

1R - 223

# APPROVALS

YEAR(S):

CLOSED

## Price, Wayne

---

**From:** Price, Wayne  
**Sent:** Saturday, November 17, 2001 12:58 PM  
**To:** 'riceswd@leaco.net'  
**Subject:** Rice SWD C-2 Blinebry Drinkard Pit Closure report

**Contacts:** Carolyn Doran Haynes

Dear Ms. Haynes:

The OCD is in receipt of the closure report dated May 30, 2000 for the above subject system. Please note the report has some excellent documentation and it appears there is no shallow groundwater directly below the site. OCD had a difficult time in cross-referencing the analytical samples taken to the report. Please correct this for all future submittals. **The OCD hereby approves of this closure report and requires no further action.**

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

**RICE** *Operating Company*

RECEIVED

JUN 17 2000  
Environmental Bureau  
Oil Conservation Division

BLINEBRY DRINKARD  
SALT WATER DISPOSAL SYSTEM  
SWD FACILITY C-2

REDWOOD TANK REPLACEMENT  
EMERGENCY OVERFLOW PIT CLOSURE

Rice Operating Company  
122 W. Taylor  
Hobbs, NM 88240

# **RICE** Operating Company

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

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z 577 009 789**

May 30, 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-69)**  
**CLOSURE REPORT FOR BD SWD FACILITY C-2**  
Unit Letter C, Sec. 2, T22S, R37E  
Lea County, New Mexico

Mr. Price:

Rice Operating Company (ROC) appreciates the consideration of the NMOCD concerning the generic closure plan revisions for the emergency overflow pits and below-grade redwood tanks. At this time, based on this closure report, ROC petitions the NMOCD for closure of Pit Permit # H-69 and the below-grade redwood tanks at the Blinbry Drinkard (BD) Salt Water Disposal Site SWD Well C-2, located in Unit C, Sec. 2, T22S, R37E, Lea County, NM.

ROC is the service provider (operator) for the BD Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The BD 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 C-2 Facility was approved by the System Partners and work was started in April 1999.

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 less than 50 feet below ground surface (BGS). Groundwater at this site is more than 80' BGS and estimated to be much more than 100' BGS due to an immensely thick (50+ ft.) red-bed layer found before any ground water was encountered.

The source of contamination has been removed and the impacted soil has been excavated to delineation of <100ppm TPH. Borings were done to delineate the chloride impact and the chloride impact was found to peak at 35' BGS and then decrease to < 250 ppm at 50-60' BGS.

RECEIVED  
JUN 12 2000  
Environmental Bureau  
Oil Conservation Division

At 80' BGS chlorides were laboratory-verified to be <100 ppm. The highly impacted soil (about 20%) 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, and < 1000 ppm Cl. A compacted clay layer was installed in the bottom of the excavation to prevent downward migration of contaminants and the blended soil was used to backfill. Natural attenuation will remediate the TPH in the backfill soil.

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 C-2 Facility and is submitting the Pit Remediation and Closure Final Report and supplemental collected data. Thank you for your consideration of this closure request.

If you have any questions, please call.

RICE OPERATING COMPANY



Carolyn Doran Haynes  
Operations Engineer

Enclosures      Pit Remediation and Closure Report C-2 Facility  
                     State Land Office Lease Copy  
                     Pit Inventory Permit H-69  
                     Pit Inventory Forms  
                     Generic Closure Work Plans – 3<sup>rd</sup> 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

# **RICE Operating Company**

122 West Taylor · Hobbs, NM 88240

Phone: (505) 393-9174 · Fax: (505) 397-1471

## **EXECUTIVE SUMMARY**

Rice Operating Company (ROC) began the remediation of the Blinebry Drinkard SWD C-2 Facility in April 1999. The C-2 Facility is a brine disposal facility using two 21.5' diameter below-grade redwood flow-through collection tanks, an injection well and related piping.

### **Preliminary Site Preparation**

Prior to the start of remediation activities, ROC set a temporary tank system, dismantled the redwood tanks and removed the concrete bases. The obviously highly impacted soil surrounding the tanks and in the bottom of the emergency overflow pit was removed and hauled to Sundance Parabo for disposal. RE Environmental of Midland, TX was the successful bidder for the soil remediation work. RE began excavation February 28, 2000.

### **Remediation Detail**

Excavation at the site resulted in a side-shored, L-shaped, ravine with a bottom depth of 22-28' BGS. Additional delineation trenching was done in two places to a depth of about 48' BGS. Red-Bed clay was encountered at about 31' BGS.

Pinpoint as well as composite sampling was conducted. Donna Williams of the Hobbs Office of NMOCD was notified of major sampling events. RE Environmental and ROC conducted field TPH and Chloride testing. Cardinal Labs of Hobbs and Environmental Labs of Texas performed TPH, BTEX, and Chloride testing (test results and chain of custody documents are provided within this report.) Bottoms and sides of all the excavation "steps" were excavated to NMOCD pit closure guidelines for a site assessment of 20 points: below 100 ppm TPH, 50 ppm BTEX, and 10 ppm Benzene. A clay layer was installed to prevent moisture percolation and migration of contaminants downward. Density of the clay layer was verified by Pettigrew and Associates (results included within this report).

The excavation was then backfilled with blended soil. Composite samples were collected at each lift. The site was contoured to prevent moisture accumulation within the excavation boundary.

Chlorine boring delineation was done May 4, 2000, by Eades Drilling and Pumping Service with Whole Earth as on-site environmental consultants. The red-bed was found at 31' BGS and continued on through 80' BGS (where boring was stopped). No groundwater was encountered. Field and laboratory tests confirmed that chloride impact dissipated to <250 ppm at 50- 60' BGS. The boreholes were properly plugged with bentonite by Eades Drilling.

The new tank facility is located in the NW quadrant of the fenced area. A 30-mil polyethylene liner provides secondary containment for the two 21.5' diameter flow-through fiberglass tanks. A 21.5' diameter fiberglass overflow tank replaces the emergency overflow pit.

**R.E. ENVIRONMENTAL SERVICES INC.**

**P.O. BOX 13418 ODESSA TX. 79768-3418 (915) 550-8522**

**CUSTOMER: Rice Operating**

**LOCATION: Blinebry-Drinkard SWD C-2**

**INVOICE #: 7712,7713,7714,7715,7716,7717,7718,  
7721,7722,7723,7724,7725,7726,7727,7728,7729,7738,  
7739,7745,7746,7747,7752**

**WORK ORDER #: N/A**

**DATE STARTED: 2-28-00**

**DATE COMPLETED: 3-31-00**

**TOTAL CU. YDS: 16,441**

**R.E. ENVIRONMENTAL SERVICES, INC.**

P.O. BOX 13418 ODESSA, TEXAS 79768-3418 (915) 550-8522

Enclosed you will find a complete remediation summary for closure of the Blinebry-Drinkard SWD C-2 System. This summary includes a plat map of the location, test points, hydrocarbon test results, chloride test results, and photographs.

Remediation of the site began on February 28, 2000 removing all contaminated soil in both pits that was greater than 100 ppm TPH. Contaminated soil was then blended down to less than 1000 ppm TPH. Both pits were excavated to a depth of 27', chloride test were ran on each pit, both were dug to a depth of 48' to 52' with a track-hoe to get vertical test results. The pits were shored per OSHA and then pushed in to slope pits so clay could be put down. 18" of clay was laid in both pits and compacted for test. Five test were performed and results were as follows T1-103, T2-103.4, T3-103.9, T4-102.7, T5-106. The area was then back-filled at 3' lifts and tested. The area was then leveled and surface tests were performed. In closing 16,441 cubic yards was blended on site for backfill. The site was completed on March 31, 2000.

Sincerely,



Jerry Cagle

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

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: <u>RICE OPERATING COMPANY</u> Telephone: <u>505-393-9174</u>										
Address: <u>122 West Taylor, Hobbs, NM 88240</u>										
Facility or: <u>Blinebry Drinkard SWD C-2</u> Well Name _____										
Location: Unit or Qtr/Qtr Sec <u>C</u> Sec <u>2</u> T <u>22S</u> R <u>37E</u> County <u>LEA</u>										
Pit type: <u>Emergency Overflow Pit Permit # H-69; 2-Below-grade Redwood Tanks (not permitted)</u>										
Land Type: BLM _____ State <u>XX</u> Fee _____ Other _____										
Pit Location Pit Dimensions: length <u>127'</u> width <u>38'</u> depth <u>7'</u> (Attach diagram)										
Reference: wellhead <u>YES</u> other _____										
Footage from reference: <u>NW Corner of pit is ~ 63' East then 69' North of Wellhead C-2</u>										
Direction from reference: _____ Degrees _____ East North _____ of _____ West South _____										
<b>Depth to Ground Water</b> (Vertical distance from contaminants to seasonal high water elevation of ground water)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Less than 50 feet</td> <td style="width: 20%;">(20 points)</td> <td style="width: 30%;"></td> </tr> <tr> <td>50 feet to 99 feet</td> <td>(10 points)</td> <td></td> </tr> <tr> <td>Greater than 100 feet</td> <td>( 0 points)</td> <td style="text-align: right;"><u>10</u></td> </tr> </table>	Less than 50 feet	(20 points)		50 feet to 99 feet	(10 points)		Greater than 100 feet	( 0 points)	<u>10</u>
Less than 50 feet	(20 points)									
50 feet to 99 feet	(10 points)									
Greater than 100 feet	( 0 points)	<u>10</u>								
<b>Wellhead Protection Area</b> (Less than 200 feet from a private domestic water source, or, less than 1000 feet from all other water sources)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Yes</td> <td style="width: 20%;">(20 points)</td> <td style="width: 30%;"></td> </tr> <tr> <td>No</td> <td>( 0 points)</td> <td style="text-align: right;"><u>0</u></td> </tr> </table>	Yes	(20 points)		No	( 0 points)	<u>0</u>			
Yes	(20 points)									
No	( 0 points)	<u>0</u>								
<b>Distance to Surface Water:</b> (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Less than 200 feet</td> <td style="width: 20%;">(20 points)</td> <td style="width: 30%;"></td> </tr> <tr> <td>200 feet to 1000 feet</td> <td>(10 points)</td> <td></td> </tr> <tr> <td>Greater than 1000 feet</td> <td>( 0 points)</td> <td style="text-align: right;"><u>0</u></td> </tr> </table>	Less than 200 feet	(20 points)		200 feet to 1000 feet	(10 points)		Greater than 1000 feet	( 0 points)	<u>0</u>
Less than 200 feet	(20 points)									
200 feet to 1000 feet	(10 points)									
Greater than 1000 feet	( 0 points)	<u>0</u>								
<b>RANKING SCORE (TOTAL POINTS):</b> <u>10</u>										

Date Remediation Started: December, 1999 Date Completed: May 4, 2000

Remediation Method: Excavation YES Approx. cubic yards 16500  
(Check all appropriate sections) Landfarmed YES In-situ Bioremediation \_\_\_\_\_

Other Commercial Landfarm ~900 lcy  
TPH in backfill soil will remediate with natural attenuation. Chlorides are immobilized by preventing downward migration of moisture with a clay barrier.

Remediation Location: Onsite Blended for backfill material <1000 ppm TPH Offsite Sundance Parabo, Eunice, NM  
(ie.: landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Cleaned and dismantled below-grade redwood tanks and concrete bases.

Excavated and disposed of highly impacted soil at the redwood site and the overflow pit site. Excavation continued until bottoms and sidewalls of sites measured < 100ppm TPH. Excavation was then covered with a compacted clay-layer, excavated soil blended < 1000ppm TPH and sampled by lift as backfill progressed.  
Bored to delineate chlorides: <250ppm @ 60' BGS, <100ppm @ 80' BGS. Red-Bed clay @ 31-80+' BGS.  
TPH above the clay layer will remediate with natural attenuation. Chlorides are immobilized by preventing downward migration. Test results and color photo reproductions are included in this closure package.

Ground Water Encountered: No NO Yes \_\_\_\_\_ Depth >80', estimated >>100'

Final Pit Closure Sampling (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location See attached diagrams. All analytical reports, CoC, etc., are included in the accompanying closure package submitted with this report.

Sample depth various

Sample date March 6, 2000; May 4, 2000 Sample time \_\_\_\_\_

Sample Results  
Benzene (ppm) all < 0.005mg/kg  
Total BTEX (ppm) all components were < 0.015mg/kg;  
Field headspace (ppm) \_\_\_\_\_  
TPH final bottoms, sides <100ppm. Blended fill average: <500 ppm TPH

Ground Water Sample: Yes \_\_\_\_\_ No XX (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE MAY 30, 2000 PRINTED NAME CAROLYN DORAN HAYNES

SIGNATURE Carolyn Doran Haynes TITLE OPERATIONS ENGINEER

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

**OIL CONSERVATION DIVISION**  
2040 South Pacheco  
Santa Fe, NM 87505

WELL API NO. 30-025-24399

5. Indicate Type of Lease  
STATE  FEE

6. State Oil and Gas Lease No.

7. Lease Name or Unit Agreement Name:  
Blinebry Drinkard Salt Water  
Disposal System

8. Well No. C-2

9. Pool Name or Wildcat

**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.)  
1. Type of Well  
Oil Well  Gas Well  Other  Emergency Overflow Pit and Below-Grade Redwood Tanks

2. Name of Operator Rice Operating Company

3. Address of Operator 122 West Taylor  
Hobbs, NM 88240

4. Well Location  
Unit Letter C : 660 feet from the NORTH line and 2305 feet from the WEST line  
Section 2 Township 22South Range 37East NMPM Lea County, NM

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3360' above sea level

**11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data**

**NOTICE OF INTENTION TO:**

- PERFORM REMEDIAL WORK  PLUG AND ABANDON
- TEMPORARILY ABANDON  CHANGE PLANS
- PULL OR ALTER CASING  MULTIPLE COMPLETION
- OTHER:

**SUBSEQUENT REPORT OF:**

- REMEDIAL WORK  ALTERING CASING
- COMMENCE DRILLING OPNS.  PLUG AND ABANDONMENT
- CASING TEST AND CEMENT JOB
- OTHER  Close Emergency Overflow Pit and Replace Redwood Tanks

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Delineate site for contamination, remove redwood tanks, close emergency overflow pit (Pit Permit # H-69) and clean-up location pursuant to NMOCD guidelines. Replace redwood tanks with fiberglass tanks within a poly-lined secondary-containment berm. Work accomplished under OCD approved generic closure plan.

Information from the State Engineer's Office in Roswell estimated depth to groundwater at 60-68' and indicate closest water well to be in Unit Letter "P" of Section 2, T22S, R37E, which is more than 1000' from the facility at Well C-2. A site review indicated no water sources or water bodies within 1000' of the C-2 facility. Delineation boring proved red-bed clay from 31' BGS to 80' BGS and continuing on to an undefined depth, with no encounter of groundwater. Eades Drilling estimated after encountering 50' of red-bed that the nearest groundwater under this site would be much greater than 100' BGS. Final bottom and side sampling before installing the clay layer: TPH <100ppm; BTEX <50ppm; Benzene <10ppm.

Depth to GW: 50-99' = 10 No water source within 1000' = 0 >1000' to surface water body = 0 **Site Assessment = 10**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

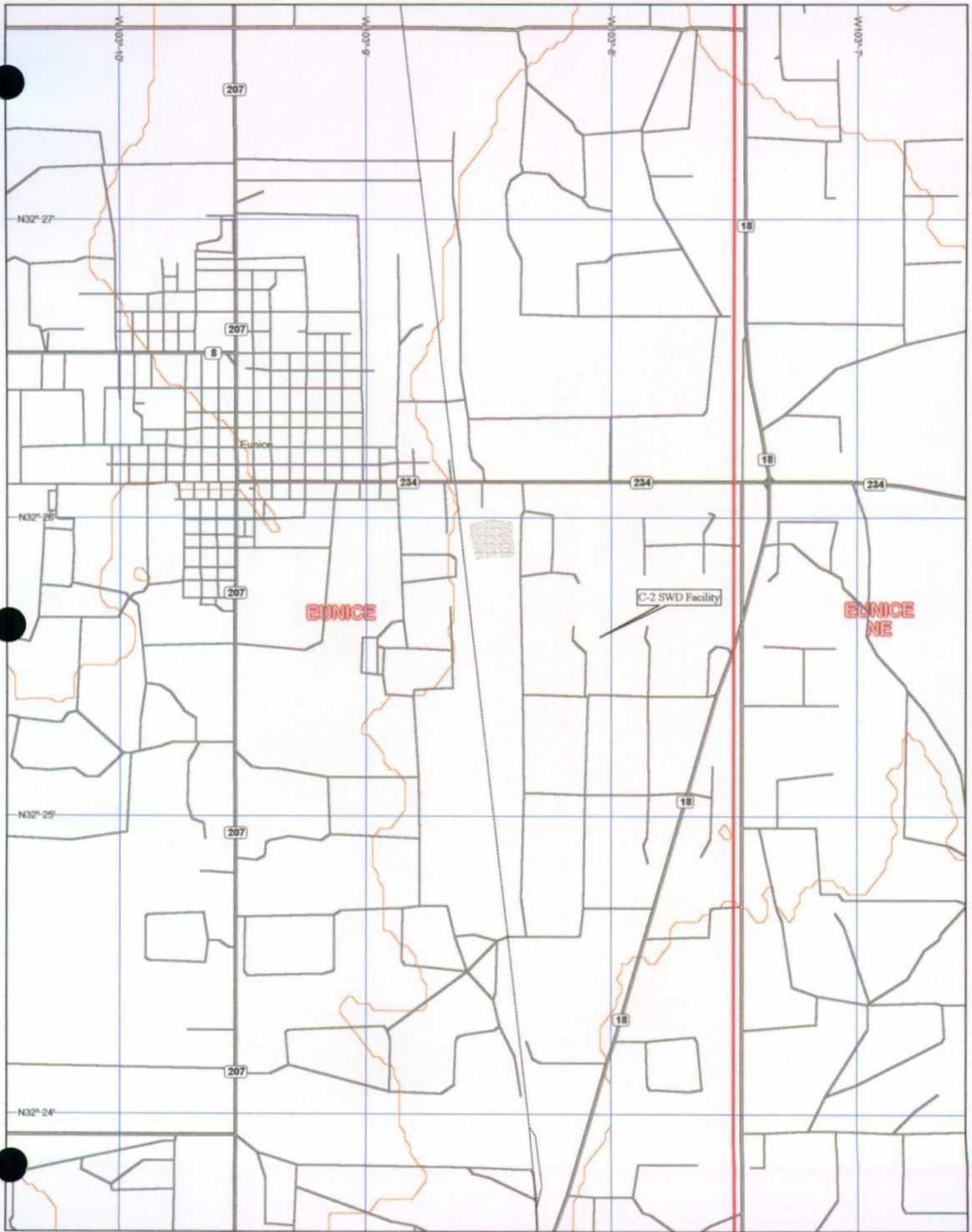
SIGNATURE Carolyn Doran Haynes TITLE OPERATIONS ENGINEER DATE 5/30/00

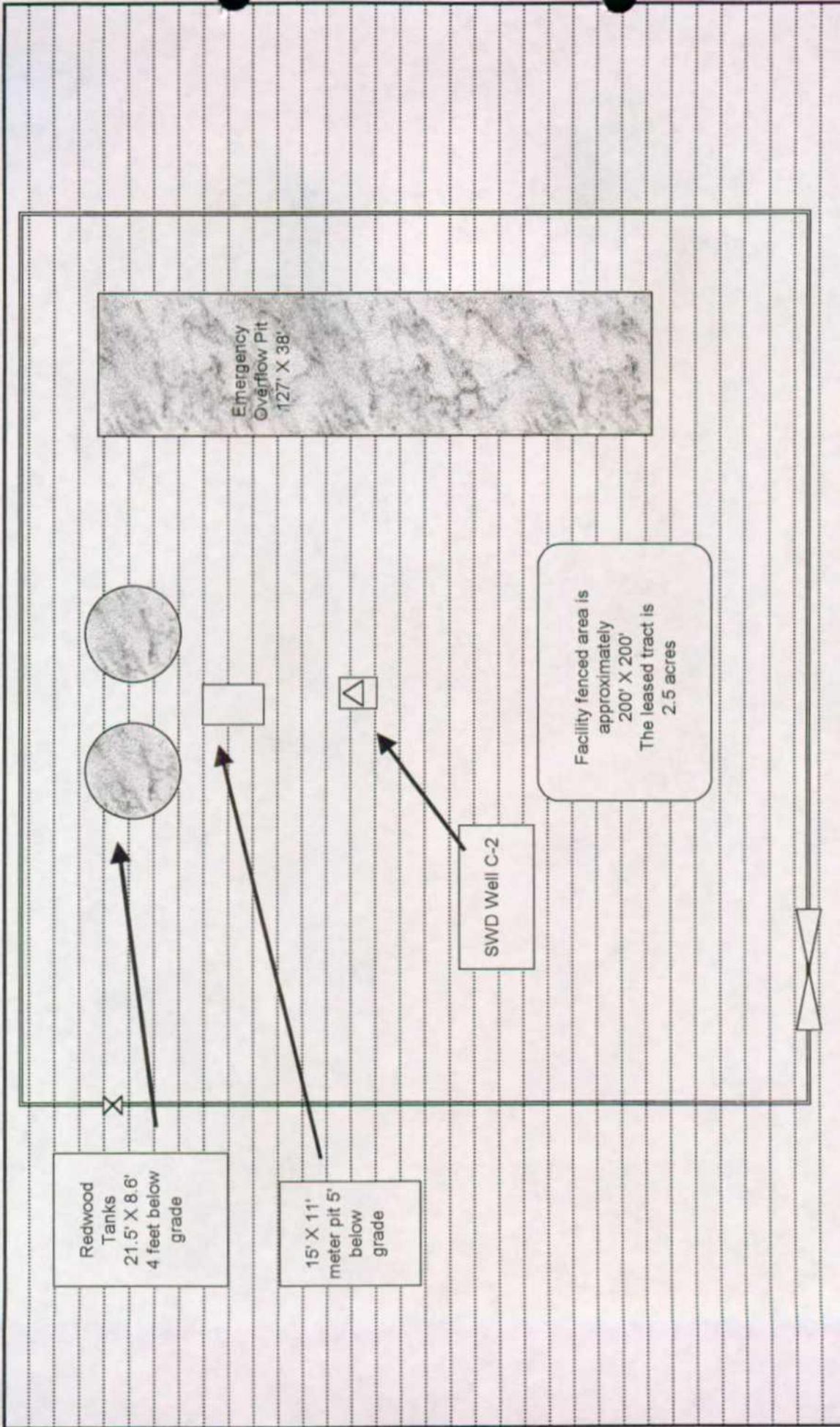
Type or print name CAROLYN DORAN HAYNES Telephone No. 505-393-9174

(This space for State use)

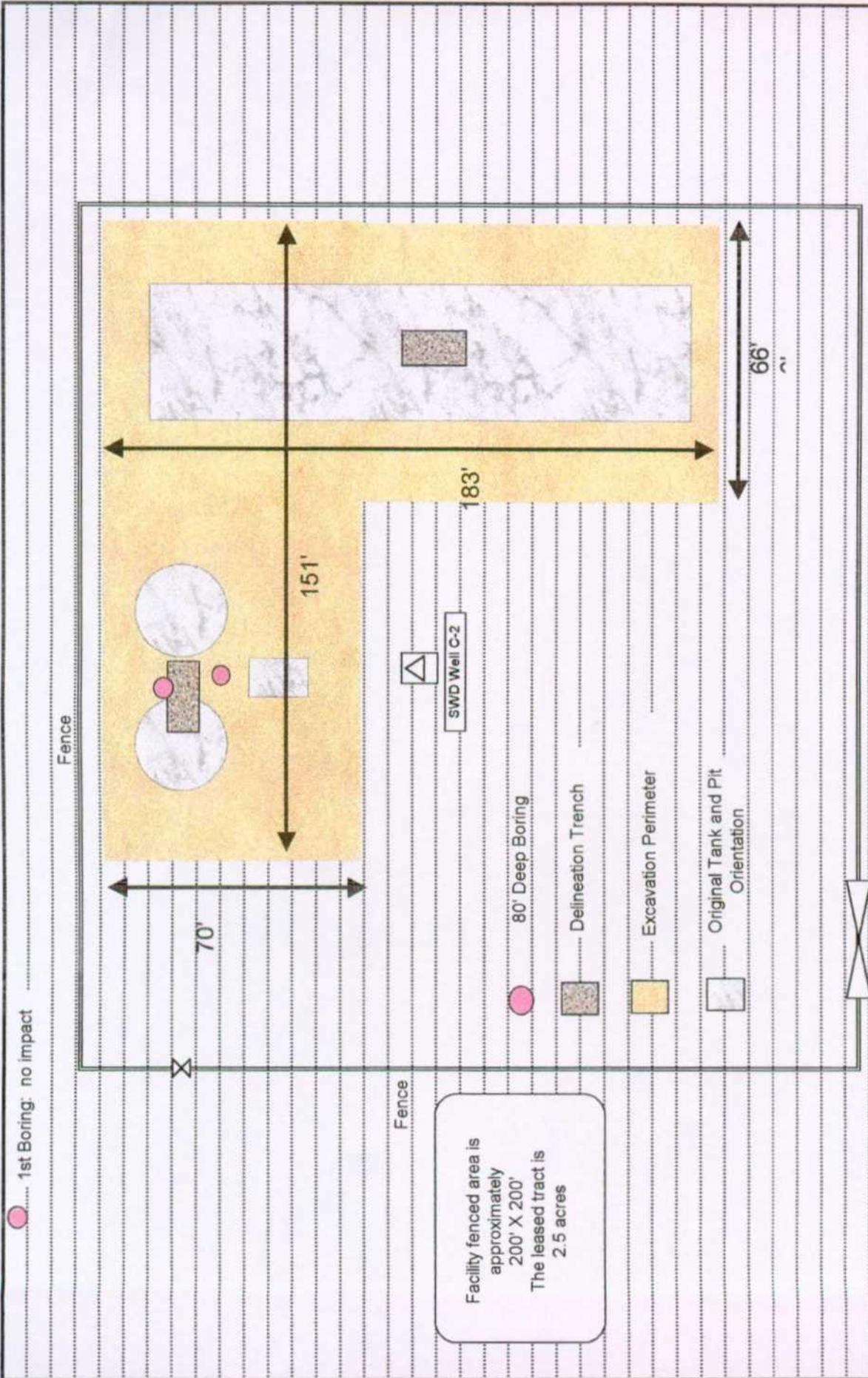
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval, if any:





