system.

Closure Plan for Permitted Emergency Pits

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Remove and properly dispose of visibly contaminated soil pursuant to NMOCD guidelines.
- 3. Procure soil samples from surface and 3' below excavation bottom and excavation sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 6.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 4.
- 4. Delineate any portion of excavation that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 5.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for Chloride and BETX levels. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 5. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing
- 6. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 7. Procure random 5-point composite bottom sample and random 4-point composite side sample for laboratory TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 9.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 8.
- 8. Evaluate site for risk assessment. Excavate bottom and sides to a depth and width that is deemed practical by soil analytical results. Install a 40-mil polyethylene liner on bottom, graded to provide water run-off away from the contamination left in place below the liner; cover and compact over the liner with 1-2' of sand fill.
- 9. Apply to NMOCD for closure of permitted emergency pit site per NMOCD guidelines and site results.
- 10. After approval is received, proceed with backfill and grading of pit site with clean soil and/or appropriately blended soil compatible with the on-site soil.

Closure Plan for Below Grade Redwood Tank

2-23-00 amart. Tom

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Procure soil samples from 3' below bottom of tanks (9-11' below grade) at tank sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 4.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 3.
- 3. Delineate any portion of tank site that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 4.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 4. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing.
- 5. Move onto SWD facility site with temporary tank system. Re-route fluid flow from below grade redwood tanks into the temporary tank system. Plumb to SWD well.
- 6. Empty and clean redwood tanks, properly disposing of any BS & W. Excavate sides of redwood tanks to allow for working space to manipulate tank support banding. Remove redwood tanks reserving boards for proper disposal.
- 7. Excavate ramp into redwood tank hole. Remove and properly dispose of concrete base if impacted. If concrete is not impacted, use as fill (below plow depth) in excavation area.
- 8. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 9. Procure random 5-point composite bottom sample from 3'below tank bottom and random 4-point composite side sample for lab TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 11.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 10.
- 10. Evaluate site for risk assessment: delineate to assess depth and horizontal extent of impact corresponding to NMOCD guidelines for site assessment value; excavate bottom and sides as practical to minimize risk; install compacted clay liner to meet or exceed 95% of a Proctor Test ASTM-D-698 with permeability (hydraulic conductivity) equal or less than 1x10⁻⁷ cm/sec for containment/isolation of impact.
- 11. Discuss results/risk assessment with NMOCD for verbal approval to proceed with backfill/installation of new tanks and plumbing within engineered secondary containment system.
- 12. Apply to NMOCD for closure of redwood tank site per NMOCD guidelines and site results.

Ms: Haynes June 1, 1999 Page 2

- 2. No less than 48 hours after the well(s) are developed, ground water from all monitor well(s) shall be purged, sampled and analyzed for concentrations of benzene, toluene, ethyl benzene, xylene, polycyclic aromatic hydrocarbons (PAH's), total dissolved solids (T.S.) and New Mexico Water Quality Control Commission (WQCC) metals and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC) procedures.
- 3. ROC shall notify OCD pursuant to Rule 116 upon discovery of groundwater contamination.
- 4. All final soil samples submitted for laboratory analyses shall be sampled for BTEX (8021), TPH (418.1 or 8015 GRO & DRO) and Chlorides.
- 5. ROC will notify the OCD Santa Fe office and the OCD District office at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples during OCD's normal business hours.
- 6. ROC is required to sample and provide to NMOCD the analytical test results for each side wall and bottom of any excavated areas. The samples taken shall be tested for BTEX (8021), TPH and Chlorides. Composite samples will be allowed if there are no obvious hot spots. TPH methods can be EPA 418.1, or 8015 if both GRO and DRO are ran. All sampling and testing shall be pursuant to approved EPA methods and procedures.
- 7. All wastes generated during the investigation shall be disposed of at an OCD approved site.
- 8. ROC shall submit a report of the investigations to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office. ROC must receive NMOCD approval before commencing backfilling, liner or new equipment installations. The report shall include the following:
 - a. A description of all investigations, remediation and monitoring activities which have occurred including conclusions, recommendations, risk assessments and request for implementation of any future work and/or closure.
 - b. A geologic/lithologic log and well completion diagram for all soil borings and/or monitor well(s).
 - c. Vertical and horizontal Isopleth maps for remaining contaminants of concern which were observed during the investigations.