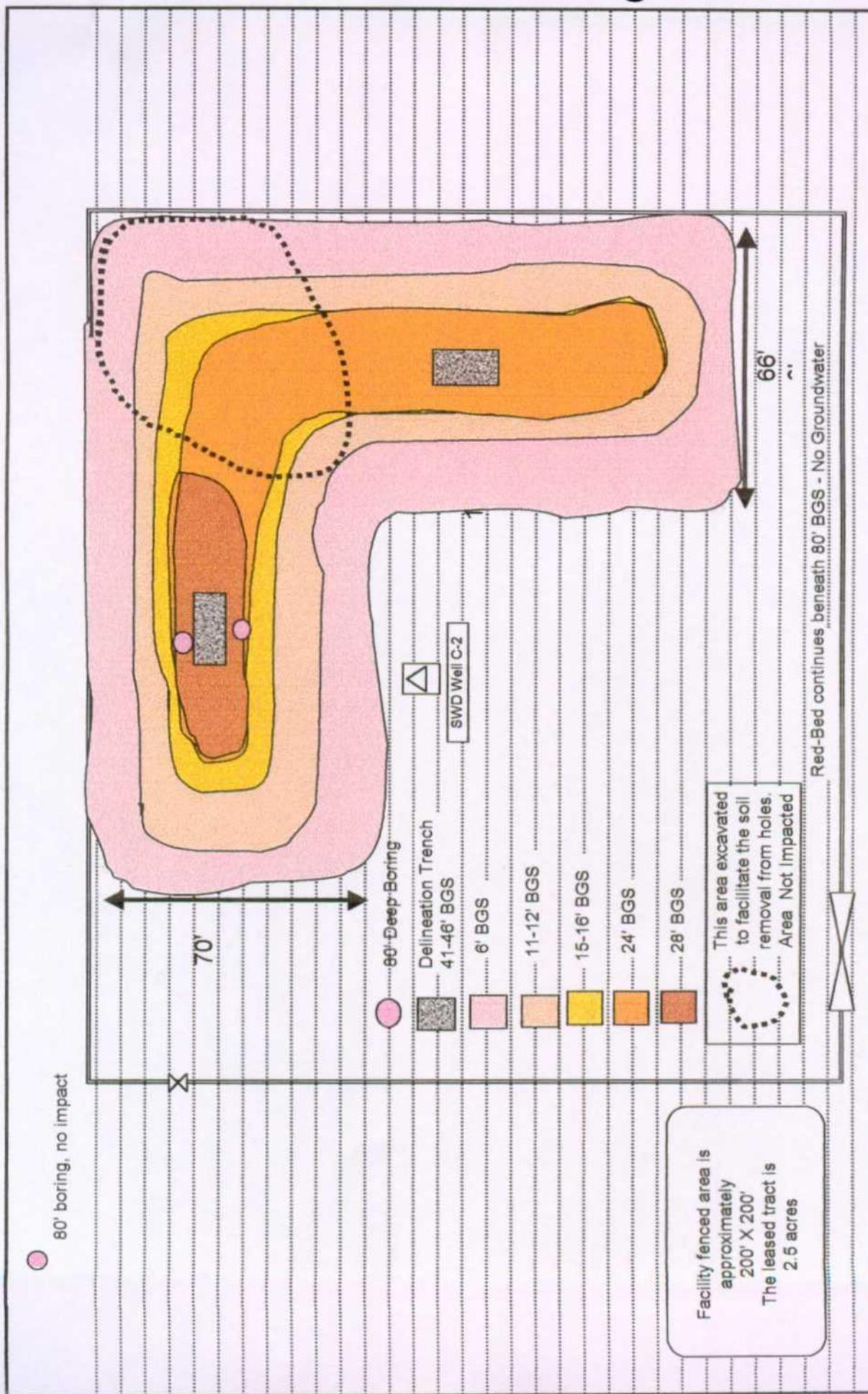
<p>Rice Operating Company          122 West Taylor          Hobbs, NM 88240          (505) 393-9174</p>	<p>Original Layout</p>	<p>Redwood Tank and Emergency Overflow Pit          SWD Well C-2          Unit Letter C, Sec 2-T22S-R37E          Lea County, New Mexico</p>
---	------------------------	--



Rice Operating Company  
 122 West Taylor  
 Hobbs, NM 88240  
 (505) 393-9174

EXCAVATION  
 LAYOUT

Redwood Tank and Emergency Overflow Pit  
 SWD Well C-2  
 Unit Letter C, Sec 2-T22S-R37E  
 Lea County, New Mexico



Facility fenced area is approximately 200' X 200'. The leased tract is 2.5 acres

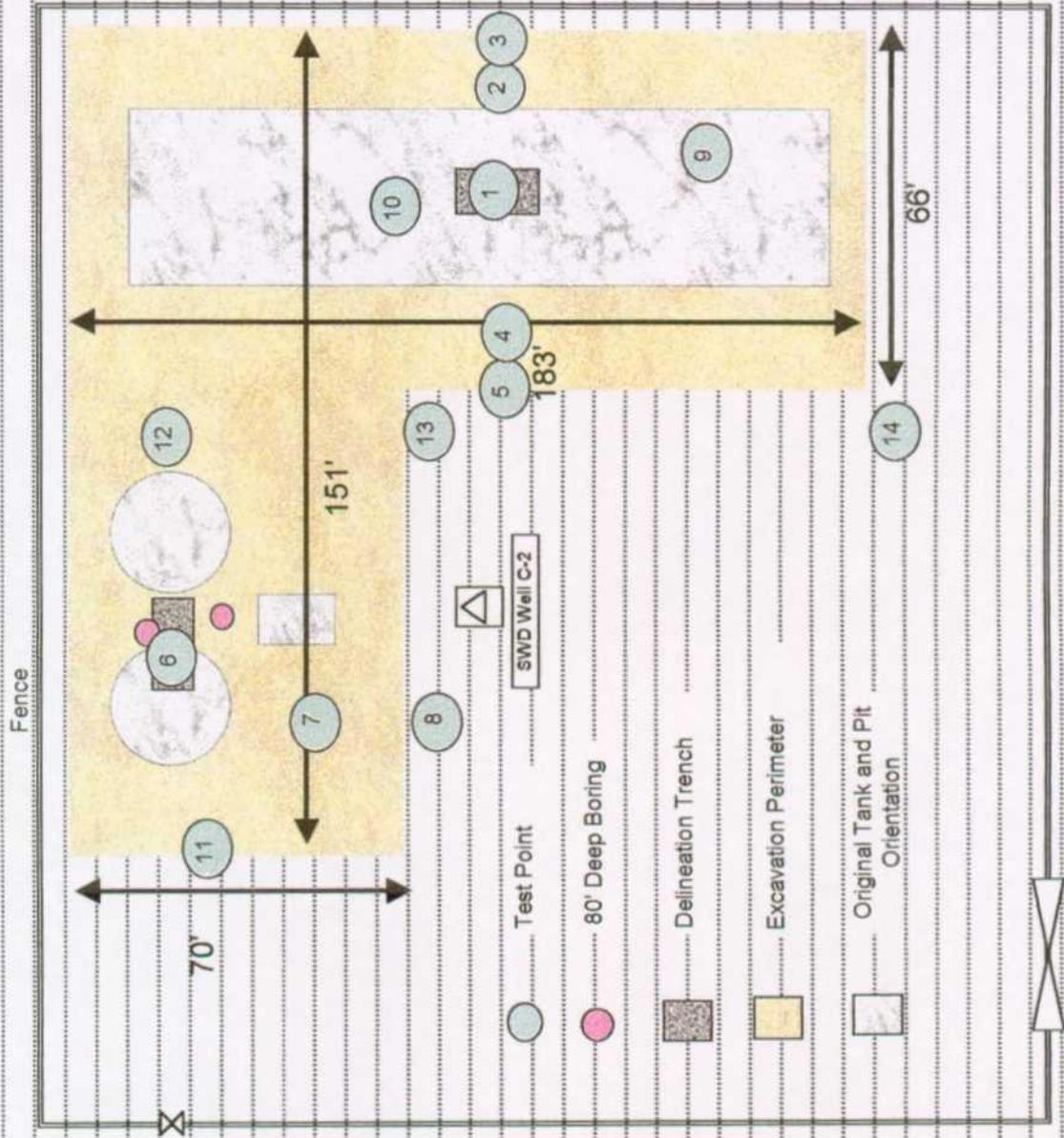
Rice Operating Company  
 122 West Taylor  
 Hobbs, NM 88240  
 (505) 393-9174

**EXCAVATION DEPTHS**

Redwood Tank and Emergency Overflow Pit  
 SWD Well C-2  
 Unit Letter C, Sec 2-T22S-R37E  
 Lea County, New Mexico

● 1st Boring: no impact

Test Point	Depth BGS	PPM TPH
1	18	20
1	22	47
2	11	10
3	7	30
4	11	20
5	6	30
6	24	1250
6	26	230
6	30	11
7	20	8
8	2	25
9	10	440
9	14	10900
9	18	137
9	19	80
10	14	120
10	16	18
11	12	22
12	12	20
13	1	1120
13	1.5	21
14	0	9450
14	1	990
14	2	21



Rice Operating Company  
 122 West Taylor  
 Hobbs, NM 88240  
 (505) 393-9174

### TPH SAMPLING LAYOUT AND FIELD TEST RESULTS

Redwood Tank and Emergency Overflow Pit  
 SWD Well C-2  
 Unit Letter C, Sec 2-T22S-R37E  
 Lea County, New Mexico

5 - BGS	TPH	EC (Chloride ppm)	EC (Chloride ppm)	EC (Chloride ppm)
10	145	2.4		
15				
20	187	1.23		
25				
30	111	2		
35				
40	34	7.1	4.1	16.2
45				
50	14	2.7	7 *	17.4 (6736 ppm)
55				
60			3.6 *	9.2 (2482 ppm)
65			5 *	7.1 (2393 ppm)
70			6.3 *	2.1
75			7.1 *	2.6
80		2.2 (<10ppm)	7.1 * (<100 ppm)	4.2
85				3.1
				3
				4.7
				4.9 (<100 ppm)

Boring Contractor:  
Eades  
Waterwell  
Drilling

On-Site  
Environmental  
Consultant:  
Whole Earth

Field TPH done by  
Whole Earth.  
Chloride tests by  
Environmental lab of  
Texas.  
EC by Whole Earth  
and (\*) Rice Op.

All three boreholes  
were plugged by  
Eades Waterwell  
Drilling with bentonite  
chips and water.

Boring X

Boring Z

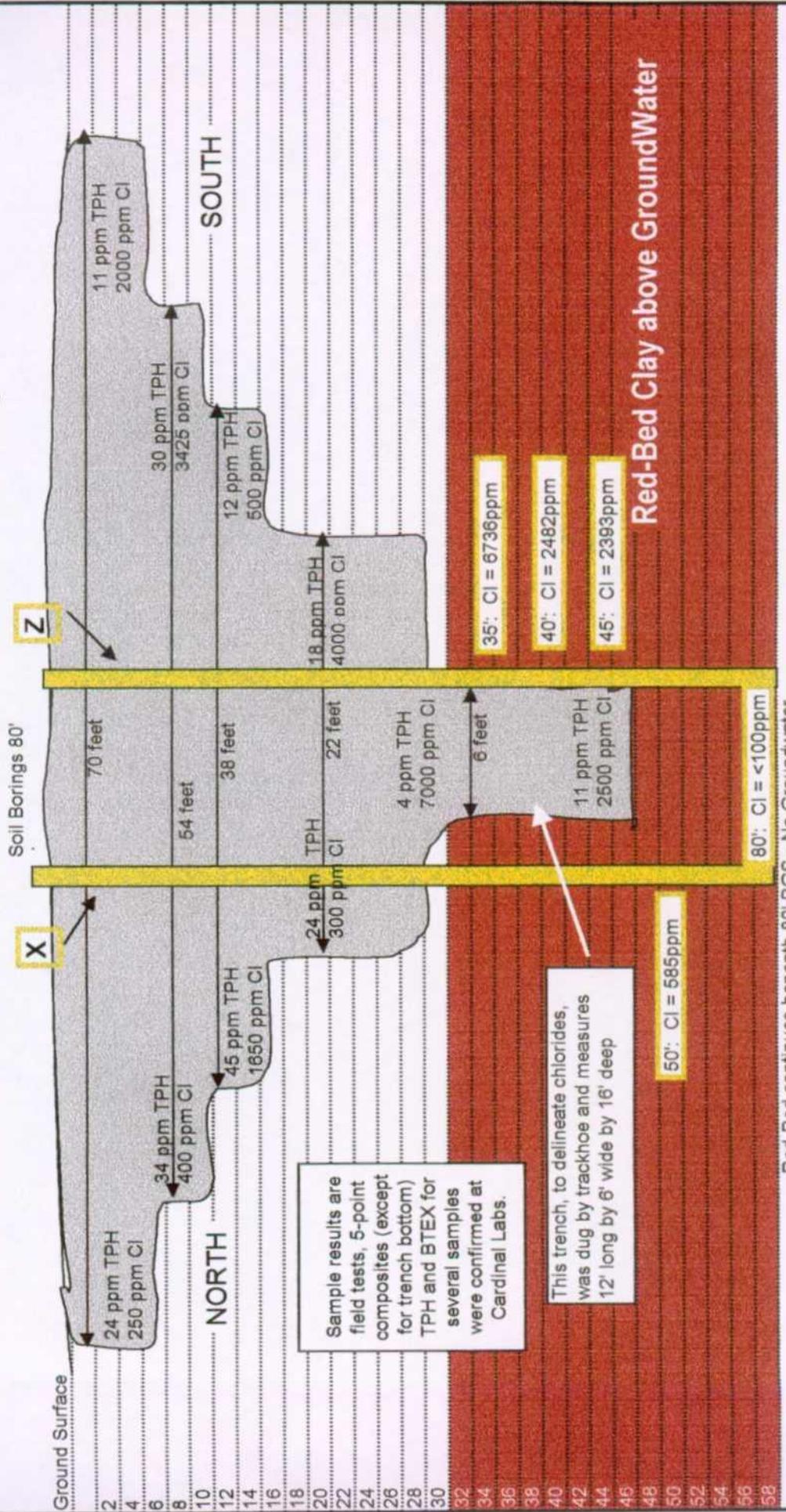
1st Boring  
54' NNW of NW Corner Fence Post

Rice Operating Company  
122 West Taylor  
Hobbs, NM 88240  
(505) 393-9174

**BORING  
FIELD TEST RESULTS**

Redwood Tank and Emergency Overflow Pit  
SWD Well C-2  
Unit Letter C, Sec 2-T22S-R37E  
Lea County, New Mexico

# Redwood Tank Excavation 70' wide X 150' long



Sample results are field tests, 5-point composites (except for trench bottom) TPH and BTEX for several samples were confirmed at Cardinal Labs.

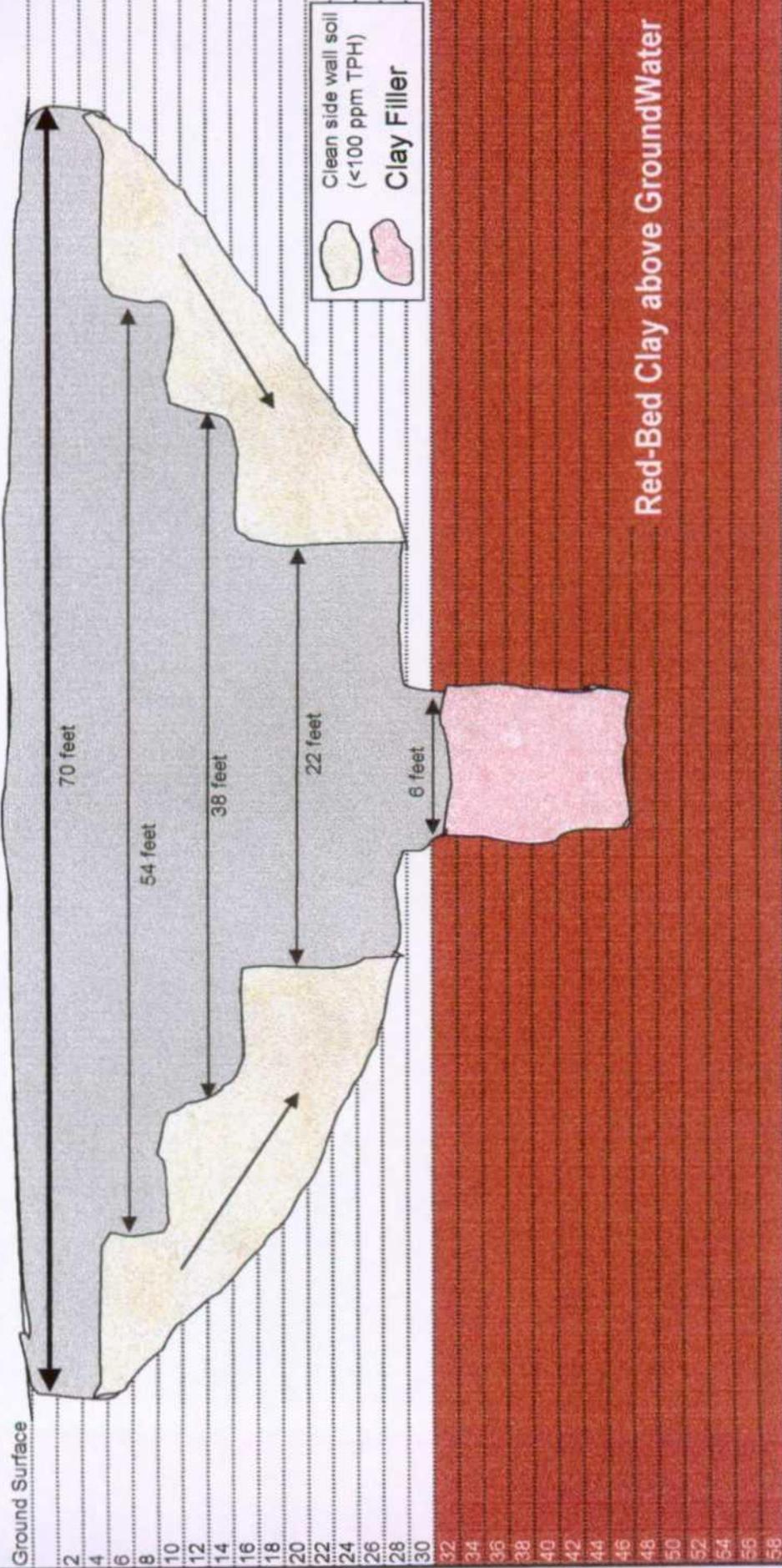
This trench, to delineate chlorides, was dug by trackhoe and measures 12' long by 6' wide by 16' deep

Rice Operating Company  
122 West Taylor  
Hobbs, NM 88240  
(505) 393-9174

Chloride and TPH  
Delineation

Redwood Tank Excavation  
SWD Well C-2  
Unit Letter C, Sec 2-T22S-R37E  
Lea County, New Mexico

# Redwood Tank Red-Bed Fill



Red-Bed continues beneath 80' BGS - No Groundwater

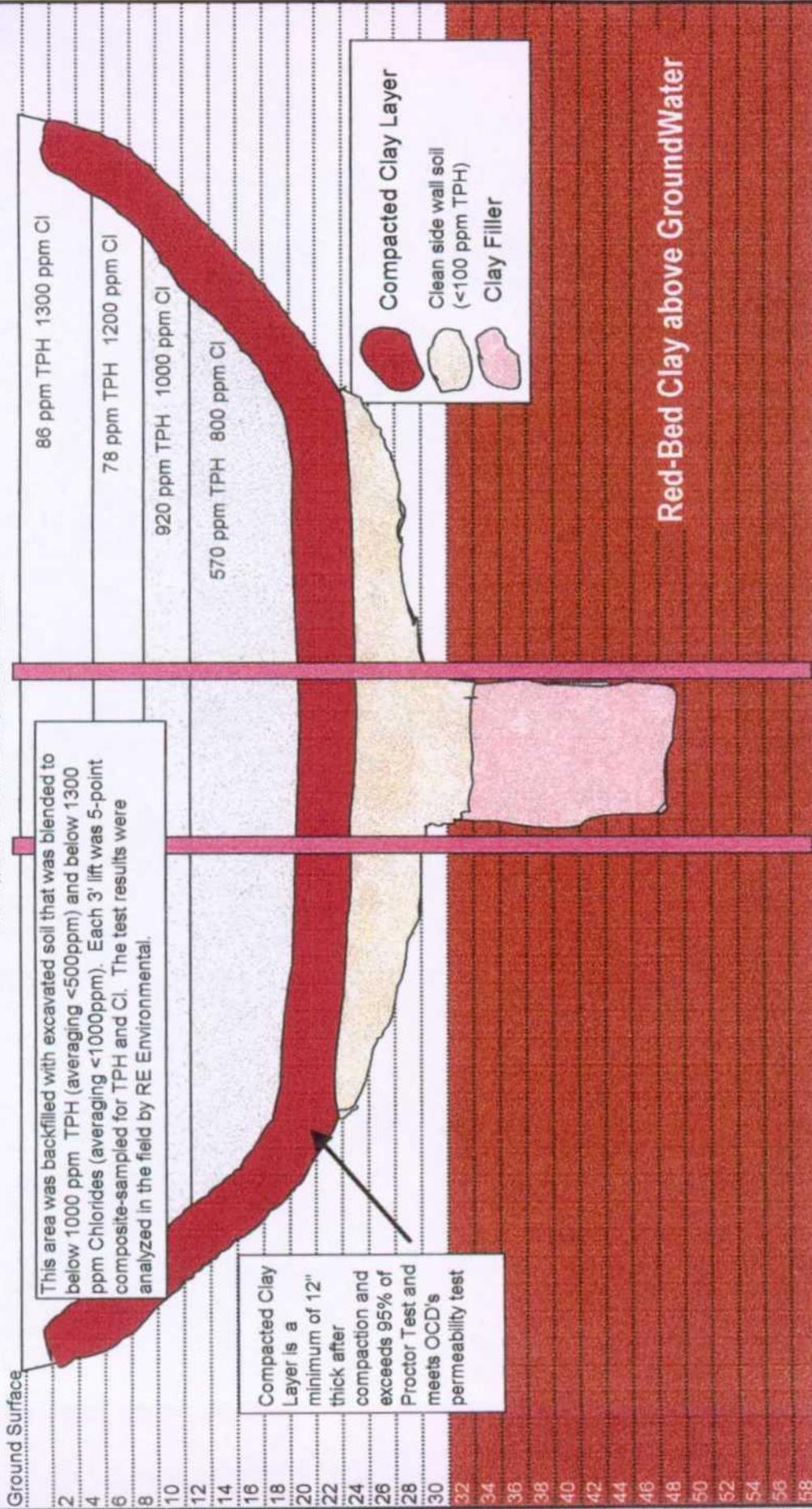
Rice Operating Company  
122 West Taylor  
Hobbs, NM 88240  
(505) 393-9174

Clay Fill for Red-Bed and  
Side-Step Leveling

Redwood Tank Excavation  
SWD Well C-2  
Unit Letter C, Sec 2-T22S-R37E  
Lea County, New Mexico

# Redwood Tank Bottom Backfill

Bore-holes of 80' deep were properly plugged by Eades  
Drilling with bentonite chips and watered.



This area was backfilled with excavated soil that was blended to below 1000 ppm TPH (averaging <500ppm) and below 1300 ppm Chlorides (averaging <1000ppm). Each 3' lift was 5-point composite-sampled for TPH and Cl. The test results were analyzed in the field by RE Environmental.

Compacted Clay Layer is a minimum of 12" thick after compaction and exceeds 95% of Proctor Test and meets OCD's permeability test

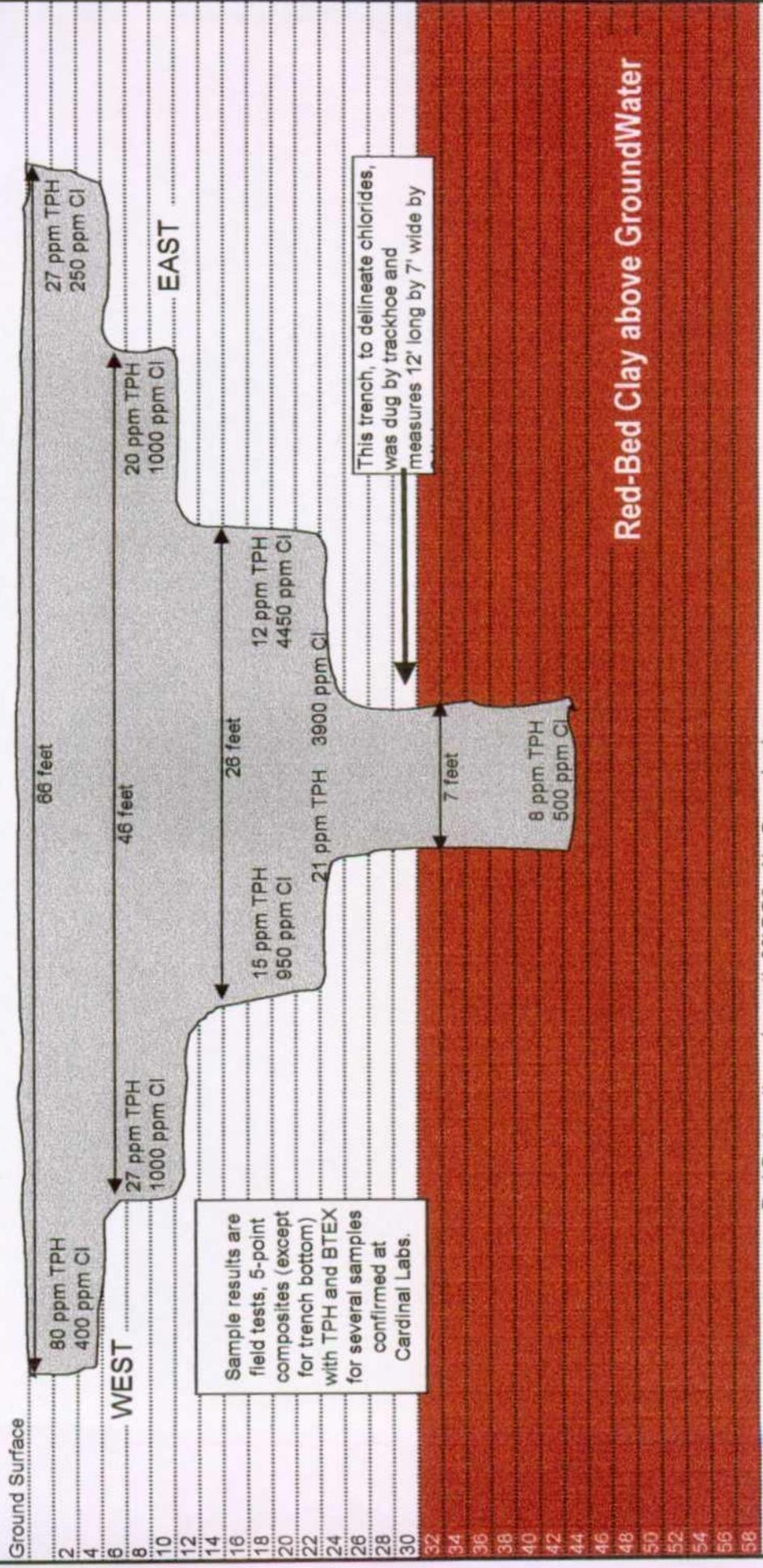
Red-Bed continues beneath 80' BGS - No Groundwater

Rice Operating Company  
122 West Taylor  
Hobbs, NM 88240  
(505) 393-9174

Backfill Lift  
Definition

Redwood Tank Excavation  
SWD Well C-2  
Unit Letter C, Sec 2-T22S-R37E  
Lea County, New Mexico

# Emergency Overflow Pit Excavation 66' wide X 150' long



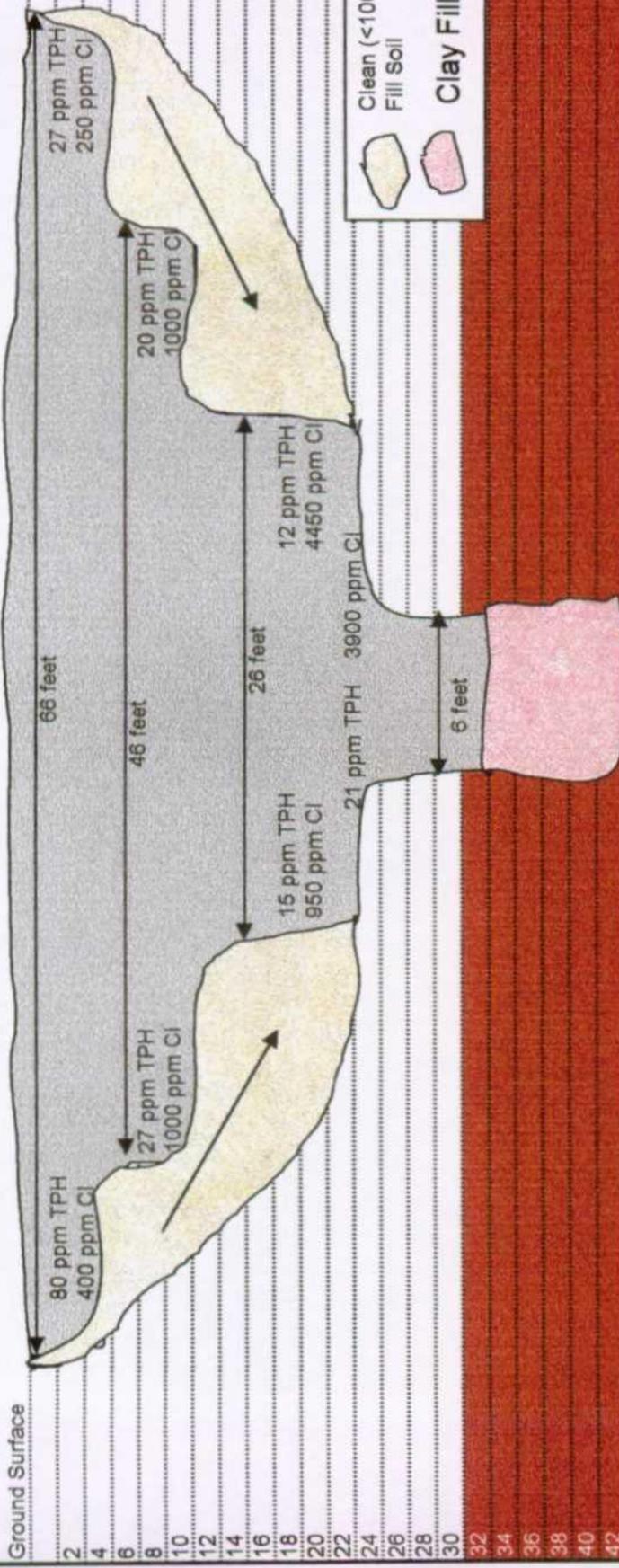
Red-Bed continues beneath 80' BGS - No Groundwater

Rice Operating Company  
 122 West Taylor  
 Hobbs, NM 88240  
 (505) 393-9174

Chloride and TPH  
 Delineation

Emergency Overflow Pit Excavation  
 SWD Well C-2  
 Unit Letter C, Sec 2-T22S-R37E  
 Lea County, New Mexico

# Emergency Overflow Pit Red-Bed Fill



Clean (<100 ppm TPH) Fill Soil  
 Clay Fill

Red-Bed Clay above GroundWater

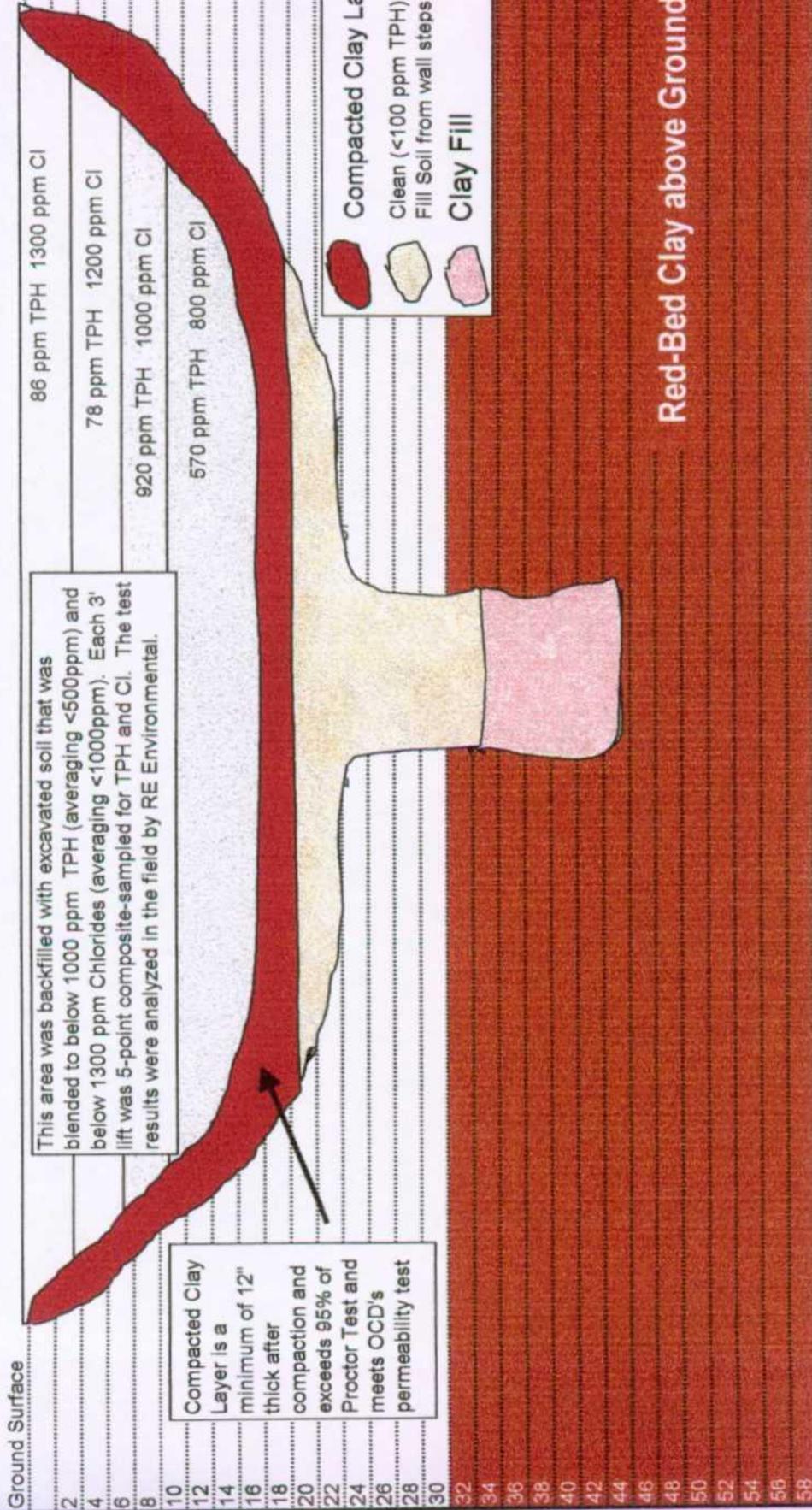
Red-Bed continues beneath 80' BGS - No Groundwater

**Rice Operating Company**  
 122 West Taylor  
 Hobbs, NM 88240  
 (505) 393-9174

**Clay Fill for Red-Bed and Side-Step Leveling**

**Emergency Overflow Pit Excavation**  
 SWD Well C-2  
 Unit Letter C, Sec 2-T22S-R37E  
 Lea County, New Mexico

# Emergency Overflow Pit Backfill

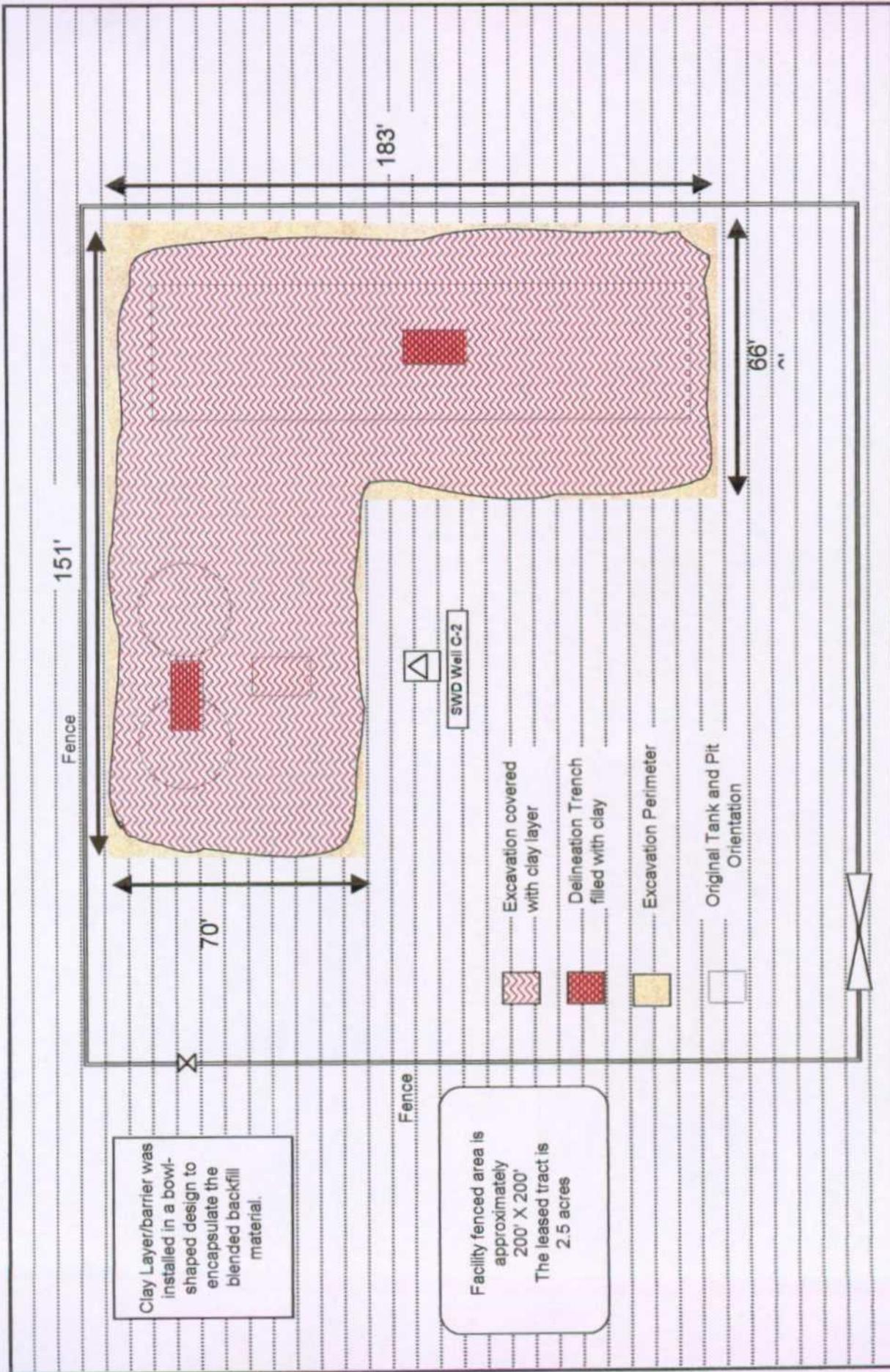


Red-Bed continues beneath 80' BGS - No Groundwater

**Rice Operating Company**  
 122 West Taylor  
 Hobbs, NM 88240  
 (505) 393-9174

**Backfill Lift Definition**

**Emergency Overflow Pit Excavation**  
 SWD Well C-2  
 Unit Letter C, Sec 2-T22S-R37E  
 Lea County, New Mexico

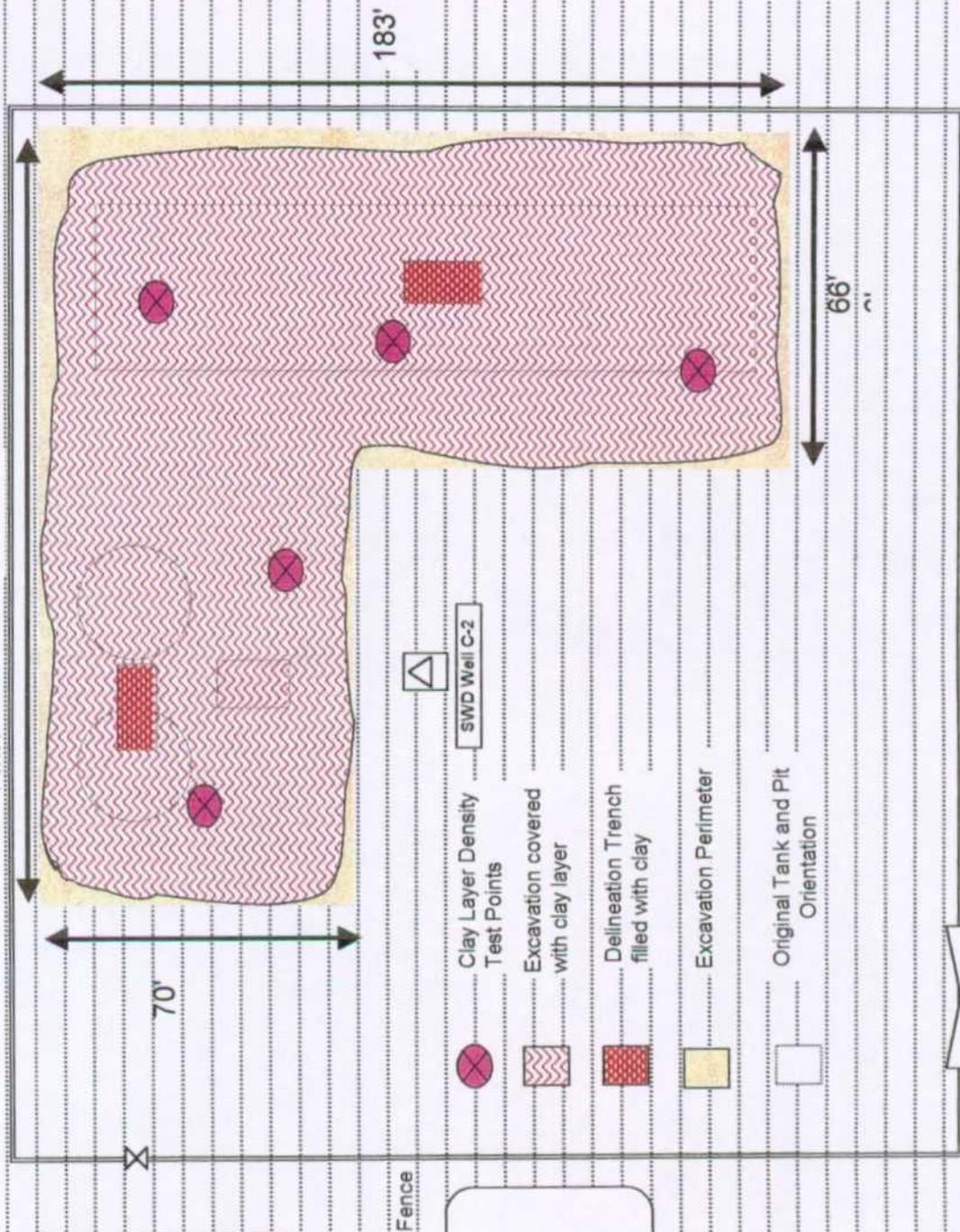


Rice Operating Company  
 122 West Taylor  
 Hobbs, NM 88240  
 (505) 393-9174

**CLAY LAYER - BARRIER LAYOUT**

Redwood Tank and Emergency Overflow Pit  
 SWD Well C-2  
 Unit Letter C, Sec 2-T22S-R37E  
 Lea County, New Mexico

Fence 151'



Clay Layer/barrier was installed in a bowl-shaped design to encapsulate blended backfill material and to prevent downward migration of moisture.

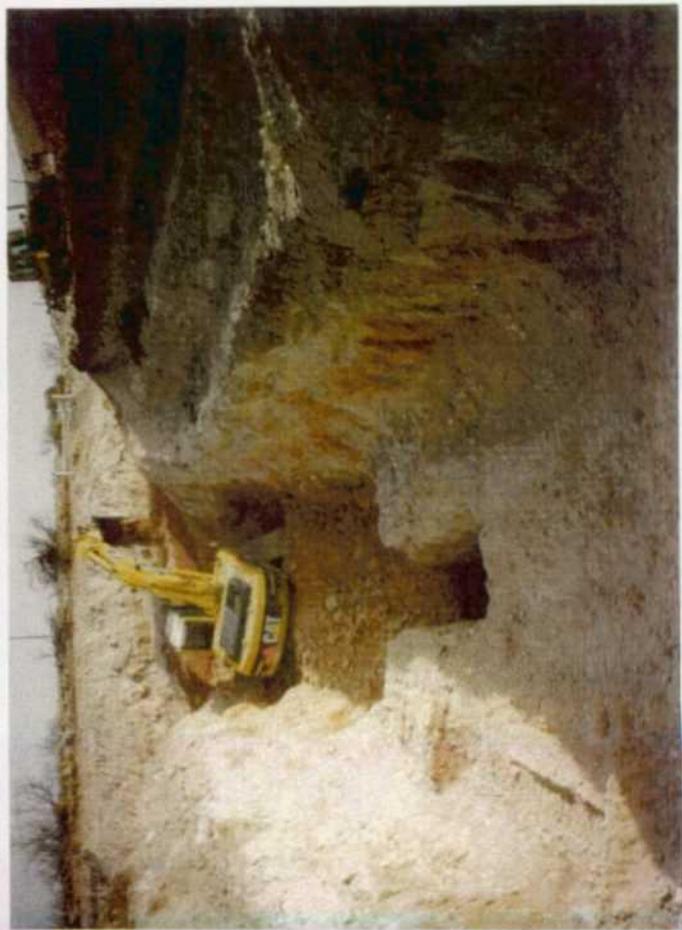
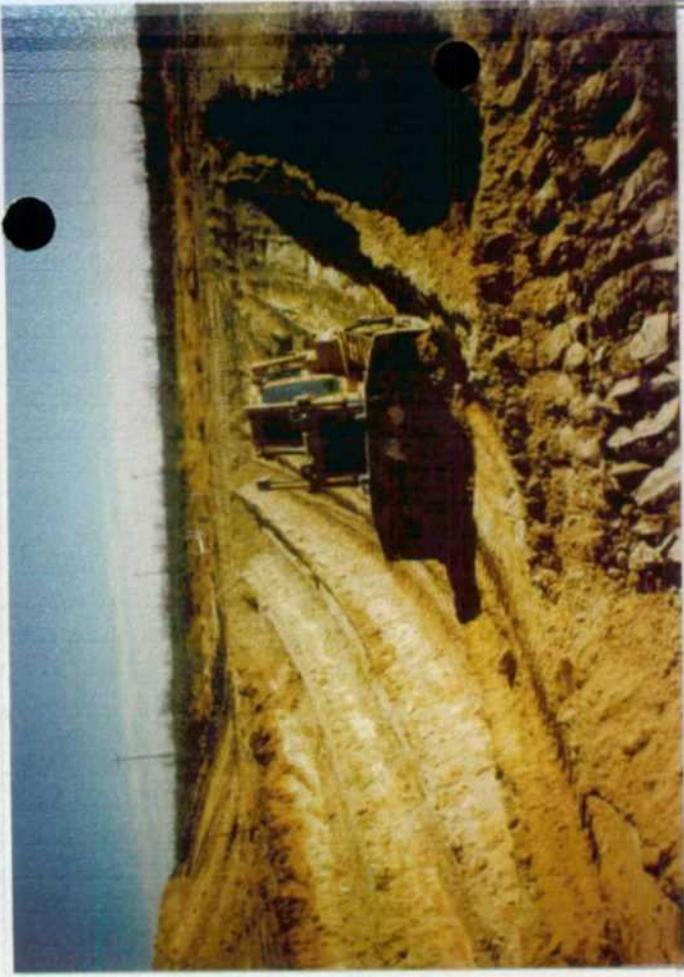
Facility fenced area is approximately 200' X 200'  
The leased tract is 2.5 acres

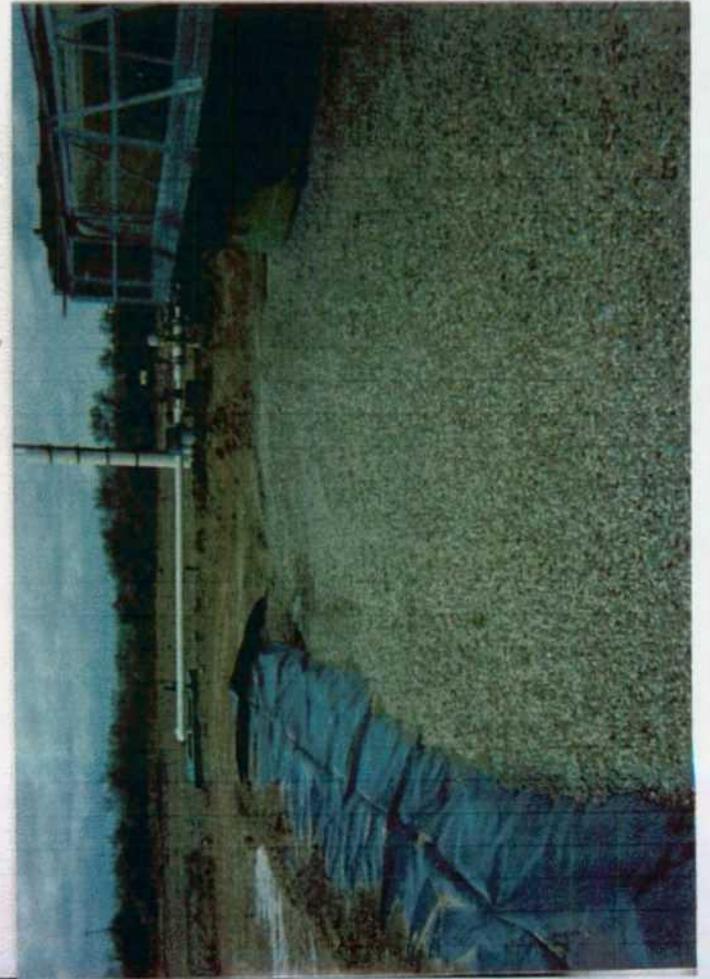
- Clay Layer Density Test Points
- Excavation covered with clay layer
- Delineation Trench filled with clay
- Excavation Perimeter
- Original Tank and Pit Orientation
- SWD Well C-2

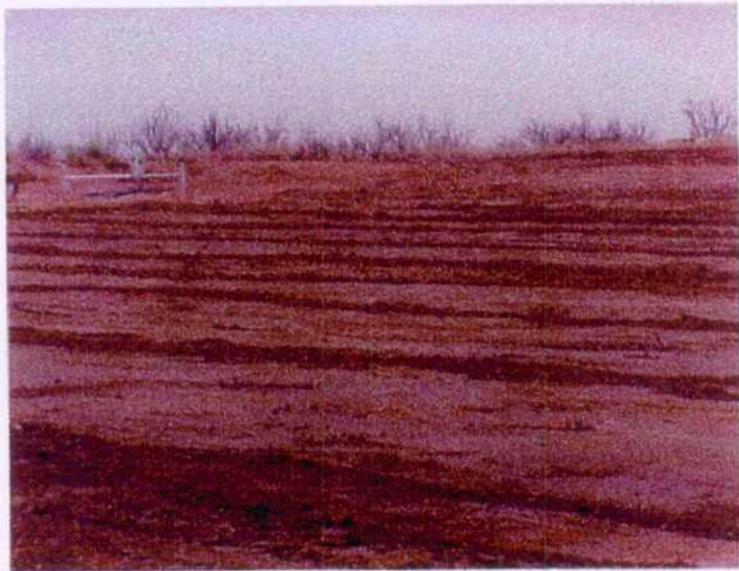
Rice Operating Company  
122 West Taylor  
Hobbs, NM 88240  
(505) 393-9174

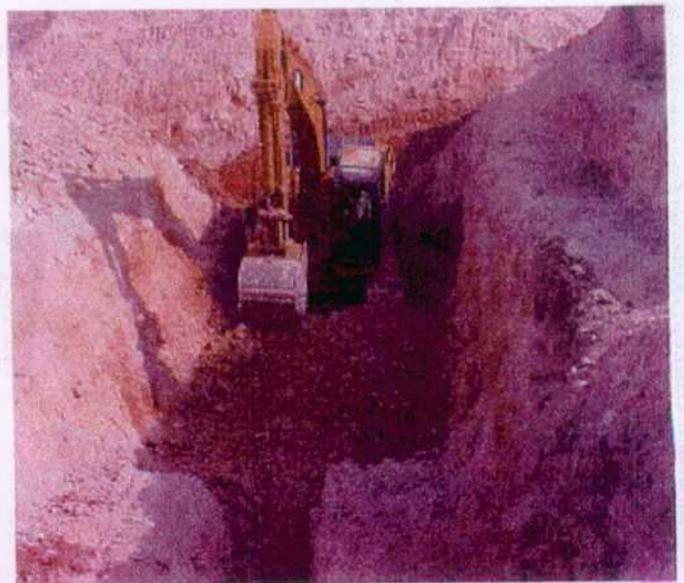
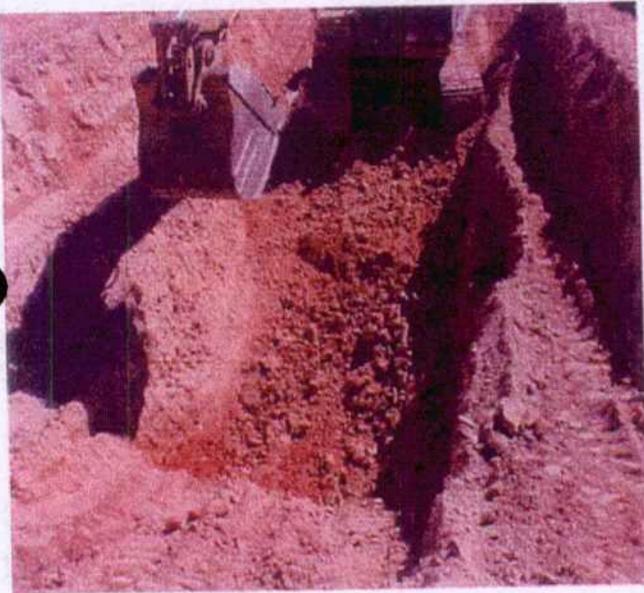
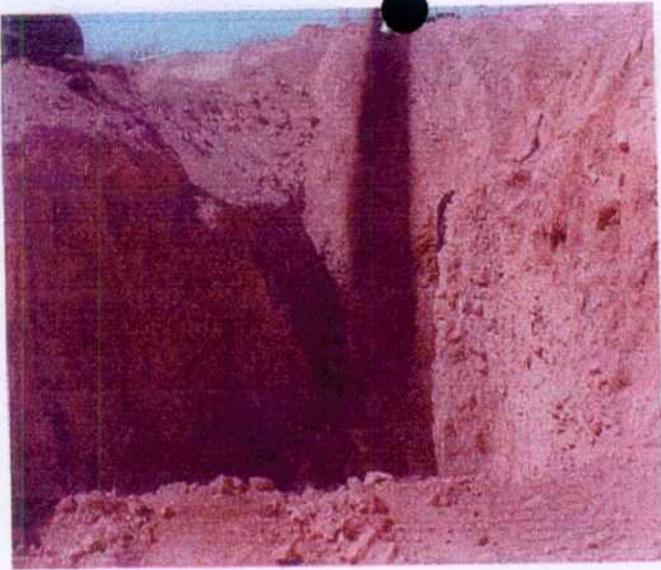
**CLAY LAYER - BARRIER  
LAYOUT AND TEST POINTS**

Redwood Tank and Emergency Overflow Pit  
SWD Well C-2  
Unit Letter C, Sec 2-T22S-R37E  
Lea County, New Mexico

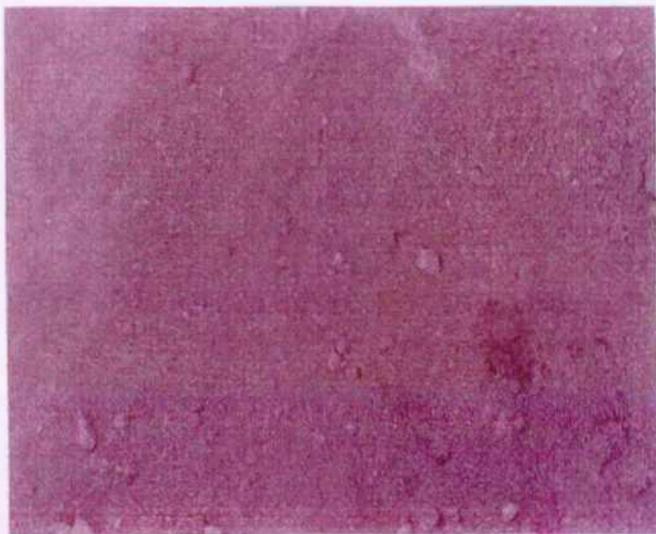
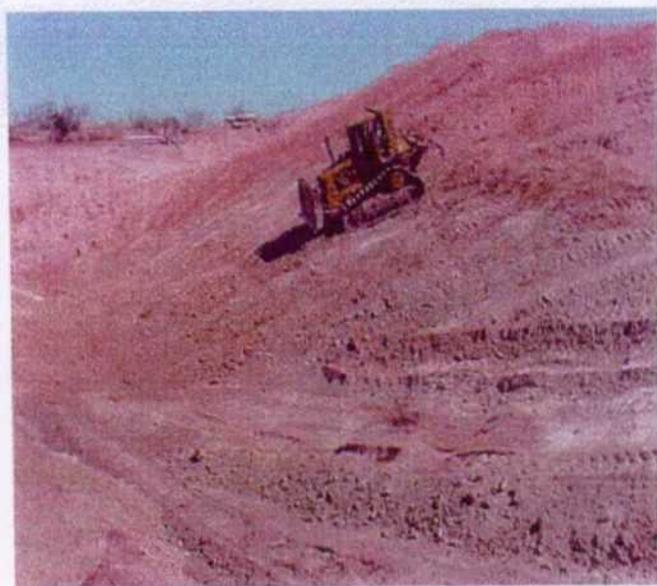


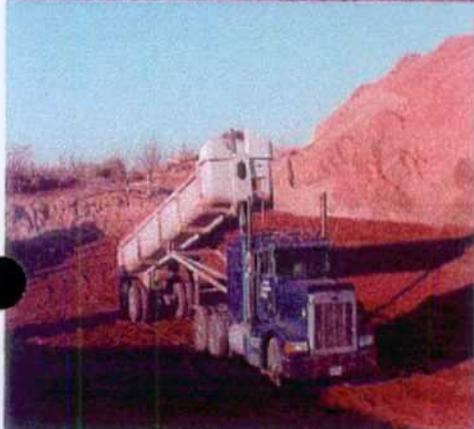
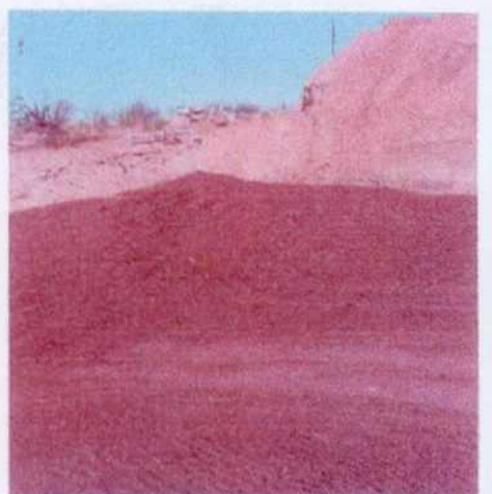
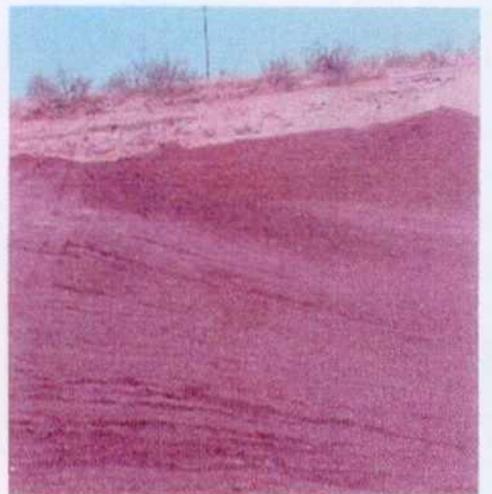
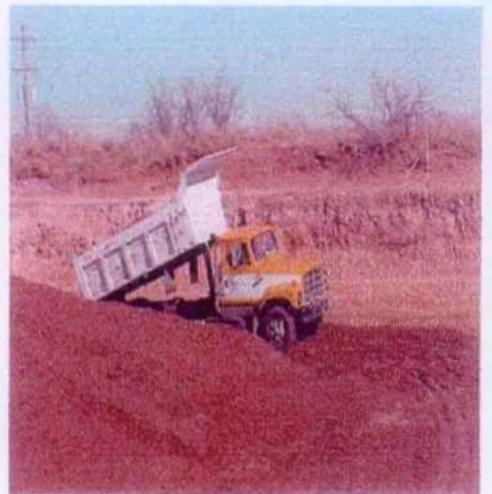
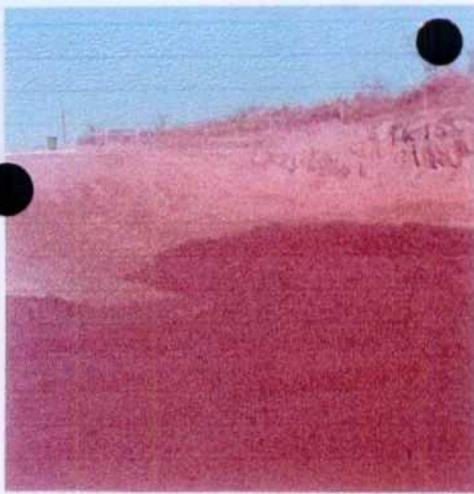


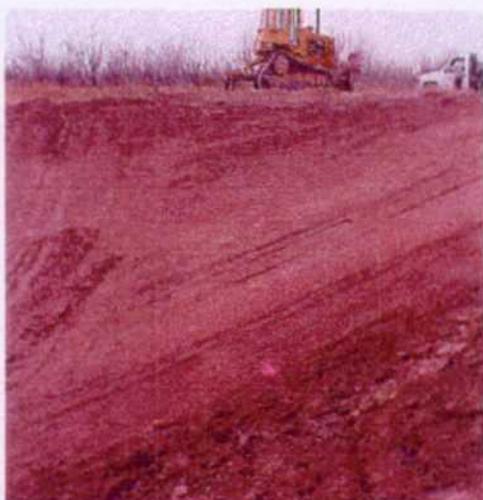
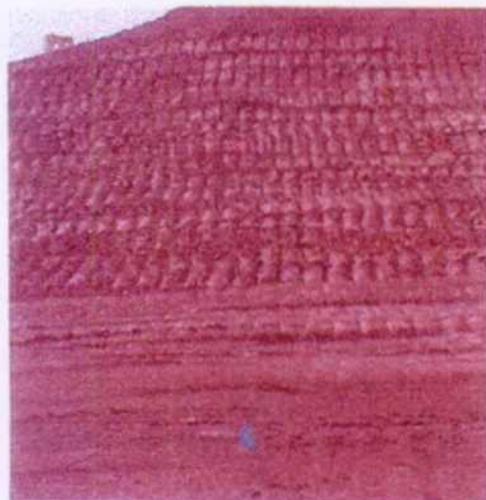
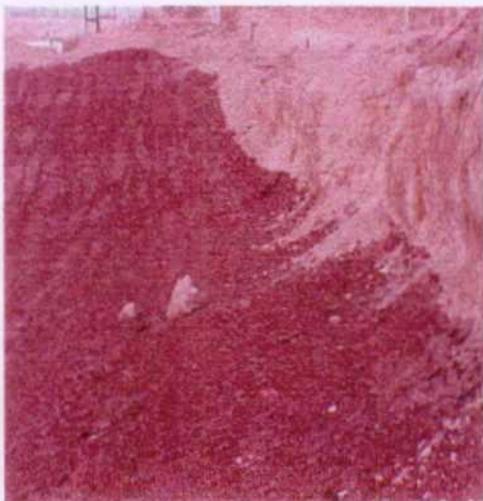
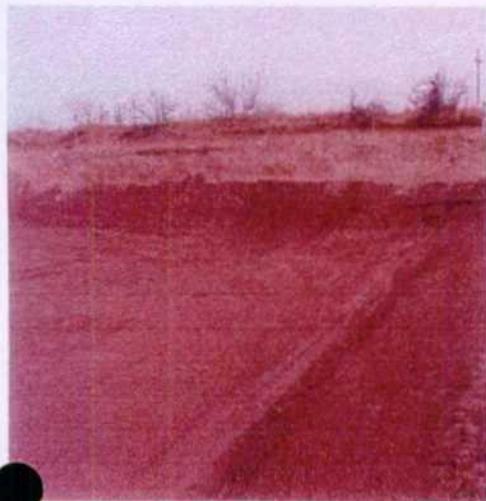
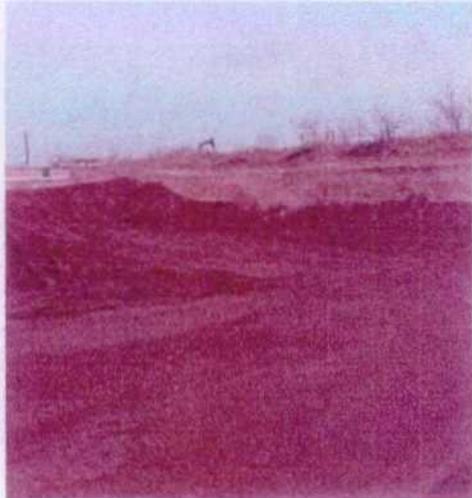
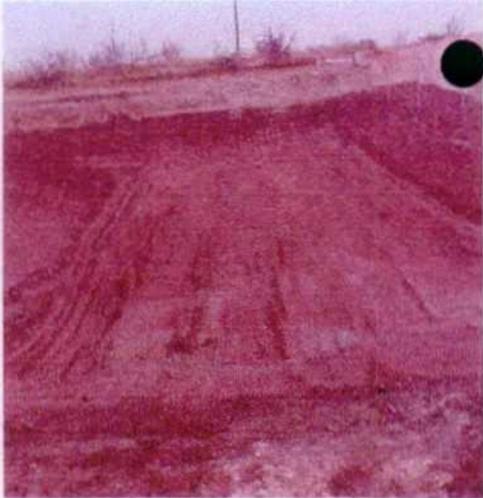
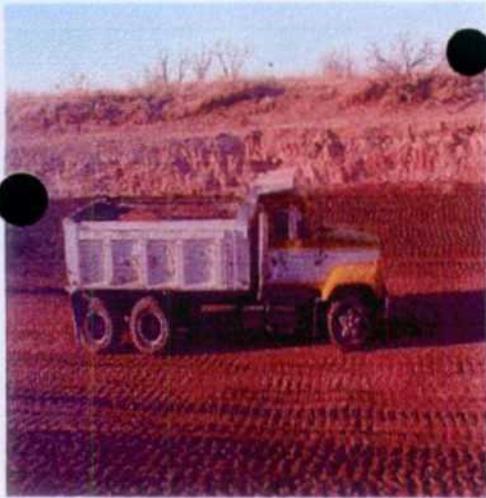


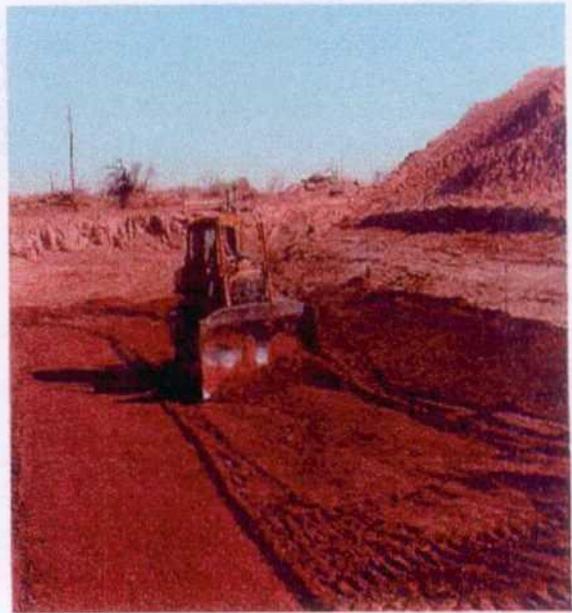
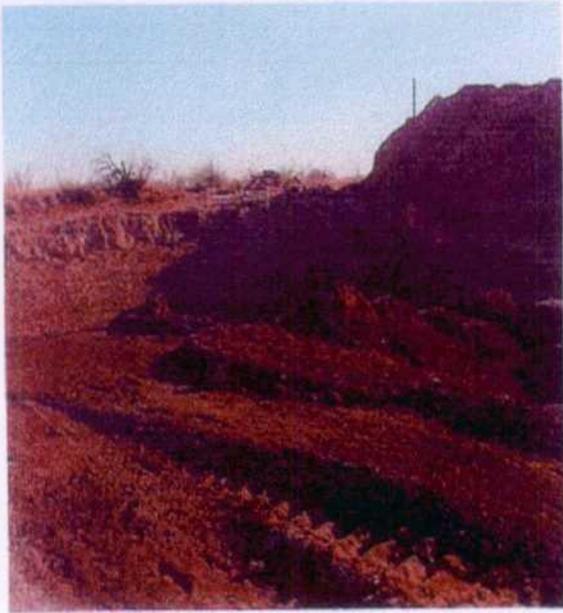


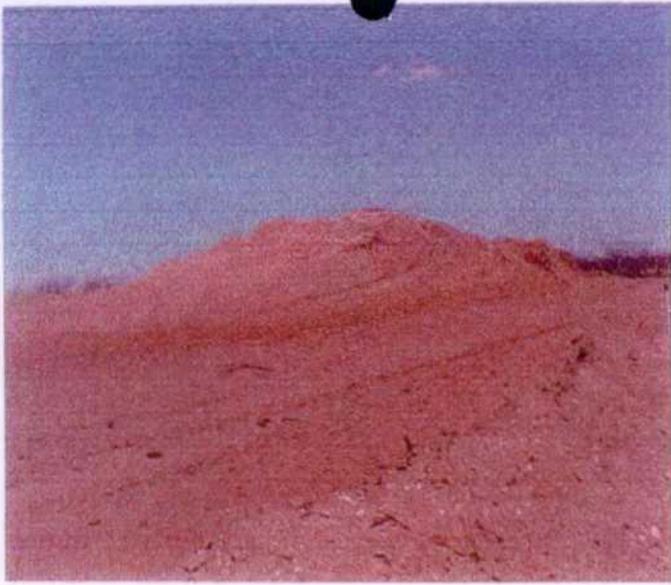




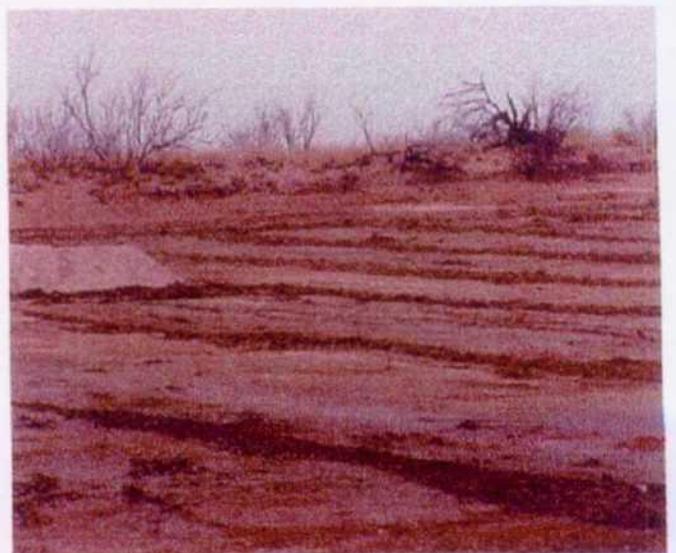












# **RICE** *Operating Company*

122 West Taylor • Hobbs, NM 88240

Phone: (505) 393-9174 • Fax: (505) 397-1471

## **SITE PROFILE**

### **Location**

The Blinebry Drinkard SWD Facility C-2 is situated approximately 1 mile east and ½ mile south of Eunice, NM. A map of the area is included in this report.

### **Site History**

The site is used as a flow-through collection and injection facility for salt-water disposal of the Blinebry-Drinkard Salt Water Disposal System. The facility used two 21.5' diameter below-grade redwood tanks as flow-through collection vessels. A permitted emergency overflow pit was utilized for system emergency capacity. The SWD Well C-2 is located at this site. A map of the facility is included in this report.

The two below-grade redwood tanks have been removed. The new tank facility is located in the NW quadrant of the fenced area. A 30-mil polyethylene liner provides secondary containment for the two 21.5' diameter flow-through fiberglass tanks. A 21.5' diameter fiberglass overflow tank replaces the emergency overflow pit. This upgrade is scheduled to be completed by the end of July 2000.

### **Land Use**

This facility is on New Mexico State Lands. The primary 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 1000' of the facility. The vertical distance to groundwater at this site was found to be greater than 80' and is estimated to be much deeper than 80' due to the immensely thick red-bed clay encountered during delineation boring.

# 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 Dept.  
Oil Conservation Division, Environmental Bureau  
2040 S. Pacheco  
Santa Fe, NM 87505

Mr. Price:

Rice Operating Company requests closure plan approval for the emergency overflow pit, Pit Permit # H-69 and the below-grade redwood tanks at the Blinebry Drinkard Salt Water Disposal Site SWD Well C-2, located in Unit C, Sec. 2, T22S, R37E, NMPM, Lea County, NM.

The C-2 facility is included in the Rice Operating Company (ROC) generic closure plan for emergency pits and below-grade redwood tanks and is the first facility to apply under the generic plan. This facility has recently experienced an accidental discharge due to a tank collapse and needs immediate attention. Rather than repair the below-grade redwood tank, it is ROC's intention to clean-up this site, close the emergency overflow pit and replace the below-grade redwood tanks with steel or fiberglass tanks set in an engineered secondary containment. ROC expects to simultaneously close the pit and tank areas, but under separate closure plans and reports, pursuant to NMOCD guidelines. The C-103 form addresses this intention.

ROC is the service provider (operator) for this salt water disposal system and has no ownership of any portion of pipeline, well or facility. The Blinebry Drinkard System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. This location requires System Partner AFE approval and advance billing for closure funds. Only after funds are received can closure work begin.

A timely response to this closure plan will be appreciated. Thank you for your consideration.



Carolyn Doran Haynes  
Operations Engineer

## Enclosures

Cc: KH, file, Ms. Donna Williams,  
NMOCD, District I Office  
P. O. Box 1980  
Hobbs, NM 88240

Submit 3 Copies  
 To Appropriate  
 District Office  
**DISTRICT I**  
 P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-103  
 Revised 1-1-89

**OIL CONSERVATION DIVISION**  
 2040 South Pacheco  
 Santa Fe, NM 87505

**DISTRICT II**  
 811 South First, Artesia NM 88210

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

WELL API NO. 30-025-24399
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Blinebry-Drinkard Salt Water Disposal System
8. Well No. C-2
9. Pool name or Wildcat

**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)

1. Type of Well:  
 Oil Well  Gas Well  Other Emergency pit and Below-grade Redwood Tank

2. Name of Operator  
 RICE OPERATING COMPANY

3. Address of Operator  
 122 West Taylor, Hobbs, NM 88240

4. Well Location  
 Unit letter C : 660 feet from the NORTH line and 2305 feet from the WEST line  
 Section 2 Township 22 South Range 37 East NMPM, Lea County, NM

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
 3360' above sea level

Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

**NOTICE OF INTENTION TO:**

**SUBSEQUENT REPORT OF:**

- |  |                  |                            |                      |
|--|------------------|----------------------------|----------------------|
| PERFORM REMEDIAL WORK  | PLUG AND ABANDON | REMEDIAL WORK              | ALTERING CASING      |
| TEMPORARILY ABANDON  | CHANGE PLANS     | COMMENCE DRILLING OPNS.    | PLUG AND ABANDONMENT |
| PULL OR ALTER CASING   |                  | CASING TEST AND CEMENT JOB |                      |
| OTHER: <u>Remove below-grade redwood tanks and close emergency pit</u> |                  | OTHER: _____               |                      |

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103.

Proposed work according to generic closure plans for below grade redwood tanks and permitted pits:

Delineate site for contamination, remove redwood tanks, close emergency overflow pit (Pit Permit # H-69) and clean-up location pursuant to NMOCD guidelines. Replace redwood tanks with steel or fiberglass tanks within an engineered secondary-containment. Work to begin as soon as OCD approves closure plan (attached). All major events, including boring, sampling 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 60' and indicate closest water well to be in Unit "P" of Section 2, T22S-R37E, which is more than 1000' from the facility at Well C-2. Topographic maps show no indication of surface water bodies within 1000' of the C-2 facility. A site review indicated no water sources within 1000' feet of the facility.

Depth to ground water: 50-99' = 10; No water source within 1000' = 0; >1000' to surface water body = 0 **Site Assessment=10**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Carolyn Doran Haynes TITLE OPERATIONS ENGINEER DATE 3/22/99

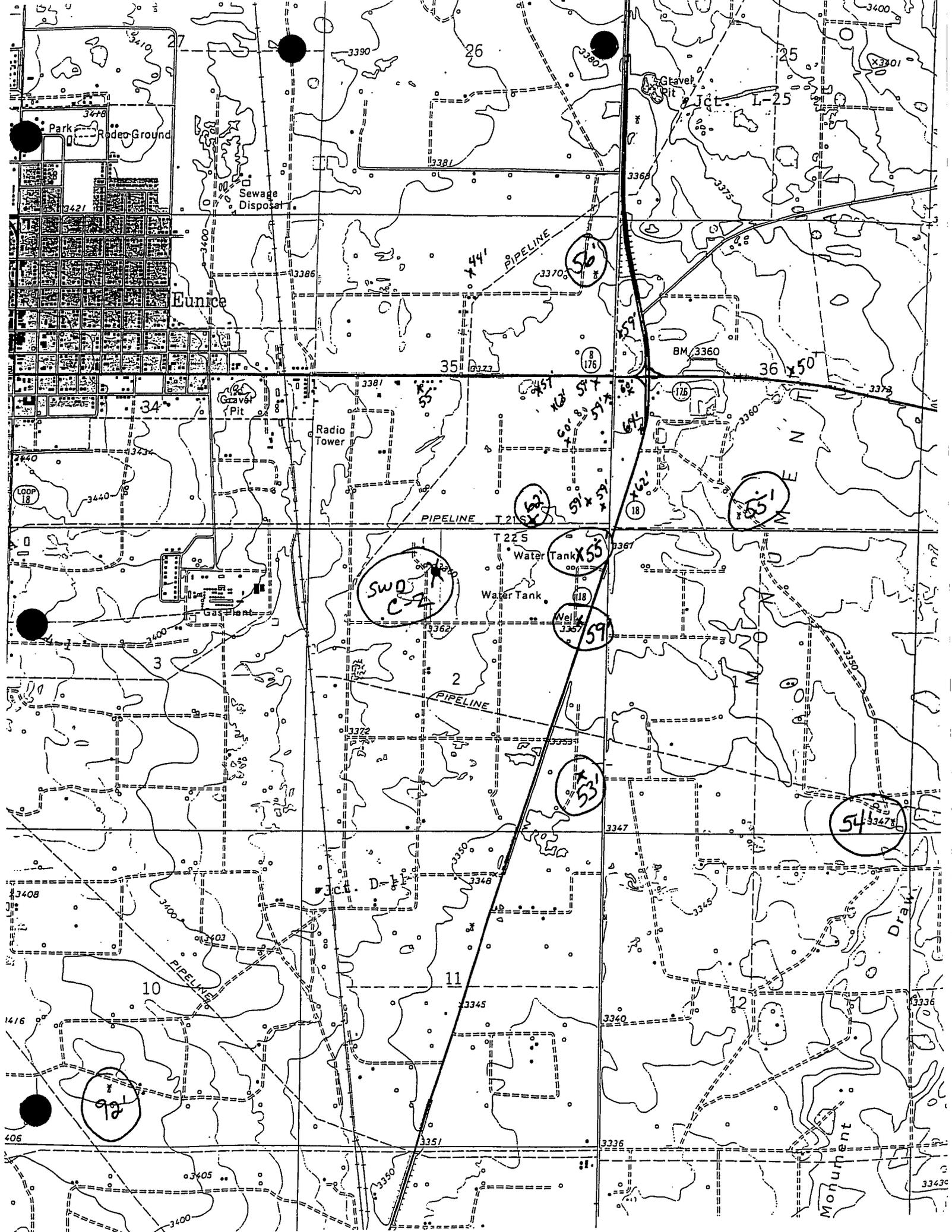
Type or print name CAROLYN DORAN HAYNES Telephone No. 505-393-9174

(This space for State use)

APPROVED

BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of approval, if any:



Park Rodeo Ground

Sewage Disposal

Eunice

Radio Tower

Water Tank

Water Tank

Monument

SWD  
C-2

X 55

X 59

X 53

54

X 52

X 57

X 50

92

44'

36 x 50

PIPELINE T 21

PIPELINE 2

PIPELINE 10

Jct. L-25

Jct. D-1

Drain

LOOP 18

3368

35

36

3

11

12

1416

405

33436

3400

3390

26

25

3381

3370

3367

3357

3347

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

3336

3440

3408

3403

3405

3381

3362

3348

3345

3351

3372

3372

3350

3350

3350

3368

BM 3360

3367

3347

3345

3340

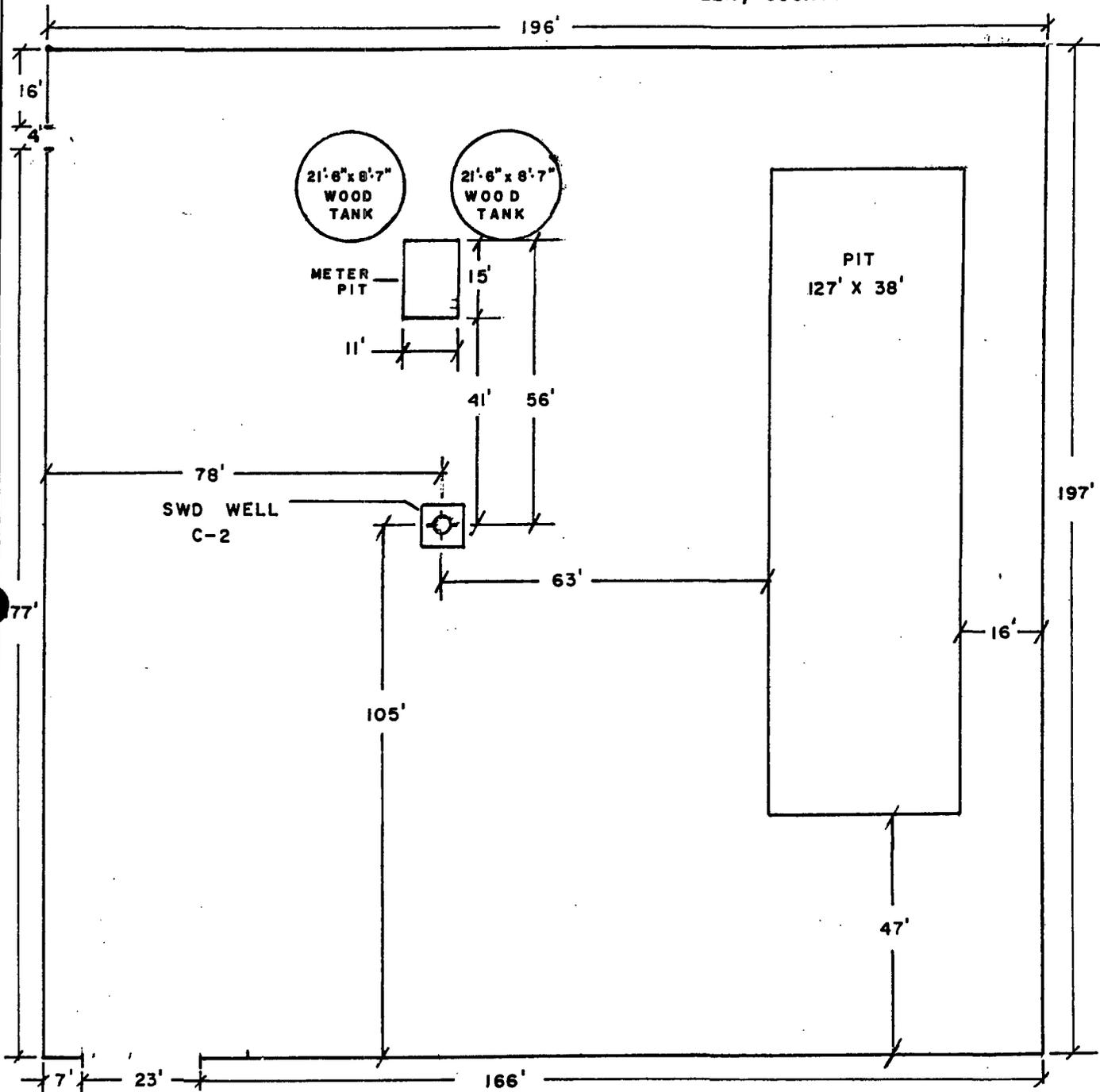
3336

3440

3408

3403

NE/4, NW/4, SEC. 2, T22S, R37E  
LEA, COUNTY NM



NOTE: WELL LOCATION ON 2-1/2 ACRES IN UNIT C  
WELL C-2: 660' FROM NORTH LINE AND 2305' FROM WEST LINE

DWN	SRT	3-99	BLINEBRY DRINKARD SWD WELL C-2	SCALE
			SCHEMATIC OF LOCATION	1" = 30'
			Rice Engineering & Operating, Inc.	DWG NO.
			Hobbs, New Mexico	A-3D-5

# NEW MEXICO STATE LAND OFFICE

## SALT WATER DISPOSAL EASEMENT

SALT WATER DISPOSAL  
EASEMENT NO. **SWD-046**

THIS AGREEMENT, dated this 28th day of March, 1999, 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 Operating Company, of 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:

<u>INSTITUTION</u>	<u>SECTION</u>	<u>TOWNSHIP</u>	<u>RANGE</u>	<u>SUBDIVISION</u>	<u>ACRES</u>
C.S.	02	22S	37E	Portion Within NW1/4NW1/4 (Lot 3)	2.50

TO HAVE AND TO HOLD said lands and privileges hereunder for a term of 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 \$500.00 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 non-payment 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.

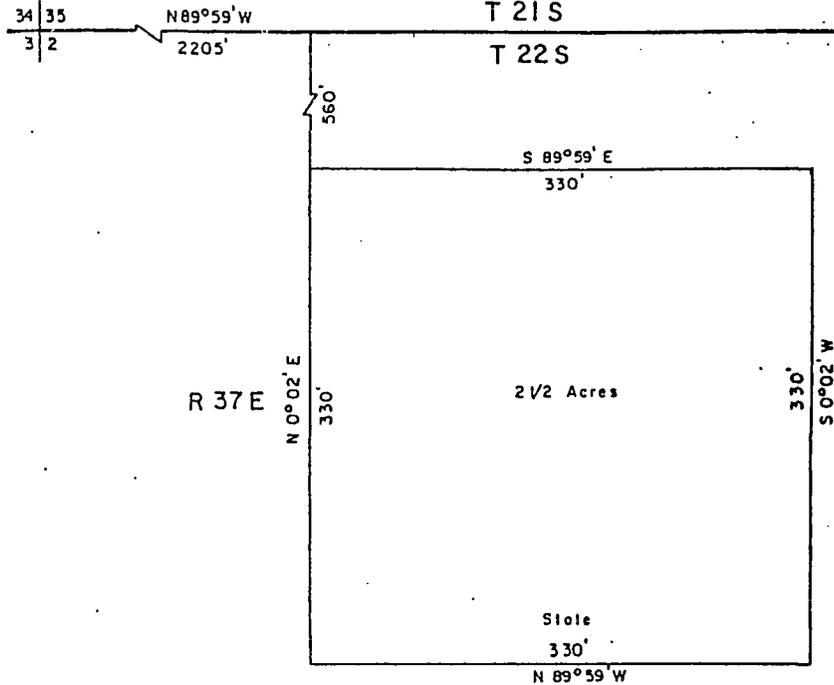
10. Payment of all sums due hereunder shall be made at the office of the Commissioner of Public Lands, 310 Old Santa Fe Trail, P. O. Box 1148, Santa Fe, New Mexico 87504-1148.

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.





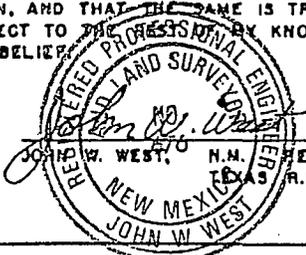
*BLD*  
C-2

**DESCRIPTION**

A tract of land containing 2½ acres, more or less, being a certain part of the northeast quarter, of the northwest quarter, of Section 2, Township 22 South, Range 37 East, N. M. P. M., Lea County, New Mexico, and more particularly described as follows:

Beginning at a point, from which the northwest corner of said Section 2, bears north 0°02' east, a distance of 560 feet, and north 89°59' west, a distance of 2205 feet; thence, south 89°59' east, a distance of 330 feet to a point; thence, south 0°02' west, a distance of 330 feet to a point; thence, north 89°59' west, a distance of 330 feet to a point; thence, north 0°02' east, a distance of 330 feet to the point of beginning.

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BOHA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



RICE ENGINEERING CORP.	
Hobbs	New Mexico
State Easement for 2½ acres of land, located in the NE¼, NW¼, Section 2, Township 22 South, Range 37 East, NMPM., Lea County, New Mexico.	
BLINEBRY-DRINKARD SWD WELL C-2	
JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS HOBBS, NEW MEXICO	
Scale 1" = 200'	Drawn by chb
Date 3/13/90	Sheet 1 of 1 Sheets



NEW MEXICO STATE LAND OFFICE  
APPRAISEMENT OF STATE INSTITUTIONAL LANDS  
FOR salt water disposal PURPOSES

To the Commissioner of Public Lands, Santa Fe, N. M.

SIR:

I have personally inspected the following described tract of land in Lea County, New Mexico, and submit this appraisal report together with a statement of the natural character and conditions thereof:

SUBDIVISION	SEC.	TWP.	RANGE	ACRES
NE/4 NW/4	2	22S	37E	2.50

Attach Exhibit if more space is needed for entire description or to complete answers below

CHARACTER OF LAND

Answer the following questions in all appraisals:

State the best use for which the land may be adapted: Grazing

State what other uses, if any, it may be or is being used for: Unknown

What is the general terrain or topography of the land? Rolling terrain

What type(s) of soil? Sandy loam. Are there any signs of erosion? Yes

If so, what type and to what extent? Minor wind erosion

What kind of vegetation is on the land, including grasses, if any? Mesquite & gramma grass

Is the land cultivated, grassland, or other? Grassland

If cultivated, is it dryland or irrigated farm land? (State acreage involved.) Not cultivated

Are there any natural streams, rivers, springs, ponds, and water holes on the land? If so, describe same  
None

State kind of merchantable timber, quality, and present condition, if any None

What irrigation ditches are on the land? If non, then distance of nearest one  
None within 10 miles

State the number of wells, depth and type on the land, whether used for domestic, irrigations, or other purposes  
2 producing oil wells, 5175' and 6497' in total depth

State nearest distance to city, town, or village limits and name of municipality  
Eunice, New Mexico, approx. 1 mi. northwest

Are there any existing or abandoned utility (electric, telephone, or telegraph) lines, railroads, public roads or highways, pipelines, borrow pits, material pits, cooperative irrigation ditches, reservoirs, airports, land strips, or trash dumps on the land? Yes. If so, please describe and give approximate location:  
Oil & salt water disposal lines

If any of the above are found on the land, are they a benefit or detriment to the land? Explain: No detriment

List all improvements, their location, and value (including, but not limited to, houses, barns, stables, their sizes and how built; wells and their depth and description; windmills; fences, their amount, kind, and length; and all other improvements) None

Name and address of present owner of improvements is: \_\_\_\_\_

\_\_\_\_\_ State if any trespass or waste has been done to the  
land, or to any existing natural products thereon, and in what manner, by whom if known, and how it detracts  
from the value of the land: None

Does the land have any recreational potential, such as cabin sites, etc.? Explain: None

Answer the following questions in specific category for which application is made by applicant:

BUSINESS LEASE :

What type of business is the land going to be used for by the applicant? \_\_\_\_\_

Or is the land being leased for speculative purposes, if known? \_\_\_\_\_

Estimate how much the parcel would lease for on a yearly basis for commercial purposes \_\_\_\_\_

List amounts for which parcels of fee land similarly situated lease for (monthly or annual rentals) \_\_\_\_\_

\_\_\_\_\_ If land applied for is within municipal limits, state type and

kinds of businesses or uses to which surrounding properties are being put \_\_\_\_\_

State what (type and kind) improvements are located on this land that are beneficial to and consistent with  
business or commercial use of this land \_\_\_\_\_

RIGHT OF WAY AND WATER EASEMENT:

Is this State land within a declared water basin? \_\_\_\_\_

Will the construction or use of this right of way (water easement) increase or decrease the value of surrounding  
lands? \_\_\_\_\_ How? \_\_\_\_\_

Have you examined the plat (survey for right of way) accompanying the application? \_\_\_\_\_

If yes, then is the acreage (width) requested sufficient or excessive for purposes of the right of way?  
\_\_\_\_\_

Are there any other rights of way (easements) that bisect or cross over the one being  
applied for? \_\_\_\_\_ What type and kind? \_\_\_\_\_

Are there any existing water wells within one mile of lands inspected? \_\_\_\_\_

If so, how many and how far distant therefrom? \_\_\_\_\_

If known, at what depth is fresh water known to exist in this area? \_\_\_\_\_

If known, what damage will be done, if any, to the tangible property of state's prior patentees or lessees of  
this land by reason of applicant's use in making and constructing of a right of way (water easement) as  
requested? \_\_\_\_\_

SALT WATER DISPOSAL SITES:

Have you examined the plat showing the disposal well(s) from which produced salt water is to be disposed of  
together with necessary pipelines and haul roads, if any? Yes

If known, what is the formation into which the salt water will be injected? San Andres

Will a pipeline, roadway, or other means of conveyance  
be necessary to dispose of the salt water in the instant application? Yes

If so, what? 6" PVC plastic flowline

What tangible surface damage, if any, will occur to other state lessees or patentees by the proposed salt water  
disposal site, roadway, or pipeline? None

Based upon your examination of the land applied for, is there an existing abandoned dry hole(s) located  
hereon? None To what depth, if known? \_\_\_\_\_

AFFIDAVIT

STATE OF NEW MEXICO  
COUNTY Lea )

ss

I am well acquainted with the character of said described land and that my personal knowledge of said land is such as to enable me to testify understandingly with regard thereto.

After having personally inspected the within described tract of land, I HEREBY APPRAISE THE SAME at and state the ACTUAL CASH VALUE of same for the purpose desired to be \$ 100.00 (indicate per acre, square foot, or other), and certify that I am not interested in said land or leasing or sale thereof.

Signed

*[Signature]*  
P. O. 610 Cottonwood Lane, Hobbs, New Mexico

Subscribed and sworn (affirmed) to before me this 16th day of March,  
19 90.

My Commission Expires: 10-15-90

*[Signature]*

NOTE: The Laws of New Mexico require that all statements in appraisements must be made from personal knowledge, and not upon information and belief; save only those with reference to the actual value of the land appraised. This appraisement must be sworn to before a Notary Public or County Magistrate.

District I - (505) 393-6161  
P.O. Box 1900  
Hobbs, NM 88241-1900  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Bezares Road  
Artesia, NM 87410  
District IV - (505) 827-7131

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

Originated 6/27/97

Submit Original  
Plus 1 Copy  
to Santa Fe

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY

Address: 122 WEST TAYLOR  
HOBBS, NEW MEXICO 88240

Phone Number: (505) 393-9174

Previous Operator(s): Agua Operating

Is the pit permitted: Yes  No

Unit Letter: C Section: 2 Township: 22S Range: 37E

County: Lea County

Location Name: Blinebry Drinkard Salt Water Disposal Well C-2

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: 5,300

Pit Type: 2-below ground redwood terminal tanks  
(Emergency Production, Workover Reserve/Drilling (greater than 6 months old), Flare, Blowdown, Separator, Dehydrator,  
Line Drip, BS&W/Tank Bottoms, Compressor, Piggings, Washdown, or other)

What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water)

Pit age (years): 30

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 21'-5" dia X 8'-7" Ht

CERTIFICATION

I hereby certify that the information submitted is true and correct to the best of my knowledge and belief.

Name: Roger Hall Title: Operations Engineer

Signature: Roger Hall Date: 10/30/97

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

District I - (505) 393-6161  
P. O. Box 1900  
Hobbs, NM 88241-1900  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

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

Originated 6/27/97

Submit Original  
Plus 1 Copy  
to Santa Fe

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY

Address: 122 WEST TAYLOR

HOBBS, NEW MEXICO 88240

Phone Number: (505) 393-9174

Previous Operator(s): Agua Operating

Is the pit permitted: Yes  No

Unit Letter: C Section: 2 Township: 22S Range: 37E

County: Lea County

Location Name: Blinebry Drinkard Salt Water Disposal System Well C-2

Number of wells to the pit: 1

Are the wells to the pit operated by one operator  or multiple operators

Total daily volume (in barrels) to the pit: None

Pit Type: Emergency

(Emergency, Production, Workover, Reserve/Drilling (greater than 6 months old), Flare, Blowdown, Separator, Dehydrator, 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): 30

Is the pit lined  or unlined

Type of liner (None, Synthetic, Clay): None

Is leak detection present: Yes  No

Is the pit netted: Yes  No

Pit dimensions (LxWxD): 127' X 38' X 7'

CERTIFICATION

I hereby certify that the information submitted is true and correct to the best of my knowledge and belief.

Name: Roger Hall Title: Operations Engineer

Signature: Roger Hall Date: 10/28/97

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

Permit No. H-69  
(For Division Use Only)

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

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 Rule 711(I)

Operator Name: Rice Engineering Corporation  
Operator Address: 122 W. Taylor Hobbs, New Mexico 88240  
Lease or Facility Name Blinebry-Drinkard SWD Well # C-2 Location C 2 22S 37E  
Size of pit or tank: 127' x 38' x 7' Deep Approx. 6000 BBLs

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

1) If any oil or hydrocarbons should reach this facility give method and time required for removal:  
Method: Vacuum truck  
Time: within 24 hours of discovery

2) If any oil or hydrocarbons reach the above-described facility the operator is required to notify the 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 S.A. Haktanir Title Division Manager Date 7-27-90  
Printed Name S.A. Haktanir Telephone No. 505 393-9174

FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected 8/1/90  
Inspected by [Signature]

Approved by \_\_\_\_\_  
Title \_\_\_\_\_  
Date \_\_\_\_\_

# RICE *Operating Company*

## Quality Procedure

### Procedure for Obtaining Soil Samples for Transportation to a Laboratory

**Scope:** This procedure outlines the methods to be employed when collecting soil samples that are to be transferred to a laboratory for analysis.

**Procedure:** Pin-Point and Composite Samples

1. Obtain sterile sampling containers from the soil testing laboratory. For collecting TPH and BTEX, the sample jar may be a clear 4 oz. Container with a Teflon lid. For PAH test, use an amber 4 oz container with a Teflon lid.
2. Prepare a Sample Plan designating the sample location, sample number, tests required.
3. Complete a 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 lab.
4. Pre-label the sample collection jars. Include all information except time of collection.
5. For pin-point samples:
  - a. At the sample location, open the designated container.
  - b. With decontaminated sampling utensils, such as stainless trowels, coring devices, etc., procure the soil sample.
  - c. Use new latex gloves with each sample to minimize cross-contamination.
  - d. Pack the soil tightly into the container leaving the top slightly domed. Screw the lid down tightly.
  - e. Enter the time of collection onto the sample collection jar label.
6. For composite samples:
  - a. Procure equal size soil samples from each defined point of the composite.
  - b. In a decontaminated vessel, mix the collected soil until the mixture is homogeneous.
  - c. Fill and label the sample jar as defined in #5 above.
7. Place the sample directly on ice for transport to the laboratory.
8. Complete the Chain of Custody form to include the collection times for each sample. Deliver all Samples to the laboratory.

**Documentation:** the testing laboratory shall provide the following information:

1. Client, Project and Sample name
2. Signed copy of the original Chain of Custody Form including the time the sample was received by the lab.
3. Results of the requested analyses
4. Test Methods employed
5. Quality Control methods and results

# RICE *Operating Company*

## Quality Procedure

### Procedure for Conducting Field Chloride Analysis

**Scope:** This procedure is to be used for field testing and on-site remediation information.

**Procedure:**

1. Extract the Chlorides From the Soil Sample.
  - a. Measure 50 g. (+/- 0.1 g.) of homogeneous soil sample (no rocks, plants, etc.) into a clean 500 ml flask.
  - b. Pour 50 ml Distilled Water into the flask. This is a 1:1 ratio extraction.
  - c. Cap the flask and shake for 5 minutes and then allow to rest for 5 minutes.
  
2. Titration for Chloride Concentration:
  - a. Pour liquid into a filtering cartridge to separate solids from the liquid.
  - b. Force liquid through filter and into a graduated cylinder.
  - c. Pour 10 ml of liquid into a titration flask (100 ml beaker or flask) and add 2 drops of Potassium Chromate indicator solution.
  - d. Titrate (add reagent drop by drop) the sample with 0.282 N Silver Nitrate Reagent until end point, when the solution turns from yellow to red.
  - e. Record volume, ml, of reagent used.
  
3. Calculate Chloride Concentration of Soil
  - a. Silver Nitrate 0.282 N: 1 ml reagent = 10 mg Cl
  - b. 1 ml reagent = 10,000 mg/l Cl
  - c.  $(\text{Volume of Reagent} / \text{Volume of Sample Extract}) \times 10,000 = \text{mg/l Cl}$ .

# RICE *Operating Company*

## Quality Procedure

### Procedure for Conducting Field TPH Analysis

**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.

**Scope:** This procedure is to be used for field testing and on-site remediation information.

**Procedure:** As fully described in the "MEGA" TPH Analyzer Instruction Manual, Section E: Calibrate MEGA-TPH daily according to procedure in Instruction Manual.

1. Zero the MEGA-TPH Analyzer
  - a. Zero the High Range
  - b. Zero the Low Range
  
2. Extract the TPH from the soil sample
  - a. Measure 20 g. (+/- 0.1g.), of homogeneous soil sample (no rocks, plants)
  - b. For a wet sample, add 5g. silica gel or anhydrous sodium sulfate after weighing.
  - c. Dispense 20 ml Freon-113 into the sample vial
  - d. Cap the vial and shake for 5 minutes
  - e. Pour liquid into a filtering cartridge to separate solids from the liquid.
  - f. Force liquid through filter and into a 10 mm quartz cuvette. Discard the first ½ -1 ml and collect the next 2.5-3 ml in the cuvette.
  - g. Place the cuvette of extract in the cell compartment of the MEGA-TPH and read the concentration in mg/l on the LOW range. If the concentration is greater than 1000 mg/l on the LOW range, pipette the extract directly into the small (1 mm) cuvette. Read the concentration on the HIGH range channel, multiplying the display X 10.
  - h. If this reading on the HIGH range is > 1000 mg/l, then dilution is recommended. Using a glass pipette, transfer 1.0 ml of the sample extract into a 10 ml glass volumetric flask and add Freon-113 to the 10 ml mark. Shake. Pipette this solution into a clean, small cuvette. Read the concentration on the HIGH range, multiply the display X 100 and apply the correction calculation.
  - i. Correction calculation to be used if other than 20 g of soil and 20 ml Freon-113 were used:

$$\text{Soil conc'n} = (\text{solvent vol./sample wt}) \times \text{instrument reading}$$

Mega-TPH PETROLEUM  
HYDROCARBON ANALYZER  
INSTRUCTION MANUAL\*

October, 1992

\* Applicable to Mega-TPH Analyzers with S/N: 1139 and higher.

TABLE OF CONTENTS

Section

- A Description of Mega-TPH Analyzer
- B Operating Principles
- C Controls
- D Specifications
- E TPH Analyses - Field Procedure
- F Calibration
- G Trouble-Shooting

Appendices:

- A. Warranty
- B. EPA Method 418.1
- C. Formulating Calibration Standards

Index

Index

Board Layout..... F.6

Calibration:

- Accuracy..... A.1, F.5
- Factory..... F.1
- Procedure..... F.2
- Standards, generation of..... App. C

Circuit Boards..... F.6

Controls..... C.1, C.2

Correction Calculation..... E.3

Cuvettes:

- Description..... A.1
- Orientation..... E.1, F.2
- Part Numbers..... A.2

Detectors..... B.2, D.1

Digital Displays..... C.1, C.1.a

EPA Method 418.1..... A.1, F.1

Field Sampling Kit..... A.2

Infrared Theory..... B.1 - B.2

On-Site TPH Analyses..... E.1

Optical System..... B.2

Part Numbers of Accessories..... A.2

Petroleum Products..... E.1

Printed Circuit Boards..... F.6

Recorder Connectors..... C.1

Reference Signal..... A.1, B.3

Serial Number .....Cover  
SPAN Dials.....C.1  
Specifications.....D.1  
Trouble-Shooting.....G.1-G.3  
Warranty .....A.2, App. A  
Zero:  
    Dials .....C.1  
    Before analysis.....E.1-E.2

OPERATING INSTRUCTIONS FOR THE  
MEGA-TPH ANALYZER

A. DESCRIPTION

1. INSTRUMENT DESCRIPTION

The Mega-TPH Analyzer is a wavelength-specific, dual channel, portable infrared filterometer.

The analytical wavelength used to quantify Total Petroleum Hydrocarbons is 3.4  $\mu\text{m}$  as is specified in EPA Method 418.1, "Petroleum Hydrocarbons, Total Recoverable".<sup>1</sup> The reference wavelength, which is out of the C-H stretch band, provides a signal which is constantly ratioed against the analytical signal for increased electronic stability.

The sample cells are standard quartz transmission cuvettes with a 10 mm pathlength for low TPH concentration, and 1 mm pathlength for high TPH concentrations. The 1 mm cells are used with a metal spacer, manually inserted into the sample cell chamber.

The Mega-TPH Analyzer is factory calibrated with EPA Method 418.1 Reference Oil. The low range is calibrated with 0-1,000 mg/l TPH; the high range is calibrated in the range of 0-10,000 mg/l TPH. Calibration accuracy is  $\pm 7.5\%$ .

With a 10:1 dilution, the sample extract can be analyzed in the range of 0-100,000 mg/l (10%) TPH. If needed, subsequent dilutions can expand the range even further. Such dilutions must have the following equation applied to the digital read-out to correct for concentration differences:

$$C = R \frac{V}{w}$$

where R = instrument read-out in mg/l  
V = solvent volume in ml  
w = sample weight in grams  
C = concentration of TPH in mg/l

The Analyzer can be operated from any 12 volt DC source capable of supplying at least 1 amp such as a battery pack or automobile battery. It can also operate from standard AC power in the laboratory using an adapter that is supplied as standard equipment.

---

<sup>1</sup>The Manual of Methods for Chemical Analysis of Water and Wastes", Environmental Monitoring and Support Lab, Environmental Research Center, Cincinnati, OH 45268.

## 2. UNPACKING

The Mega-TPH Analyzer is carefully packed for shipment. Enclosed in a rugged carrying case, the analyzer (P/N: 45-001-01) comes equipped with the following:

<u>Qty</u>	<u>P/N</u>	<u>Description</u>
2	CU-0001	10 mm Cuvettes
2	CU-0002	1 mm Cuvettes
1	CU-0003	1 mm Spacer
1	PS-0004	Vehicle Lighter Adapter Cable
1	PS-0001	AC/DC Power Converter
1	SY-0002*	Air Syringe
1	38-39-00*	Reservoir Sealer Assy.
1	38-31-00*	Sample Rack
1	SL-0001*	Spatula
1	21-15-01	Instruction Manual

\* Collectively referred to as a Field Sampling Kit

Upon receipt of the analyzer, check to determine that all parts are present. If visible damage is apparent, save all shipping containers and documents, notify the carrier, and request an inspection report from them.

## 3. WARRANTY AND SERVICE

The Mega-TPH is fully warranted against defects in parts and workmanship for a period of one year after shipment from the factory. If service is required in the interim, contact General Analysis Corporation Service Dept. for the use of a loaner unit while the unit is being repaired at the factory. Call 1-800-327-2460 and request the Service Dept.

See the Warranty Card for more specific terms and conditions. (Appendix A)

## B. OPERATING PRINCIPLES

### 1. INFRARED THEORY

The Mega-TPH Analyzer is based on infrared absorption, a measuring technique long used in laboratories to identify and quantify materials. Most materials have characteristic infrared spectra, i.e. they absorb infrared energy at certain frequencies called absorption bands. It is possible to compute the concentration of each of the materials by measuring the intensity of the characteristic infrared absorption bands.

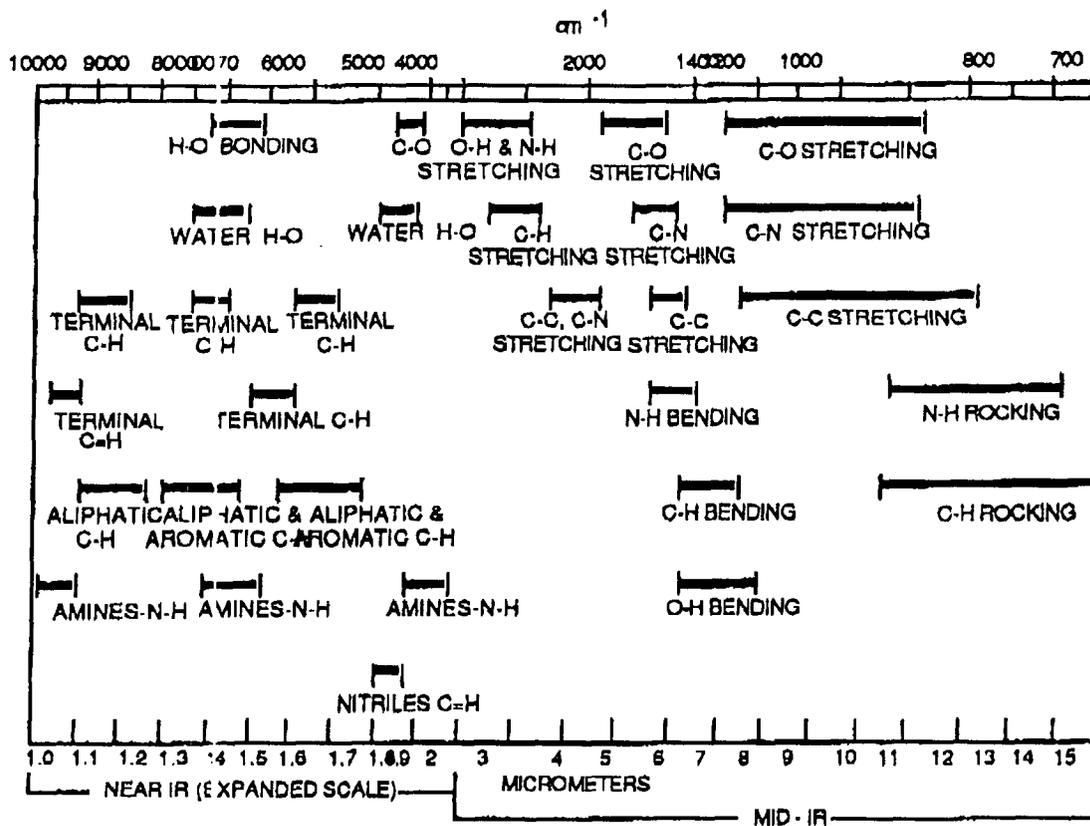


Figure B.1: Infrared Functional Group Chart

The computation to determine concentration from the absorption measurement is based upon the Beer-Lambert law, which states that concentration is directly proportional to the absorbance of the sample when the optical pathlength is held constant.

$$A = abc = -\log (I/I_0)$$

- A = Absorbance
- I = % Transmission with Sample
- I<sub>0</sub> = % Transmission without Sample
- a = Absorption coefficient
- b = Sample Pathlength
- c = Sample Concentration

## 2. OPTICAL SYSTEM

The optical system of the Mega-TPH is shown below.

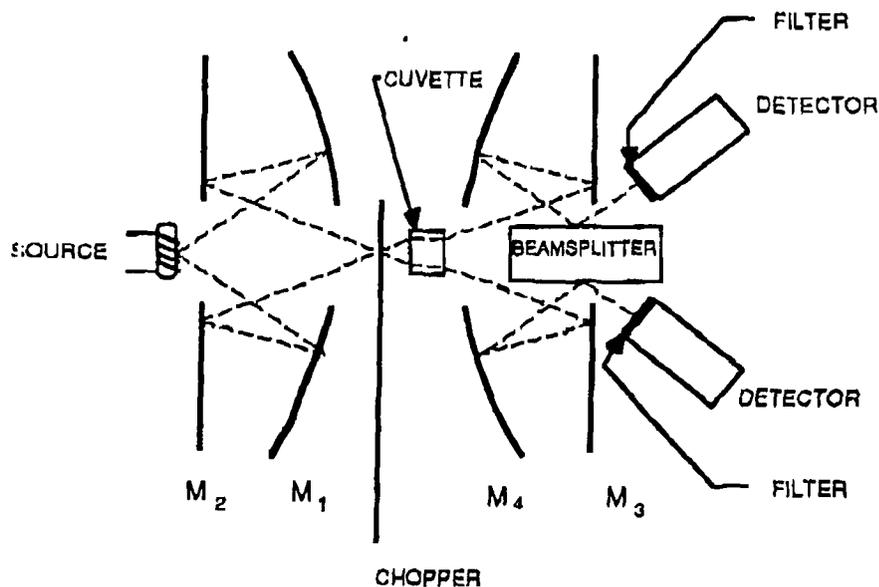


Figure B.2: Optical System

A pair of short-focal-length, large aperture mirrors collect radiation from a glowing wire source. A chopper, driven by a clock motor (the only moving part in the instrument), chops all of the beams simultaneously as they are focused into the quartz cuvette. The radiation exiting the cuvette is collected by a pair of mirrors and split into segments - one for the reference wavelength and one for the analytical wavelength. Each segment is focused on an individual detector which has an infrared filter as its window.

713 366 8804

The output from the analytical detector is fed to two linearizer boards - one for the HIGH range and one for the LOW range. In this way, the signal to each range can be optimally linearized during factory calibration.

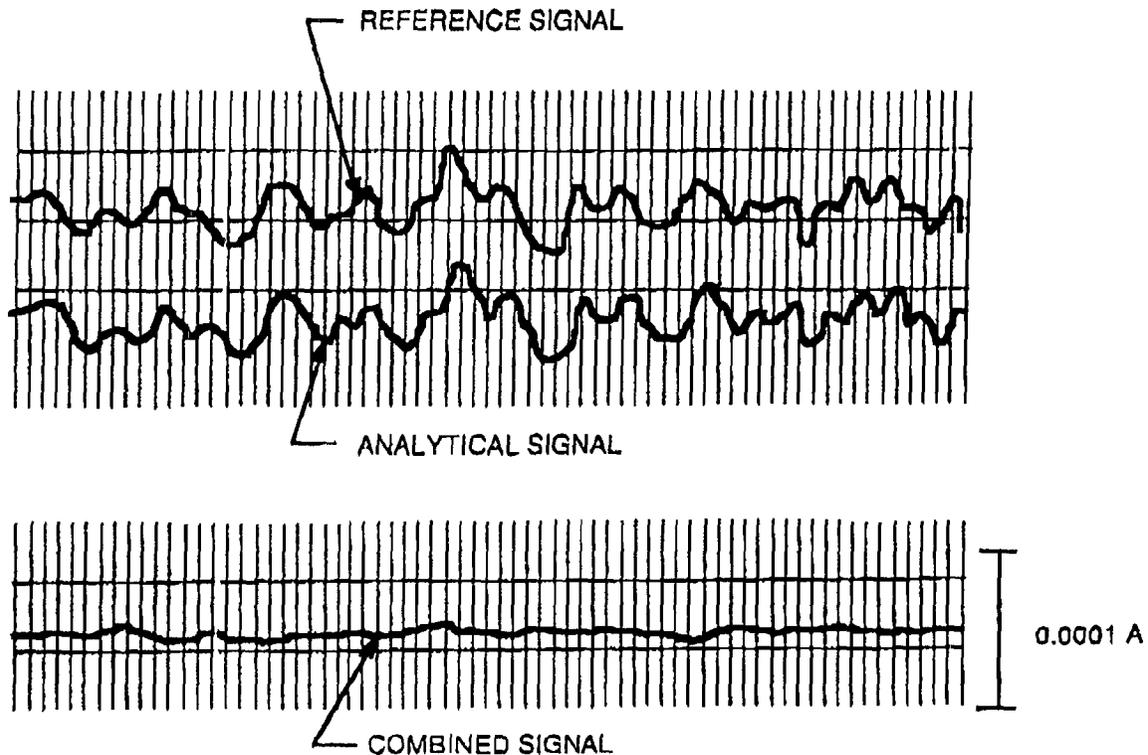


Figure B.3: Noise Reduction from Simultaneous Beam Chopping

The large aperture, equivalent to  $f/0.6$ , results in very high energy throughput. This, plus the fact that the reference detector and analytical detector see radiation from the source at exactly the same instant of time act to cancel out short-term source variations, and produce an exceptionally high signal-to-noise ratio with very little drift (Fig. B.3).

## C. CONTROLS

### 1. FRONT PANEL CONTROLS

<u>Control</u>	<u>Function</u>
POWER	Main power switch; also functions as a 1 amp circuit breaker.
DIGITAL DISPLAY	(1) Display on left-hand side indicates the HIGH range (0-10,000 mg/l TPH). Multiply the display reading X 10 to obtain the TPH concentration. (If a 10:1 dilution is made on the extract, multiply the display X 100.)  (2) Display on right-hand side indicates the LOW range (0-1,000 mg/l TPH). Read the TPH concentration directly from the display if the GAC extraction method is followed, i.e., 20g soil plus 20 ml Freon-113.
ZERO DIALS	Each display is adjusted to zero with the appropriate cuvette, filled with Freon-113, in the cell holder.
SPAN DIALS	Factory set during calibration. They convert the infrared absorbencies to the corresponding mg/l concentration reading. SPAN dials are electronically independent of the ZERO controls.
RECORDER CONNECTORS	Each channel (HIGH and LOW range) has a corresponding 0-10V DC output connector for use with a strip chart recorder or datalogger, if desired.
COVER PLATE	Circuit boards are easily accessible by removing the small cover plate on the front panel. Boards must be installed in their proper slots; see (Fig.F.2).

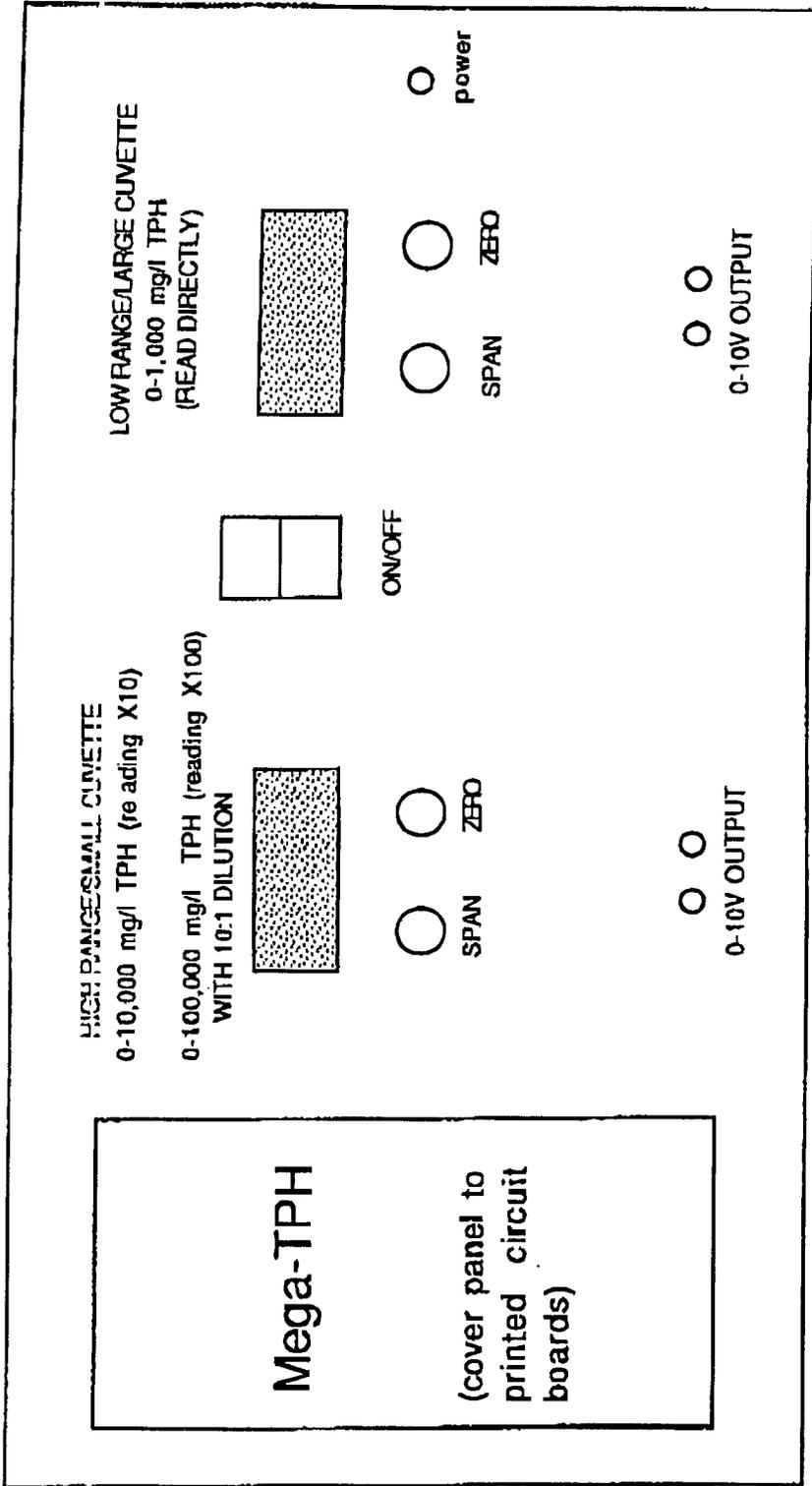


Fig. C.1: Mega-TPH Control Panel

## D. MEGA-TPH SPECIFICATIONS

**Type:**

Synchronous dual wavelength infrared analyzer

**Analytical Wavelengths:**

3.4 $\mu$ m

**Noise In Absorbance Units:**

at 3.4 $\mu$ m with cell

Fast (one second) Response  $1 \times 10^{-4}A$

Slow (16 seconds) Response  $3 \times 10^{-5}A$

**Drift (24 Hours):**

Less than  $5 \times 10^{-4}A$  for an ambient temperature of  $25^{\circ} \pm 10^{\circ}C$

**Operating Temperature Range:**

40 $^{\circ}$  to 115 $^{\circ}$  F

**Relative Humidity:**

0-95% non-condensing

**Power Requirement:**

12VDC, 120 VAC or 240 VAC, 50/60 Hz.

**Electrical Output:**

0-10VDC

**Readout:**

3 1/2 digit liquid crystal display

**Dimensions:**

7" H X 17.5" W X 10.5" D

**Weight:**

25lbs.

**Source:**

Nichrome wire operated at a relatively low temperature (800 $^{\circ}C$ ) to insure long life and uniform output

**Detectors:**

Pyroelectric - type lithium tantalite. The window over each detector is a narrow bandpass infrared filter.

## E. TPH ANALYSES

### 1. ON-SITE TPH ANALYSES

Because the Mega-TPH Analyzer may be set up to operate at the site of an excavation or location where numerous soil or water analyses are required, it can save countless hours of time that would normally have elapsed between sample collection and the return of laboratory results. On-site analyses can help eliminate errors due to sample degradation. In addition, the ability to obtain prompt answers can help direct the sampling strategy around the site, often reducing the overall number of samples needed.

### 2. PETROLEUM PRODUCT

Differences in composition are common in petroleum products that are derived from similar crude stocks. For example, two Number 2 diesel fuels will have similar fuel properties (viscosity, boiling point, residue, etc.) but may differ significantly in the proportions of individual compounds that they contain. Changes in composition can also occur in samples from a common source since exposure to air and sunlight can cause the light (aromatic) components to be lost due to vaporization.

Such weathered products, and other heavy petroleum compounds, do not emit substantial organic vapors under ambient conditions. Monitoring of these heavier fuels (diesel, kerosene, crude oil, etc.) relies on the measurement of the semi-volatile fractions. These heavier hydrocarbons can be extracted from the soil with Freon-113<sup>TM</sup> and accurately measured with the Mega-TPH infrared analyzer. Using General Analysis Corporation's extraction method which is based on the EPA Method 418.1 procedure, a soil sample can be analyzed for total petroleum hydrocarbon (TPH) content in only 15 minutes. The field procedures are as follows:

### PROCEDURE FOR TPH EXTRACTION FROM SOIL

#### 1. ZERO THE MEGA-TPH ANALYZER

Note: Each channel must be zeroed independently with the corresponding cuvette, filled with cleaned Freon, in place. Since the cuvettes are uni-directional, the optical characteristics may differ depending on which side faces the source. For consistency, the lot number should always be facing the operator's right hand side.

The 1mm cuvette slides down here in the spacer with the lot number facing to the right.

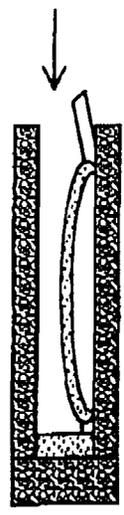


Fig. E.1: The 1mm spacer

The cuvette and spacer are then placed in the instrument's sample well in the same manner, with the 1mm cell toward the operator's left-hand side.

- FOR USE OF THE FEDERAL BUREAU OF INVESTIGATION AND OTHER AGENCIES OF THE DEPARTMENT OF JUSTICE
- A. To zero the HIGH range channel, process the Freon thru a silica gel cleaning cartridge into a small (1 mm) cuvette. With the small cuvette and spacer in place in the cell compartment, adjust the zero display dial for the HIGH range to 000.
  - B. To zero the LOW range channel, process the Freon thru a silica gel cleaning cartridge into a large (10 mm) cuvette. With the 1 mm spacer removed, place the large cuvette in the cell compartment and adjust the zero display dial for the LOW range to 000.

## 2. EXTRACTION OF TPH FROM SOIL

1. Weigh 20 g soil into a tared 40 ml glass vial and record the weight to the nearest 0.1 g.
2. If the soil sample is wet, add up to 5 g silica gel (60-200 mesh chromatographic grade) so that the sample, after shaking, appears dry and free flowing.
3. Dispense precisely 20 ml of Freon-113 into the glass vial and cap it. (If necessary, wipe the top edge of the vial and the septum clean in order to allow a leak-tight seal.) Wet samples treated with silica gel may require additional Freon-113. It is recommended that sufficient Freon be added so that some covers the sample. Record the exact volume of Freon added to allow for calculating the correct concentration, as detailed below.
4. Shake the sample vigorously for 5 minutes. Let stand 1 minute.
5. Pour the liquid into a plastic sample reservoir (with filter cartridge attached) leaving as much of the soil as possible in the glass extraction vial.
6. Close the plastic sample reservoir with the metal seal. Attach the glass pressurizing syringe and pressurize the reservoir so that the extract is forced through the filter cartridge dropwise into a 10 mm quartz cuvette (large cuvette).
7. Discard the first 0.5 to 1 ml (1/6 to 1/3 of the cuvette volume) and collect the next 2.5 to 3 ml in the 10 mm (large) cuvette.
8. Place the 10 mm cuvette containing the extract in the cell compartment of the Mega-TPH and read the concentration in mg/l on the LOW range.

- a. If the concentration is greater than 1,000 mg/l on the LOW range, pipette the extract directly into the small (1 mm) cuvette. Read the concentration on the HIGH range channel, multiplying the display X10.
- b. If this reading on the HIGH range is greater than 1000 mg/l, then dilution is recommended. Follow directions below for a 10:1 dilution:
1. Using a glass pipette, transfer 1.0 ml of the sample extract into a 10 ml glass volumetric flask.
  2. Add Freon-113 to the 10 ml mark. Shake.
  3. Pipette this solution into the rinsed out small (1 mm) cuvette.
  4. Read the concentration on the HIGH range, multiply the display X 100, and apply the correction calculation.
- c. Correction calculation to be used if other than 20 g of silica and 20 ml Freon-113 were used:

$$\text{Soil conc'n} = \frac{\text{solvent vol.}}{\text{sample weight}} \times \text{Instrument reading}$$

F. CALIBRATION

1. FACTORY CALIBRATION

The Mega-TPH Analyzer is factory calibrated in two ranges. The LOW range is calibrated at 0 - 1,000 mg/l TPH, and the HIGH range at 0 - 10,000 mg/l TPH.

The calibration standards are made in accordance with EPA Method 418.1. The mixture, referred to as EPA Reference Oil, is composed of the following:

- 37.5 % (by weight) n-hexadecane
- 37.5 % (by weight) isooctane
- 25.0% (by weight) chlorobenzene

Concentrations of EPA Method 418.1 Reference Oil used during factory calibration are listed below. Both the LOW range and HIGH range are calibrated to within  $\pm 7.5\%$  of the actual concentration. If more stringent tolerances in calibration are required for laboratory analyses, a calibration chart plotting actual vs. measured concentrations can be generated by the user. This step is not required when using the analyzer as a field screening tool.

CONCENTRATIONS USED DURING FACTORY CALIBRATION

<u>LOW Range</u> <u>0 - 1,000 mg/l TPH</u>	<u>HIGH Range</u> <u>0 - 10,000 mg/l TPH</u>
100	1,000
200	2,500
250	5,250
300	7,500
400	10,000
500	
750	
1,000	

There are 6 printed circuit boards that are set at the factory during calibration of the instrument. These can be accessed by removing the small top panel on the instrument. A voltmeter is used to obtain voltages at various test points on the boards, and adjustments are made to specific switches and trimpots to bring the instrument into calibration.

## 2. RE-CALIBRATION

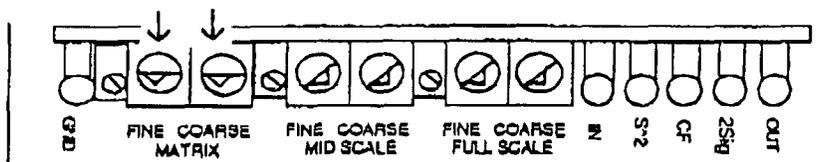
The customer can perform his own re-calibrations using other compounds as standards, if he so desires. (The unit can also be sent back to the factory for re-calibration with EPA Reference Oil. A fee of \$200 plus shipping one-way, will apply. For custom calibrations, please contact the Marketing Department.)

Refer to Figure F.1 for the positioning of the boards and various test points.

Step 1, "Setting the Demodulator Boards", and Step 2, "Setting the Zero" require that a cuvette filled with cleaned Freon-113™ be in place in the sample well. This ensures the correct transmission of infrared light into the optical system. (To clean Freon-113, i.e., remove trace moisture and polar hydrocarbons that may be present, pass the solvent through a plastic reservoir filled with a silica gel cleaning cartridge, or pour it over granular chromatographic grade silica gel contained by a filter paper in a glass funnel.)

## 3. STEP-BY-STEP PROCEDURE FOR RE-CALIBRATION

- A. Set SPAN and ZERO dials on front panel to 500. Remove the 4 screws holding the small cover over the printed circuit boards. Remove cover.
- B. Re-set all FINE and COARSE MATRIX switches to "0" position on Boards #2 and #4.



- C. Set Demodulator Boards (#5 & 6)
  1. Fill large (10 mm) cuvette with cleaned Freon-113 and place it in the sample well with the lot number facing your right-hand side.

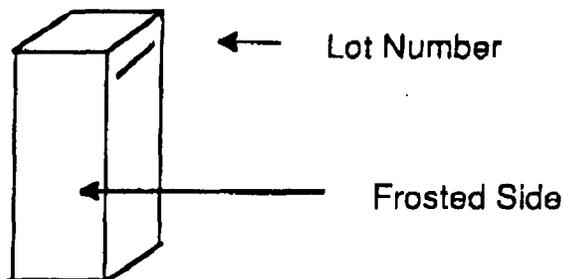


Fig. F.1: Orientation of 10 mm Cuvette

2. With voltmeter set on DC mode, connect black probe to ground (GND) on Board #1. Put the red probe on test point (TP) 3 on Board #5. The voltage should read between 5 and 9 volts DC. Record the voltage.
3. Move the red probe to TP3 on Board #6. (Leave the black probe on GND.) The voltage reading should be within  $\pm 0.05V$  of the reading recorded previously for TP3 on Board #5. If it is not, use a trimpot screwdriver to first adjust the COARSE internal gain switch on Board #6 then the FINE internal gain switch on Board #6 to bring the voltage within range.

#### D. Zero the Instrument

1. Zero the LOW range: Leave the 10 mm cuvette filled with cleaned Freon-113 in place. Connect red voltmeter probe to IN on Board #2; leave the black probe on GND. Using a trimpot screwdriver, adjust the ZERO switch on Board #1 until voltage reading is near 000. For final zero adjustment, turn the blue trim pot labeled "ZERO" on Board #1 until voltmeter reads 000 volts DC.

Now, turn the zero dial on the front panel under the digital display labeled (LOW RANGE) to 000.

2. Zero the HIGH Range: Remove the 10 mm cuvette. Replace it with the 1 mm cuvette filled with cleaned Freon-113, and a spacer. Move the red voltmeter probe to IN on Board #4; leave the black probe on GND. Using a trimpot screwdriver, adjust the ZERO switch on Board #3 until voltmeter readings is near 000. For final zero adjustment, turn the blue trimpot labeled "ZERO" on Board #3 until voltmeter reads 000 volts DC.

Now, turn the zero dial on the front panel under the digital display labeled HIGH RANGE to 000.

#### E. Set SPANS for the Low Range

1. Fill the large 10 mm cuvette with the full scale standard (e.g. 1,000 mg/l). (No voltmeter is needed for this step.) Adjust the SPAN switch on Board #1 with a trimpot screwdriver until the digital display for the LOW RANGE is near 1000. Make the fine adjustment with the SPAN dial under the digital display for the LOW RANGE until the instrument reads correctly (1000 mg/l).

2. Put one of the voltmeter probes on 2 SIG on Board #2. Put the other probe on S<sup>2</sup> on Board #2. Using a screwdriver, adjust the FULL SCALE switches labeled COARSE, then FINE to get a voltage reading of 000 volts DC. The final adjustment will be made to the sunken blue trimpot labeled "TRIM" located to the left of the FULL SCALE switches on Board #2.
3. Rinse the 10 mm cuvette. Fill it with the mid-scale calibration standard (e.g., 500 mg/l). On Board #2, adjust the MID-SCALE switches labeled COARSE and FINE, then the sunken blue trimpot to the left of the MID-SCALE switch until the digital display under the LOW RANGE reads correctly (500 mg/l).
4. Rinse the 10 mm cuvette. Fill it with the lowest concentration of the standard (e.g., 100 mg/l). Make fine adjustments to the MID-SCALE trimpot until the reading on the digital display of the LOW RANGE reads correctly (100 mg/l).
5. Check the accuracy of the calibration using 250 mg/l, 500 mg/l, 750 mg/l, and 1000 mg/l standards. Unit should be within  $\pm 7.5\%$ . If not, make fine adjustments to the MID-SCALE switches and trimpot on Board #2. Finally, the SPAN dial on the front panel can be adjusted slightly to bring the readings into range, if needed.

F. Set SPANS for the HIGH Range

1. Remove the 10 mm cuvette. Use only the 1 mm cuvette and spacer during calibration of the high range. After rinsing the cuvette, allow it to air dry before introducing the next standard.
2. With the highest concentration standard (e.g., 10,000 mg/l) in place adjust the SPAN switch on Board #3 using a trimpot screwdriver until the digital display under the HIGH RANGE display reads correctly (i.e., 10,000 mg/l). Use the SPAN dial on the front panel under the HIGH RANGE to fine tune the reading to 10,000 mg/l.
3. Put the voltmeter probes on 2 SIG and S<sup>2</sup> on Board #4. Adjust the FULL SCALE switches labeled COARSE and FINE until the voltmeter reads near 000 volts DC. Use the sunken blue trimpot for the final adjustment.
4. Rinse the cuvette; fill with the mid-scale standard (e.g., 5,000 mg/l). On Board #4 adjust the MID-SCALE switches labeled COARSE and FINE and the blue trimpot until the digital display on the front panel reads 5,000 mg/l.

5. Rinse the cuvette, fill the 1,000 mg/l standard. On Board #4 adjust the MID-SCALE switches labeled COARSE and FINE and the blue trimpot until the digital display on the front panel reads 1,000 mg/l.
6. Check the calibration with the following concentrations of standards: 2,500 mg/l, 5,000 mg/l, 7,500 mg/l, and 10,000 mg/l.

Instrument readings should be within  $\pm 7.5\%$  of calibration. If not, make fine adjustments to the MID-SCALE switches and trimpot on Board #4. Finally, the SPAN dial on the front panel can be adjusted slightly to bring the readings into range, if needed.

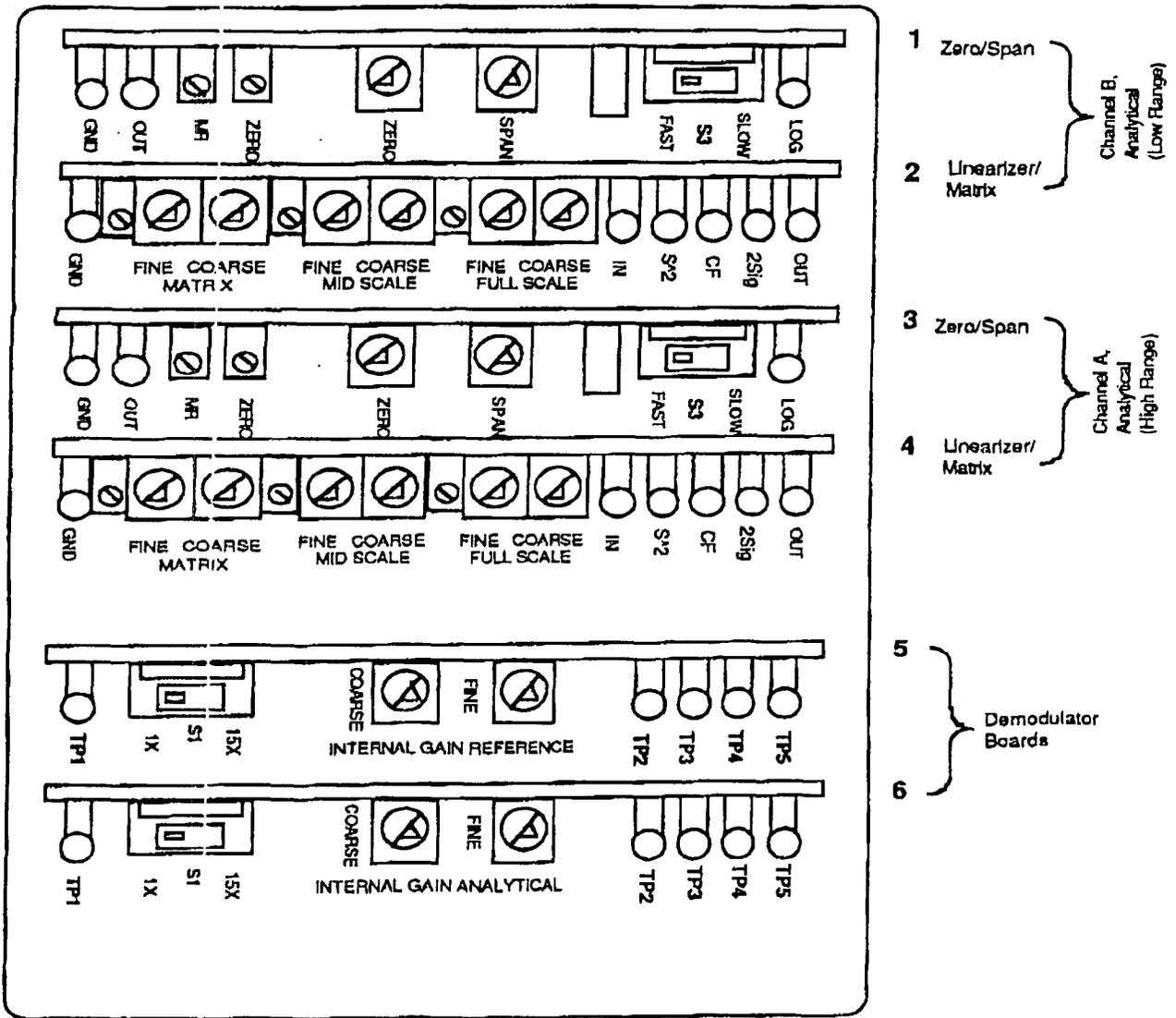


Fig. F.2: Mega-TPH Internal Processing Controls<sup>1</sup>

<sup>1</sup>Boards should remain in their factory-set slot positions.

Mega-TPH TROUBLESHOOTING GUIDE

GAC Service Department

1-800-327-2460

<u>PROBLEM</u>	<u>REASON</u>	<u>SOLUTION</u>
1. Digital display reads about 1400 mg/l, but the sample is thought to be more highly contaminated.	a) The channel is saturated at about 1400 mg/l. (The instrument is pegged out.)	a) Dilute the sample or, if the sample is in the 10 mm cuvette, pipette directly into the 1 mm cuvette and see if reading goes on scale (between 0-10,000 mg/l). If not, a 10:1 dilution is recommended. Serial dilutions may be needed if the TPH level is greater than 100,000 ppm
2. Cannot zero the instrument	a) 1) Optical path may be unfocused. 2) Boards may be loose.	a) 1) Insert a clean cuvette (no fingerprints) filled with Freon-113 that has been run through a silica gel cleaning cartridge. 2) Remove small top panel. Reseat boards securely in their respective slots.
b) High reading on digital display (e.g. 50-500 mg/l).	b) Freon may be contaminated.	b) Hydrocarbons may leach from some types of plastics, such as low density polyethylene bottles and build up in the Freon.  Note: During the extraction process it is also important not to use components that may leach hydrocarbons. We recommend GAC ExtractPaks.
c) Low readings on digital display: can't adjust ZERO dial enough.	c) Internal zero may have drifted	c) Follow instructions on page F.3 to zero both the HIGH and LOW ranges (if the voltages are > 0.1 volt DC) No re-calibration is needed after adjusting internal zero.

<p>d) Very high readings on the digital display (e.g., &gt; 1400 mg/l). Won't change by adjusting the SPAN or ZERO dials.</p>	<p>d) 1) Boards may be loose. 2) Chopper motor may be disconnected. 3) Source may be burned out.</p>	<p>d) 1) Remove small top panel and re-seat boards. 2) Remove the entire top panel. Re-connect the plastic connector directly behind the chopper blade. 3) Call GAC Service Dept. (203) 652-6999.</p>
<p>e) Reading fluctuates widely and rapidly (e.g. 141, 86, 162, 92 ...).</p>	<p>e) Chopper motor may be out of sync.</p>	<p>e) Remove entire top panel. A blinking red LED on the power board indicates that the chopper motor is out of sync. Turn the unit off for at least 5 minutes. Turn the unit on and wait 2 minutes; if LED doesn't go off make adjustment to the trimpot on the power board. With voltmeter on TP8 and GND adjust blue trimpot to approx. 1.5 V DC. When voltage is steady go to TP9 and adjust trimpot to approx. 2.0V LED should go off.</p>
<p>f) 000 is on digital display; won't change with or without cuvette or by adjusting SPAN dial.</p>	<p>f) Board may be loose.</p>	<p>f) Remove small top panel and re-seat boards securely in slots.</p>
<p>3) Cannot get power to the instrument. a) ....using portable battery pack or car's cigarette lighter.</p>	<p>a) 1) Fuse in cigarette lighter adapter cable may be blown. 2) Cigarette lighter adapter cable may be bad.</p>	<p>a) 1) Replace fuse (obtain locally). 2) Call GAC and order a new cable: P/N PS-0004.</p>
<p>b) ....using portable battery pack.</p>	<p>b) Battery may need recharging.</p>	<p>b) Re-charge portable battery after every use, but do not leave the battery on charge continuously when the pack is not being used.</p>

Note: Each range must be zero'd independently with the correct cuvette filled with cleaned Freon-113 in place in the sample well. Use only the 10 mm (large) cuvette when using the LOW RANGE. Use only the 1 mm cuvette with spacer when reading the HIGH RANGE.

(Although both digital displays will show readings, only the channel being utilized at the time e.g., HIGH RANGE with the 1 mm cuvette, will have valid readings. This is due to the different focal points the cuvettes have in the instrument's optical system.)

**gac** GENERAL ANALYSIS CORPORATION

---

## TPH ANALYZER

### ONE-YEAR LIMITED WARRANTY

THIS WARRANTY FOR THE TPH ANALYZER EXTENDS TO THE ORIGINAL PURCHASER OF THE PRODUCT.

**WARRANTY DURATION:** The GAC TPH Analyzer is warranted to the original purchaser for a period of one (1) year from the original shipping date.

**WARRANTY COVERAGE:** The GAC TPH Analyzer is warranted against defective materials or workmanship. *This warranty is void if the product has been damaged by accident, unreasonable use, neglect, improper service or other causes not arising out of defects in material or workmanship.*

**WARRANTY DISCLAIMERS:** *Any implied warranties arising out of this sale, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the above one (1) year period. The above warranty is the exclusive remedy for the purchaser and General Analysis shall not be liable for loss of use of the product or other incidental or consequential costs, expenses or damages incurred by the purchaser or any other user.*

Some states do not allow the exclusion or limitation of implied warranties or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

**WARRANTY PERFORMANCE:** During the above one (1) year warranty period, if the analyzer fails to work properly when used under normal conditions, we will repair or at our option, will replace it free of charge. You must pay the cost of sending the analyzer to us. We will pay the cost of returning the repaired or replaced analyzer to you.

To obtain warranty service, please return the product in its original packaging, enclosed in another shipping container, and ship via UPS to:

**General Analysis Corp, 140 Water St., S. Norwalk, CT 06856**

For questions or comments about your product please call 1-800-327-2460—9-5 EST—Monday-Friday.

## APPENDIX B

### PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE

#### Method 418.1 (Spectrophotometric, Infrared)

STORET NO. 45501

1. Scope and Application
  - 1.1 This method is for the measurement of fluorocarbon-113 extractable petroleum hydrocarbons from surface and saline waters, industrial and domestic wastes.
  - 1.2 The method is applicable to measurement of light fuels, although loss of about half of any gasoline present during the extraction manipulations can be expected.
  - 1.3 The method is sensitive to levels of 1 mg/l and less, and may be extended to ambient monitoring.
2. Summary of Method
  - 2.1 The sample is acidified to a low pH ( $< 2$ ) and serially extracted with fluorocarbon-113 in a separatory funnel. Interferences are removed with silica gel adsorbant. Infrared analysis of the extract is performed by direct comparison with standards.
3. Definitions
  - 3.1 As in the case of Oil and Grease, the parameter of Petroleum Hydrocarbons is defined by the method. The measurement may be subject to interferences and the results should be evaluated accordingly.
  - 3.2 Oil and Grease is a measure of biodegradable animal greases and vegetable oils along with the relative non-biodegradable mineral oils. Petroleum hydrocarbons is the measure of only the mineral oils. Maximum information may be obtained using both methods to measure and characterize oil and grease of all sources.
4. Sampling and Storage
  - 4.1 A representative sample of 1 liter volume should be collected in a glass bottle. Because losses of grease will occur on sampling equipment, the collection of a composite sample is impractical. The entire sample is consumed by this test; no other analyses may be performed using aliquots of the sample.
  - 4.2 A delay between sampling and analysis of greater than 4 hours requires sample preservation by the addition of 5 ml HCl (6.1). A delay of greater than 48 hours also requires refrigeration for sample preservation.
5. Apparatus
  - 5.1 Separatory funnel, 2000 ml, with Teflon stopcock.
  - 5.2 Filter paper, Whatman No. 40, 11 cm.
  - 5.3 Infrared spectrophotometer, scanning or fixed wavelength, for measurement around  $2950\text{ cm}^{-1}$ .
  - 5.4 Cells, 10 mm, 50 mm, and 100 mm pathlength, sodium chloride or infrared grade glass.
  - 5.5 Magnetic stirrer, with Teflon coated stirring bars.
6. Reagents
  - 6.1 Hydrochloric acid, 1:1. Mix equal volumes of conc HCl and distilled water.

Issued 1978

- 6.2 Fluorocarbon-113, (1,1,2-trichloro-1,2,2-trifluoroethane), b.p. 48°C.
- 6.3 Sodium sulfate, anhydrous crystal.
- 6.4 Silica gel, 60-200 mesh, Davidson Grade 950 or equivalent. Should contain 1-2% water as defined by residue test at 130°C. Adjust by overnight equilibration if needed.
- 6.5 Calibration mixtures:
  - 6.5.1 Reference oil: Pipet 15.0 ml n-hexadecane, 15.0 ml isooctane, and 10.0 ml chlorobenzene into a 50 ml glass stoppered bottle. Maintain the integrity of the mixture by keeping stoppered except when withdrawing aliquots.
  - 6.5.2 Stock standard: Pipet 1.0 ml reference oil (6.5.1) into a tared 200 ml volumetric flask and immediately stopper. Weigh and dilute to volume with fluorocarbon-113.
  - 6.5.3 Working standards: Pipet appropriate volumes of stock standard (6.5.2) into 100 ml volumetric flasks according to the cell pathlength to be used. Dilute to volume with fluorocarbon-113. Calculate concentration of standards from the stock standard.

7. Procedure

- 7.1 Mark the sample bottle at the water meniscus for later determination of sample volume. If the sample was not acidified at time of collection, add 5 ml hydrochloric acid (6.1) to the sample bottle. After mixing the sample, check the pH by touching pH-sensitive paper to the cap to insure that the pH is 2 or lower. Add more acid if necessary.
- 7.2 Pour the sample into a separatory funnel.
- 7.3 Add 30 ml fluorocarbon-113 (6.2) to the sample bottle and rotate the bottle to rinse the sides. Transfer the solvent into the separatory funnel. Extract by shaking vigorously for 2 minutes. Allow the layers to separate.
- 7.4 Filter the solvent layer through a funnel containing solvent-moistened filter paper into a 100 ml volumetric flask.  
 NOTE 1: An emulsion that fails to dissipate can be broken by pouring about 1 g sodium sulfate (6.3) into the filter paper cone and slowly draining the emulsion through the salt. Additional 1 g portions can be added to the cone as required.
- 7.5 Repeat (7.3 and 7.4) twice more with 30 ml portions of fresh solvent, combining all solvent into the volumetric flask.
- 7.6 Rinse the tip of the separatory funnel, filter paper, and the funnel with a total of 5-10 ml solvent and collect the rinsings in the flask. Dilute the extract to 100 ml. If the extract is known to contain greater than 100 mg of non-hydrocarbon organic material, pipet an appropriate portion of the sample to a 100 ml volumetric and dilute to volume.
- 7.7 Discard about 5-10 ml solution from the volumetric flask. Add 3 g silica gel (6.4) and a stirring bar; stopper the volumetric flask, and stir the solution for a minimum of 5 min on a magnetic stirrer.

- 7.8 Select appropriate working standards and cell pathlength according to the following table of approximate working ranges:

<u>Pathlength</u>	<u>Range</u>
10 mm	2-40 mg
50 mm	0.5-8 mg
100 mm	0.1-4 mg

Calibrate the instrument for the appropriate cells using a series of working standards (6.5.3). It is not necessary to add silica gel to the standards. Determine absorbance directly for each solution at the absorbance maximum at about 2930  $\text{cm}^{-1}$ . Prepare a calibration plot of absorbance vs. mg petroleum hydrocarbons per 100 ml solution.

- 7.9 After the silica gel has settled in the sample extract, fill a clean cell with solution and determine the absorbance of the extract. If the absorbance exceeds 0.8 prepare an appropriate dilution.

NOTE 2: The possibility that the absorptive capacity of the silica gel has been exceeded can be tested at this point by adding another 3.0 g silica gel to the extract and repeating the treatment and determination.

- 7.10 Determine the concentration of petroleum hydrocarbons in the extract by comparing the response against the calibration plot.

8. Calculations

- 8.1 Calculate the petroleum hydrocarbons in the sample using the formula:

$$\text{mg/l Petroleum Hydrocarbons} = \frac{R \times D}{V}$$

where:

R = mg of Petroleum Hydrocarbons as determined from the calibration plot (7.10).

D = extract dilution factor, if used.

V = volume of sample, in liters.

9. Precision and Accuracy

- 9.1 Precision and accuracy data are not available at this time.

FROM "THE MANUAL OF METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES",  
ENVIRONMENTAL MONITORING AND SUPPORT LAB, ENVIRONMENTAL RESEARCH CENTER,  
CINCINNATI, OHIO 45268.

# APPENDIX C

## Mega-TPH CALIBRATION STANDARDS

The Mega-TPH Analyzer is calibrated with EPA Method 418.1 Reference Oil for Total Petroleum Hydrocarbons. The standards used during factory calibration are made as follows:

- I. **Prepare the Reference Oil Mixture**  
Pipet 15.0 ml (i.e., 37.5% by weight) n-hexadecane, 15.0 ml (i.e., 37.5% by weight) isooctane, and 10.0 ml (i.e., 25.0% by weight) chlorobenzene into a 50 ml glass stoppered bottle. Maintain the integrity of the mixture by keeping stoppered except when withdrawing aliquots.
- II. **Prepare the Stock Solutions**  
Weigh the appropriate milligram quantities of reference oil into a 50 ml volumetric flask and dilute to the mark with 1,1,2-trichlorotrifluoroethane (Freon-113™).
- III. **Prepare the Standard Solutions**  
Pipet 0.1 ml of stock solution into a 10 ml volumetric flask and dilute to the mark with 1,1,2-trichlorotrifluoroethane.

Mega-TPH Standards

Weight of Reference Oil in 50 ml stock solution (mg. Ref. Oil)	Concentrations	
	Oil in 50 ml stock solution (mg/l)	Oil in 10 ml standard solution (mg/l)
50	1000*	100
100	2000	200
125	2500	250
150	3000	300
200	4000	400
250	5000	500
375	7500	750
500	10,000	1,000
1,250	25,000	2,500
2,625	52,500	5,250
3,750	75,000	7,500
5,000	100,000	10,000

\*Example: 50 ml = 0.05 litre. Therefore, there are 50 mg Ref. Oil in 50 ml stock solution, which is a concentration of 1000mg/l Ref. Oil. (50mg/0.05 litre = 1000 mg/l)

Freon-113 is a registered trademark of the E.I. DuPont Co.

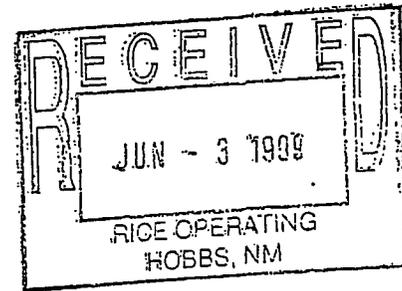


NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

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.

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.

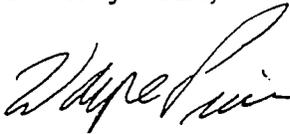
Ms: Haynes  
June 1, 1999  
Page 3

- 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,



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

**COPY**

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 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: 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**

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  $1 \times 10^{-7}$  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.

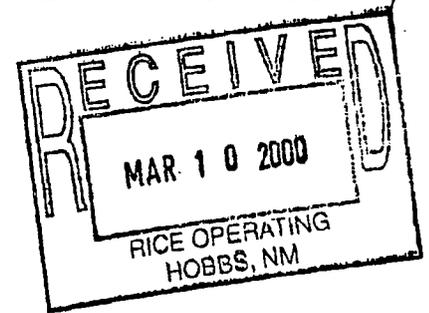
**Closure Plan for Permitted Emergency Pits**

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  $1 \times 10^{-7}$  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.



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

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



ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: SCOTT OR CAROLYN  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (915) 366-0804

Receiving Date: 03/06/00  
Reporting Date: 03/08/00  
Project Owner: BLINEBRY-DRINKARD  
Project Name: SWD SYSTEM #2  
Project Location: EUNICE, NM

Sampling Date: 03/06/00  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C <sub>8</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
------------	-----------	--	--	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	03/07/00	03/07/00	03/06/00	03/06/00	03/06/00	03/06/00
H4694-1	SAMPLE 1	<50	<50	<0.005	<0.005	<0.005
H4694-2	SAMPLE 2	<50	<50	<0.005	<0.005	<0.005
H4694-3	SAMPLE 3	<50	<50	<0.005	<0.005	<0.005
H4694-4	SAMPLE 4	<50	<50	<0.005	<0.005	<0.005
H4694-5	SAMPLE 5	<50	<50	<0.005	<0.005	<0.005
H4694-6	SAMPLE 6	<50	<50	<0.005	<0.005	<0.005
H4694-7	SAMPLE 7	<50	<50	<0.005	<0.005	<0.005
H4694-8	SAMPLE 8	<50	<50	<0.005	<0.005	<0.005
H4694-9	SAMPLE 9	703	<50	<0.005	<0.005	<0.005
H4694-10	SAMPLE 10	150	<50	<0.005	<0.005	<0.005
H4694-11	SAMPLE 11	<50	<50	<0.005	<0.005	<0.005
H4694-12	SAMPLE 12	<50	<50	<0.005	<0.005	<0.005
Quality Control		1185	1153	0.094	0.101	0.103
True Value QC		1200	1200	0.100	0.100	0.300
% Recovery		98.7	96.0	93.6	101	103
Relative Percent Difference		0.5	6.2	6.9	3.6	4.5

METHODS: TPH(GRO & DRO) - EPA SW-846 8015 M; BTEX/MTBE-EPA SW-846 8260

  
Burgess J.A. Cooke, Ph.D.

3/8/00  
Date

H4694.XLS

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



# CARDINAL LABORATORIES, INC.

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page \_\_\_ of \_\_\_

### ANALYSIS REQUEST

Company Name: R.E. Envy  
Project Manager: Jerry Eagle

Address: PO Box 13418  
City: Denver State: TX Zip: 79768

Phone #: \_\_\_\_\_  
Fax #: 915-366-0804

Company: Pice Chemicals  
Attn: Scott Potts  
Address: 120 W Taylor  
City: Hobbs

Project #: \_\_\_\_\_  
Project Name: Blaney-Pike

State: NM Zip: 88240  
Phone #: \_\_\_\_\_

Project Location: Envy

Fax #: \_\_\_\_\_

FOR USE ONLY

LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRES.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H4694-1	Sample 1		1			<input checked="" type="checkbox"/>							BTEX	
-2	2		1			<input checked="" type="checkbox"/>							805M	
-3	3		1			<input checked="" type="checkbox"/>								
-4	4		1			<input checked="" type="checkbox"/>								
-5	5		1			<input checked="" type="checkbox"/>								
-6	6		1			<input checked="" type="checkbox"/>								
-7	7		1			<input checked="" type="checkbox"/>								
-8	8		1			<input checked="" type="checkbox"/>								
-9	9		1			<input checked="" type="checkbox"/>								
-10	10		1			<input checked="" type="checkbox"/>								

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

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

Sampler Relinquished: Jerry Eagle  
Date: 3-6-00  
Time: 3:00

Received By: (Lab Staff) SMY  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received By: (Lab Staff) SMY  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Delivered By: (Circle One)  
Sample - UPS - Bus - Other: \_\_\_\_\_

Sample Condition:  Intact  
 Cool  Yes  No  
Checked By: (Initials) \_\_\_\_\_

REMARKS: MAKE REPORT TO RICE - BUT FAX A COPY TO JERRY EAGLE.

\* Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



# ARDINAL LABORATORIES, INC.

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page      of     

Company Name: KE ENVIRONMENTAL P.O. #: BILL TO ANALYSIS REQUEST

Project Manager:     

Address:      City:      State:      Zip:      Company: Rice Operating

City:      State:      Zip:      Address:     

Phone #:      Fax #:      Project Owner:      City:      State:      Zip:     

Project #:      Project Name:      Phone #:      Fax #:     

Project Location:      Sampler Name:     

PLEASE NOTE: Lab ID. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :			
<u>H4094-11</u>	<u>SAMPLE 11</u>	<u>    </u>	<u>1</u>	<u>    </u>	<u>3/16/00</u>	<u>    </u>	<u>BTEX</u>					
<u>-12</u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>9015m.</u>

PRELIMINARY USE ONLY

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

Delivered By: (Circle One)      Sample Condition Cool Intact  Yes  No

Sampler Relinquished:      Date:      Received By:      Date:     

Phone Result:  Yes  No Add'l Phone #:     

Fax Result:  Yes  No Add'l Fax #:     

REMARKS:     

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

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

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



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

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

ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: SCOTT OR CAROLYN  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (815) 366-0804

Receiving Date: 03/06/00  
Reporting Date: 03/08/00  
Project Owner: BLINEBRY-DRINKARD  
Project Name: SWD SYSTEM #2  
Project Location: EUNICE, NM

Sampling Date: 03/06/00  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C <sub>8</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
------------	-----------	--	--	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	03/07/00	03/07/00	03/06/00	03/06/00	03/06/00	03/06/00
H4694-1	SAMPLE 1	<50	<50	<0.005	<0.005	<0.015
H4694-2	SAMPLE 2	<50	<50	<0.005	<0.005	<0.015
H4694-3	SAMPLE 3	<50	<50	<0.005	<0.005	<0.015
H4694-4	SAMPLE 4	<50	<50	<0.005	<0.005	<0.015
H4694-5	SAMPLE 5	<50	<50	<0.005	<0.005	<0.015
H4694-6	SAMPLE 6	<50	<50	<0.005	<0.005	<0.015
H4694-7	SAMPLE 7	<50	<50	<0.005	<0.005	<0.015
H4694-8	SAMPLE 8	<50	<50	<0.005	<0.005	<0.015
H4694-9	SAMPLE 9	703	<50	<0.005	<0.005	<0.015
H4694-10	SAMPLE 10	150	<50	<0.005	<0.005	<0.015
H4694-11	SAMPLE 11	<50	<50	<0.005	<0.005	<0.015
H4694-12	SAMPLE 12	<50	<50	<0.005	<0.005	<0.015
Quality Control		1185	1153	0.094	0.101	0.313
True Value QC		1200	1200	0.100	0.100	0.300
% Recovery		98.7	96.0	93.8	101	104
Relative Percent Difference		0.5	6.2	6.9	3.8	4.5

METHODS: TPH(GRO & DRO) - EPA SW-846 8016 M; BTEX/MTBE-EPA SW-846 8260

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

*3/8/00*  
Date

H4694.XLS

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



# CARDINAL LABORATORIES, INC.

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>RC Enviro</u>		Address: <u>PO Box 13418</u>		City: <u>Delaware</u>		State: <u>TX</u>		Zip: <u>79768</u>																																																																																																																																																																												
Project Manager: <u>Jerry Eagle</u>		Company: <u>Pie's Candy</u>		Attn: <u>Scott Pugh</u>		Address: <u>221W Taylor</u>		City: <u>HOBBS</u>																																																																																																																																																																												
Phone #: _____		Fax #: <u>915-366-1284</u>		Project #: <u>Blaney-Linker SWD 2</u>		Project Owner: _____		State: <u>NM</u>																																																																																																																																																																												
Project Name: _____		Project Location: <u>Erville</u>		Phone #: _____		Fax #: <u>397-1471</u>		Zip: <u>88240</u>																																																																																																																																																																												
<table border="1"> <thead> <tr> <th rowspan="2">LAB I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="6">MATRIX</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> <th rowspan="2">ANALYSIS REQUEST</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>SLUDGE</th> <th>OTHER :</th> <th>ACID:</th> <th>ICE / COOL</th> <th>OTHER :</th> </tr> </thead> <tbody> <tr> <td>H4694-1</td> <td>Sample 1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3/6/00</td> <td></td> <td>BTEX</td> <td>815M</td> </tr> <tr> <td>-2</td> <td>2</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>-3</td> <td>3</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>-4</td> <td>4</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>-5</td> <td>5</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>-6</td> <td>6</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>-7</td> <td>7</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>-8</td> <td>8</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>-9</td> <td>9</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>-10</td> <td>10</td> <td></td> <td>1</td> <td></td> </tr> </tbody> </table>										LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :	H4694-1	Sample 1		1								3/6/00		BTEX	815M	-2	2		1												-3	3		1												-4	4		1												-5	5		1												-6	6		1												-7	7		1												-8	8		1												-9	9		1												-10	10		1											
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX										DATE	TIME	ANALYSIS REQUEST																																																																																																																																																																				
				GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :																																																																																																																																																																									
H4694-1	Sample 1		1								3/6/00		BTEX	815M																																																																																																																																																																						
-2	2		1																																																																																																																																																																																	
-3	3		1																																																																																																																																																																																	
-4	4		1																																																																																																																																																																																	
-5	5		1																																																																																																																																																																																	
-6	6		1																																																																																																																																																																																	
-7	7		1																																																																																																																																																																																	
-8	8		1																																																																																																																																																																																	
-9	9		1																																																																																																																																																																																	
-10	10		1																																																																																																																																																																																	
<p>PLAQUE NOTE: Lab and Diagnostic Containers facility and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause which occur or arise shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analytical services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p> <p>Terms and Conditions: If work will be changed on all records more than 30 days past date of issue of 24% per annum from the original date of invoice. and all costs of collection, including attorney's fees.</p>																																																																																																																																																																																				
Sample Relinquished By: <u>Jerry Eagle</u>		Date: <u>3-6-00</u>		Time: <u>3:00</u>		Received By: <u>AMK</u>		Date: <u>3-6-00</u>		Time: <u>3:00</u>																																																																																																																																																																										
Relinquished By: _____		Date: _____		Time: _____		Received By: <u>AMK</u>		Date: _____		Time: _____																																																																																																																																																																										
Delivered By: (Circle One) <input checked="" type="checkbox"/> Sample - UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other		Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: _____		REMARKS: <u>MAKE REPORT TO RIA - BUT FAX A COPY TO JERRY EAGLE.</u>																																																																																																																																																																														

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





To: Carolyn Haynes / Rice Operating

From: Mike Griffin / Whole Earth Environmental

Date: May 15, 2000

Subject: Lab Results, C-2 Coring Project

Attached, please find the original chain of custody and laboratory results from the C-2 coring project.

Thank you again for the work.

Mike

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

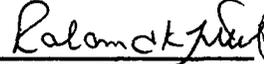
WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 1-281-646-8996

Sample Type: Soil  
Sample Condition: Intact/50 deg. F  
Project #: C-2  
Project Name: None Given  
Project Location: Eunice, N.M.

Sampling Date: 05/04/00  
Receiving Date: 05/06/00  
Analysis Date: 05/09/00

ELT#	FIELD CODE	Chloride mg/kg
25588	80-85	<10
25589	X-50	585
25590	X-80	<100
25591	Z-35	6736
25592	Z-40	2482
25593	Z-45	2393
25594	Z-80	<100
	QUALITY CONTROL	5140
	TRUE VALUE	5000
	% PRECISION	103
	BLANK	<10

Methods: EPA SW 846-9052

  
Raland K Tuttle

5-9-00  
Date

**Environmental Lab of Texas, Inc.** 12600 West I-20 East Odessa, Texas 79763  
 (915) 563-1800 FAX (915) 563-1713

**CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST**

Project Manager: **M. Griffin**  
 Phone #: (800) 854-4358  
 FAX #: (281) 646-8996

Company Name & Address:  
**Whole Earth Environmental**  
 Project #: **C-2**  
 Project Name: **Envice, NM**

Sampler Signature: *M. Griffin*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE
25588	80-85	1		✓							✓		5-4	N/A
25589	X-50													
25590	X-80													
25591	Z-35													
25592	Z-40													
25593	Z-45													
25594	Z-90													

Relinquished by:	Date:	Times:	Received by:	REMARKS:
<i>M. Griffin</i>	5-6-00	11:00	<i>R. Griffin</i>	570P
Relinquished by:	Date:	Times:	Received by:	
Relinquished by:	Date:	Times:	Received by Laboratory:	

ANALYSIS REQUEST
BTEX 8020/5030
TPH 418.1
TCLP Metals Ag As Ba Cd Cr Pb Hg Se
Total Metals Ag As Ba Cd Cr Pb Hg Se
TCLP Volatiles
TCLP Semi Volatiles
TDS
RCI
Chlorides

Sundance Services, Inc.

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

NO 25338

LEASE OPERATOR/SHIPPER/COMPANY: King

LEASE NAME: BLD 2000 ~~1111~~ C-2

TRANSPORTER COMPANY: McConkey

TIME:

AM/PM

DATE: 1/14/00

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: 4000

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: 011407

VOLUME OF MATERIAL  BBLs :  YARD 13 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

Sundance Services, Inc.

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

NO 25335

LEASE OPERATOR/SHIPPER/COMPANY: King

LEASE NAME: BLD 2000 ~~1111~~ C-2

TRANSPORTER COMPANY: McConkey

TIME:

AM/PM

DATE: 1-18-00

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: 4000

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: 011407

VOLUME OF MATERIAL  BBLs :  YARD 13 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 N2 25332

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: RD 500

TRANSPORTER COMPANY: McAuliffe TIME: \_\_\_\_\_ AM/PM

DATE: 1/18/00 VEHICLE NO.: N 82 DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: oil

VOLUME OF MATERIAL  BBLs : 1 YARD 5 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature] (SIGNATURE)

FACILITY REPRESENTATIVE: [Signature] (SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
 Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 N2 25334

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: RD 500

TRANSPORTER COMPANY: McAuliffe TIME: \_\_\_\_\_ AM/PM

DATE: 1/18/00 VEHICLE NO.: # MS2 DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: cuttings

VOLUME OF MATERIAL  BBLs : 1 YARD 5 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature] (SIGNATURE)

FACILITY REPRESENTATIVE: [Signature] (SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
 Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 N2 25331

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *17005000*

TRANSPORTER COMPANY: *111 11111*

DATE: *1/18/00* VEHICLE NO.: *M-62* DRIVER NO.:

CHARGE TO: *157000*

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *oil*

VOLUME OF MATERIAL  BLS. :  YARD *15* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]*  
 (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
 (SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 N2 25328

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *BD SWP*

TRANSPORTER COMPANY: *1111111*

DATE: *1-18-00* VEHICLE NO.: *M-62* DRIVER NO.:

CHARGE TO: *Rice*

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *oil*

VOLUME OF MATERIAL  BLS. :  YARD *15* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]*  
 (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
 (SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 137 \* Eunice, NM 88231  
(505) 394-2511

**N# 25324**

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: BOSUP

TRANSPORTER COMPANY: McNabb

TIME: \_\_\_\_\_ AM/PM

DATE: 1-18-00 VEHICLE NO.: M-82 DRIVER NO.:

CHARGE TO: Rice

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: old dirt

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 5 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_  
(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_  
(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 137 \* Eunice, NM 88231  
(505) 394-2511

**N# 25320**

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: BOSUP

TRANSPORTER COMPANY: McNabb

TIME: \_\_\_\_\_ AM/PM

DATE: 1/19/00 VEHICLE NO.: M-82 DRIVER NO.:

CHARGE TO: Rice

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: old dirt

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 15 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_  
(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_  
(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 N2 25317

LEASE OPERATOR/SHIPPER/COMPANY: Rice  
 LEASE NAME: B.O. SWP  
 TRANSPORTER COMPANY: McNabb TIME: \_\_\_\_\_ AM/PM  
 DATE: 1-18-00 VEHICLE NO.: M-82 DRIVER NO.:

CHARGE TO: Rice  
 TYPE OF MATERIAL  
 Production Water  
 Tank Bottoms  
 Other Material: \_\_\_\_\_  
 Drilling Fluids  
 Contaminated soil  
 BSAW Content: \_\_\_\_\_  
 Completion Fluids  
 C-117 No.: \_\_\_\_\_  
 Description: oil/water

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 15 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature] (SIGNATURE)  
 FACILITY REPRESENTATIVE: [Signature] (SIGNATURE)

White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
 Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 N2 25312

LEASE OPERATOR/SHIPPER/COMPANY: Rice  
 LEASE NAME: B.O. SWP  
 TRANSPORTER COMPANY: McNabb TIME: \_\_\_\_\_ AM/PM  
 DATE: 1/18/00 VEHICLE NO.: M-82 DRIVER NO.:

CHARGE TO: Rice  
 TYPE OF MATERIAL  
 Production Water  
 Tank Bottoms  
 Other Material: \_\_\_\_\_  
 Drilling Fluids  
 Contaminated soil  
 BSAW Content: \_\_\_\_\_  
 Completion Fluids  
 C-117 No.: \_\_\_\_\_  
 Description: oil/water

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 15 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature] (SIGNATURE)  
 FACILITY REPRESENTATIVE: [Signature] (SIGNATURE)

White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**N2 25148**

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *B.V. SLD*

TRANSPORTER COMPANY:

TIME:

AM/PM

DATE: *1-11-00* VEHICLE NO.: *9-82* DRIVER NO.:

DRIVER NO.:

CHARGE TO: *Rice*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Water by DIT*

VOLUME OF MATERIAL  BBLs. :  YARD *15* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: *[Signature]*  
 (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
 (SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**N2 25144**

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *B.D. SLD*

TRANSPORTER COMPANY: *McNAB*

TIME:

AM/PM

DATE: *1-11-00* VEHICLE NO.: *9-82* DRIVER NO.:

DRIVER NO.:

CHARGE TO: *Rice*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Water by DIT*

VOLUME OF MATERIAL  BBLs. :  YARD *15* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: *[Signature]*  
 (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
 (SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 NE 25141

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: BD 5005

TRANSPORTER COMPANY: McNABO TIME: \_\_\_\_\_ AM/PM

DATE: 1/10/00 VEHICLE NO.: 44112 DRIVER NO.:

CHARGE TO: Price

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: Chipped

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 5 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: [Signature]  
 (SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
 (SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 NE 25137

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: BD 5005

TRANSPORTER COMPANY: McNABO TIME: \_\_\_\_\_ AM/PM

DATE: 1/10/00 VEHICLE NO.: 44118 DRIVER NO.:

CHARGE TO: Price

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: Chipped

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 20 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: [Signature]  
 (SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
 (SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
 Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 No 25136

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: B.D. SWD

TRANSPORTER COMPANY: McNeill

DATE: 1-10-00

VEHICLE NO.: M-82

DRIVER NO.:

TIME:

AM/PM

CHARGE TO: Rice

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: oil

VOLUME OF MATERIAL  BBLs :  YARD 15 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 No 25135

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: B.D. SWD

TRANSPORTER COMPANY: Rice

DATE: 1/10/00

VEHICLE NO.: # M52

DRIVER NO.:

TIME:

AM/PM

CHARGE TO: Rice

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: oil

VOLUME OF MATERIAL  BBLs :  YARD 15 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**NO 25132**

LEASE OPERATOR/SHIPPER/COMPANY: *6/1/92*

LEASE NAME: *11/11/91*

TRANSPORTER COMPANY: *412 10044* TIME: \_\_\_\_\_ AM/PM

DATE: *11/18/92* VEHICLE NO.: *412 02* DRIVER NO.:

CHARGE TO: *11/18/92*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: *oil*

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD *15* :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]* (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]* (SIGNATURE)

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**NO 25127**

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *SD 5000*

TRANSPORTER COMPANY: *412 10044* TIME: \_\_\_\_\_ AM/PM

DATE: *1-10-00* VEHICLE NO.: *412 02* DRIVER NO.:

CHARGE TO: *Rice*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: *old dirt*

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD *15* :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]* (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]* (SIGNATURE)

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**N2 25124**

LEASE OPERATOR/SHIPPER/COMPANY: *14100*

LEASE NAME: *BDSWB*

TRANSPORTER COMPANY: *M. W. A. B. B.*

DATE: *1-11-00* VEHICLE NO.: *W 200* DRIVER NO.:

CHARGE TO: *14100*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: *Water*

VOLUME OF MATERIAL  BBL.S. \_\_\_\_\_ :  YARD *15* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: *[Signature]*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**N2 25121**

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *B.D. SWD*

TRANSPORTER COMPANY: *M. W. A. B. B.*

DATE: *1-11-00* VEHICLE NO.: *SW* DRIVER NO.:

CHARGE TO: *Rice*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: *Sludges*

VOLUME OF MATERIAL  BBL.S. \_\_\_\_\_ :  YARD *15* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: *[Signature]*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

NZ 25195

LEASE OPERATOR/SHIPPER/COMPANY: *[Redacted]*

LEASE NAME: *[Redacted]*

TRANSPORTER COMPANY: *[Redacted]*

TIME: *[Redacted]*

AM/PM

DATE: *[Redacted]*

VEHICLE NO.:

DRIVER NO.:

CHARGE TO:

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BS&W Content:
- Completion Fluids
- C-117 No.:

Description:

VOLUME OF MATERIAL  BBLs :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361,001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: *[Signature]*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

NZ 25195

LEASE OPERATOR/SHIPPER/COMPANY: *[Redacted]*

LEASE NAME: *[Redacted]*

TRANSPORTER COMPANY: *[Redacted]*

TIME: *[Redacted]*

AM/PM

DATE: *[Redacted]*

VEHICLE NO.:

DRIVER NO.:

CHARGE TO:

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BS&W Content:
- Completion Fluids
- C-117 No.:

Description:

VOLUME OF MATERIAL  BBLs :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361,001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: *[Signature]*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**NO 25193**

LEASE OPERATOR/SHIPPER/COMPANY: 1000

LEASE NAME: 1000

TRANSPORTER COMPANY: 1000

TIME:

AM/PM

DATE: 11/20/00 VEHICLE NO.: 1000 DRIVER NO.:

CHARGE TO:

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BS&W Content:
- Completion Fluids
- C-117 No.:

Description: 1000

VOLUME OF MATERIAL  BLS. :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**NO 25188**

LEASE OPERATOR/SHIPPER/COMPANY: 1000

LEASE NAME: 1000

TRANSPORTER COMPANY: 1000

TIME:

AM/PM

DATE: 11/20/00 VEHICLE NO.: 1000 DRIVER NO.:

CHARGE TO:

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BS&W Content:
- Completion Fluids
- C-117 No.:

Description: 1000

VOLUME OF MATERIAL  BLS. :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

IN 25186

LEASE OPERATOR/SHIPPER/COMPANY: *1737*

LEASE NAME: *1737*

TRANSPORTER COMPANY: *1737* TIME: AM/PM

DATE: *11/10* VEHICLE NO.: *1737* DRIVER NO.:

CHARGE TO: *1737*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *1737*

VOLUME OF MATERIAL  BBLs :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: *[Signature]*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

IN 25183

LEASE OPERATOR/SHIPPER/COMPANY: *1737*

LEASE NAME: *1737*

TRANSPORTER COMPANY: *1737* TIME: AM/PM

DATE: *11/10* VEHICLE NO.: *1737* DRIVER NO.:

CHARGE TO: *1737*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *1737*

VOLUME OF MATERIAL  BBLs :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: *[Signature]*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**M2 25180**

LEASE OPERATOR/SHIPPER/COMPANY:       

LEASE NAME:       

TRANSPORTER COMPANY: Manabb TIME:        AM/PM

DATE: 11/15/05 VEHICLE NO.: N-82 DRIVER NO.:       

CHARGE TO:       

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description:       

VOLUME OF MATERIAL  BBLs :        :  YARD 15 :        

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:        (SIGNATURE)

FACILITY REPRESENTATIVE:        (SIGNATURE)

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**M2 25175**

LEASE OPERATOR/SHIPPER/COMPANY:       

LEASE NAME:       

TRANSPORTER COMPANY: Manabb TIME:        AM/PM

DATE: 10/10/05 VEHICLE NO.: N-82 DRIVER NO.:       

CHARGE TO:       

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description:       

VOLUME OF MATERIAL  BBLs :        :  YARD 15 :        

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:        (SIGNATURE)

FACILITY REPRESENTATIVE:        (SIGNATURE)

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**N2 25169**

LEASE OPERATOR/SHIPPER/COMPANY: *Nice*

LEASE NAME: *90-066*

TRANSPORTER COMPANY: *McWILL* TIME: \_\_\_\_\_ AM/PM

DATE: *1/1/92* VEHICLE NO.: *90-066* DRIVER NO.: \_\_\_\_\_

CHARGE TO: *Nice*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Water*

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD *15* :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**N2 25164**

LEASE OPERATOR/SHIPPER/COMPANY: *Nice*

LEASE NAME: *90-066*

TRANSPORTER COMPANY: *McWILL* TIME: \_\_\_\_\_ AM/PM

DATE: *1/1/92* VEHICLE NO.: *90-066* DRIVER NO.: \_\_\_\_\_

CHARGE TO: *Nice*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Water*

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD *15* :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)



**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511

**NO 25196**

LEASE OPERATOR/SHIPPER/COMPANY: *Price*

LEASE NAME: *P.D. Swain*

TRANSPORTER COMPANY: *McMullen* TIME: \_\_\_\_\_ AM/PM

DATE: *1-11-90* VEHICLE NO.: *M-12* DRIVER NO.:

CHARGE TO: *Price*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Drilling*

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD *25* :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

White-Sundance Quarry-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511

**NO 25194**

LEASE OPERATOR/SHIPPER/COMPANY: *Price*

LEASE NAME: *P.D. Swain*

TRANSPORTER COMPANY: *McMullen* TIME: \_\_\_\_\_ AM/PM

DATE: *1-11-90* VEHICLE NO.: *M-12* DRIVER NO.:

CHARGE TO: *Price*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Drilling*

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD *25* :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

White-Sundance Quarry-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**NE 25190**

LEASE OPERATOR/SHIPPER/COMPANY: \_\_\_\_\_

LEASE NAME: \_\_\_\_\_

TRANSPORTER COMPANY: \_\_\_\_\_

DATE: \_\_\_\_\_ VEHICLE NO.: \_\_\_\_\_ DRIVER NO.: \_\_\_\_\_

CHARGE TO: \_\_\_\_\_

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: \_\_\_\_\_

VOLUME OF MATERIAL  BBLs :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
**NE 25187**

LEASE OPERATOR/SHIPPER/COMPANY: \_\_\_\_\_

LEASE NAME: \_\_\_\_\_

TRANSPORTER COMPANY: \_\_\_\_\_

DATE: \_\_\_\_\_ VEHICLE NO.: \_\_\_\_\_ DRIVER NO.: \_\_\_\_\_

CHARGE TO: \_\_\_\_\_

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: \_\_\_\_\_

VOLUME OF MATERIAL  BBLs :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

N2 25184

LEASE OPERATOR/SHIPPER/COMPANY: *White Sundance*

LEASE NAME: *White Sundance*

TRANSPORTER COMPANY: *White Sundance*

DATE: *1/1/95*

CHARGE TO: *1/1/95*

TIME:

AM/PM

DRIVER NO.:

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:

Description: *sludged*

- Drilling Fluids
- Contaminated soil
- BSAW Content:

- Completion Fluids
- C-117 No.:

VOLUME OF MATERIAL  BBLs :  YARD *15* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

N2 25182

LEASE OPERATOR/SHIPPER/COMPANY: *White Sundance*

LEASE NAME: *White Sundance*

TRANSPORTER COMPANY: *White Sundance*

DATE: *1/1/95*

CHARGE TO: *1/1/95*

TIME:

AM/PM

DRIVER NO.:

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:

Description: *sludged*

- Drilling Fluids
- Contaminated soil
- BSAW Content:

- Completion Fluids
- C-117 No.:

VOLUME OF MATERIAL  BBLs :  YARD *15* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 NE 25179

LEASE OPERATOR/SHIPPER/COMPANY: *Sundance Services, Inc.*

LEASE NAME: *Sundance Services, Inc.*

TRANSPORTER COMPANY: *Sundance Services, Inc.* TIME: *11:00* AM/PM

DATE: *11/17/95* VEHICLE NO.: *110* DRIVER NO.:

CHARGE TO: *110*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Drilling Fluids*

VOLUME OF MATERIAL  BLS. : *25* :  YARD : *25* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]* (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]* (SIGNATURE)

White Sundance Quarry-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 NE 25176

LEASE OPERATOR/SHIPPER/COMPANY: *Sundance Services, Inc.*

LEASE NAME: *Sundance Services, Inc.*

TRANSPORTER COMPANY: *Sundance Services, Inc.* TIME: *11:00* AM/PM

DATE: *11/17/95* VEHICLE NO.: *110* DRIVER NO.:

CHARGE TO: *110*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Drilling Fluids*

VOLUME OF MATERIAL  BLS. : *25* :  YARD : *25* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]* (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]* (SIGNATURE)

White Sundance Quarry-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511

M2 25170

LEASE OPERATOR/SHIPPER/COMPANY: \_\_\_\_\_

LEASE NAME: \_\_\_\_\_

TRANSPORTER COMPANY: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

DATE: \_\_\_\_\_ VEHICLE NO.: \_\_\_\_\_ DRIVER NO.:

CHARGE TO: \_\_\_\_\_

**TYPE OF MATERIAL**

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids   | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms     | <input type="checkbox"/> Contaminated soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Material:  | <input type="checkbox"/> BSAW Content:     |  |

Description: \_\_\_\_\_

VOLUME OF MATERIAL  BLS. \_\_\_\_\_ :  YARD \_\_\_\_\_ :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511

M2 25166

LEASE OPERATOR/SHIPPER/COMPANY: \_\_\_\_\_

LEASE NAME: \_\_\_\_\_

TRANSPORTER COMPANY: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

DATE: \_\_\_\_\_ VEHICLE NO.: \_\_\_\_\_ DRIVER NO.:

CHARGE TO: \_\_\_\_\_

**TYPE OF MATERIAL**

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids   | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms     | <input type="checkbox"/> Contaminated soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Material:  | <input type="checkbox"/> BSAW Content:     |  |

Description: \_\_\_\_\_

VOLUME OF MATERIAL  BLS. \_\_\_\_\_ :  YARD \_\_\_\_\_ :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
 Revised 12/27/95

# Sundance Services, Inc.

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

NO 25161

LEASE OPERATOR/SHIPPER/COMPANY: \_\_\_\_\_

LEASE NAME: \_\_\_\_\_

TRANSPORTER COMPANY: \_\_\_\_\_

TIME: \_\_\_\_\_ AM/PM

DATE: \_\_\_\_\_

VEHICLE NO.: \_\_\_\_\_

DRIVER NO.: \_\_\_\_\_

CHARGE TO: \_\_\_\_\_

## TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- Completion Fluids
- BSAW Content: \_\_\_\_\_
- C-117 No.: \_\_\_\_\_

Description: \_\_\_\_\_

VOLUME OF MATERIAL  BBLs \_\_\_\_\_ :  YARD \_\_\_\_\_ :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: \_\_\_\_\_  
(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_  
(SIGNATURE)

Sundance Services, Inc.

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

N2 24670

LEASE OPERATOR/SHIPPER/COMPANY: *ACE*

LEASE NAME: *R05100 C-117-2*

TRANSPORTER COMPANY: *McDermott* TIME: AM/PM

DATE: *12-17-90* VEHICLE NO.: *10* DRIVER NO.:

CHARGE TO: *ACE*

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BS&W Content:
- Completion Fluids
- C-117 No.:

Description: *sludge*

VOLUME OF MATERIAL  BBLs :  YARD *24* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

Sundance Services, Inc.

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

N2 24674

LEASE OPERATOR/SHIPPER/COMPANY: *McDermott*

LEASE NAME: *305100 C-2*

TRANSPORTER COMPANY: *McDermott* TIME: AM/PM

DATE: *12-17-90* VEHICLE NO.: *32* DRIVER NO.:

CHARGE TO: *ACE*

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BS&W Content:
- Completion Fluids
- C-117 No.:

Description: *oil cut*

VOLUME OF MATERIAL  BBLs :  YARD *16* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**N2 24667**

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: Bes wd or

TRANSPORTER COMPANY: Ramirez

TIME: \_\_\_\_\_ AM/PM

DATE: 12-17-99 VEHICLE NO.:

DRIVER NO.:

CHARGE TO: Rice

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.:

Description: oil Dr

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ : WYARD 24 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**N2 24669**

LEASE OPERATOR/SHIPPER/COMPANY: McNabb

LEASE NAME: RD 5000

TRANSPORTER COMPANY: McNabb

TIME: \_\_\_\_\_ AM/PM

DATE: 12-17-99 VEHICLE NO.:

DRIVER NO.:

CHARGE TO: Rice

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.:

Description: oil Dr

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ : WYARD 16 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: \_\_\_\_\_ (SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_ (SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

Sundance Services, Inc.

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

NZ 24662

LEASE OPERATOR/SHIPPER/COMPANY: Hice

LEASE NAME: BBSWA-CC

TRANSPORTER COMPANY: McMahan

TIME: \_\_\_\_\_ AM/PM

DATE: 2-17-99 VEHICLE NO.: 38

DRIVER NO.: \_\_\_\_\_

CHARGE TO: Hice

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material: \_\_\_\_\_
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: oil dirt

VOLUME OF MATERIAL  BBLs \_\_\_\_\_ :  YARD 16 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFORESAID DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

Sundance Services, Inc.

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

NZ 24666

LEASE OPERATOR/SHIPPER/COMPANY: [Signature]

LEASE NAME: PC SWD Unit CC2

TRANSPORTER COMPANY: Mahan

TIME: \_\_\_\_\_ AM/PM

DATE: 2/17/99 VEHICLE NO.: 82

DRIVER NO.: \_\_\_\_\_

CHARGE TO: Rice

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material: \_\_\_\_\_
- Drilling Fluids
- Contaminated soil
- BSAW Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: oil dirt

VOLUME OF MATERIAL  BBLs \_\_\_\_\_ :  YARD 16 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFORESAID DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**NE 24659**

LEASE OPERATOR/SHIPPER/COMPANY: HTCC

LEASE NAME: WDS W012

TRANSPORTER COMPANY: Hammco 2 TIME: \_\_\_\_\_ AM/PM

DATE: 12-13-99 VEHICLE NO.: 13 DRIVER NO.:

CHARGE TO: HTCC

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BS&W Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: HTCC

VOLUME OF MATERIAL  BBLs \_\_\_\_\_ :  YARD 211 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**NE 24664**

LEASE OPERATOR/SHIPPER/COMPANY: HTCC

LEASE NAME: WDS W012

TRANSPORTER COMPANY: Hammco 2 TIME: \_\_\_\_\_ AM/PM

DATE: 12-13-99 VEHICLE NO.: 13 DRIVER NO.:

CHARGE TO: HTCC

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BS&W Content: \_\_\_\_\_
- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: HTCC

VOLUME OF MATERIAL  BBLs \_\_\_\_\_ :  YARD 211 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 NZ 24658

LEASE OPERATOR/SHIPPER/COMPANY: *None*

LEASE NAME: *B. H. W. P. Co.*

TRANSPORTER COMPANY: *DR. W. H. B. Co.*

DATE: *11-19-92* VEHICLE NO.: *09557* DRIVER NO.:

CHARGE TO: *None*

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *soil*

VOLUME OF MATERIAL  BBLs. :  YARD *2* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *Steve West*  
 (SIGNATURE)

FACILITY REPRESENTATIVE: *John ...*  
 (SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
 Revised 12/27/95

Sundance Services, Inc.  
 P.O. Box 1737 \* Eunice, NM 88231  
 (505) 394-2511  
 NZ 24655

LEASE OPERATOR/SHIPPER/COMPANY: *None*

LEASE NAME: *B. H. W. P. Co.*

TRANSPORTER COMPANY: *L. H. W. P. Co.*

DATE: *11-19-92* VEHICLE NO.: *L.H.W.P. Co.* DRIVER NO.:

CHARGE TO: *None*

TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *soil*

VOLUME OF MATERIAL  BBLs. :  YARD *2* :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *Steve West*  
 (SIGNATURE)

FACILITY REPRESENTATIVE: *John ...*  
 (SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
 Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

N2 24653

LEASE OPERATOR/SHIPPER/COMPANY: *Price*

LEASE NAME: *OSW 1 - 02*

TRANSPORTER COMPANY: *Price*

TIME:

AM/PM

DATE: *12-13-99* VEHICLE NO.: *2M-87*

DRIVER NO.:

CHARGE TO: *Price*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Oil*

VOLUME OF MATERIAL  BBLs. :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *D. Price*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

N2 24650

LEASE OPERATOR/SHIPPER/COMPANY: *Price*

LEASE NAME: *OSW 1 - 02*

TRANSPORTER COMPANY: *Price*

TIME:

AM/PM

DATE: *12-13-99* VEHICLE NO.: *2M-87*

DRIVER NO.:

CHARGE TO: *Price*

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:
- Drilling Fluids
- Contaminated soil
- BSAW Content:
- Completion Fluids
- C-117 No.:

Description: *Oil*

VOLUME OF MATERIAL  BBLs. :  YARD :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *D. Price*  
(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*  
(SIGNATURE)

White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter  
Revised 12/27/95

**Sundance Services, Inc.**

P.O. Box 1737 \* Eunice, NM 88231  
(505) 394-2511

**N2 24649**

LEASE OPERATOR/SHIPPER/COMPANY: King

LEASE NAME: BC SCUD well # C-2

TRANSPORTER COMPANY: Alcubilla

TIME: \_\_\_\_\_ AM/PM

DATE: 2-17-92 VEHICLE NO.: 571

DRIVER NO.:

CHARGE TO: King

**TYPE OF MATERIAL**

- Production Water
- Tank Bottoms
- Other Material:

- Drilling Fluids
- Contaminated soil
- BS&V Content:

- Completion Fluids
- C-117 No.:

Description: Hydril

VOLUME OF MATERIAL  BBLs :  YARD 12 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFORESAID DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S 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. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)



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

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

**TO:** Rice Engineering Corporation  
 Attn: Scott Curtis  
 122 W. Taylor  
 Hobbs, NM 88240

**MATERIAL:** Red Clay

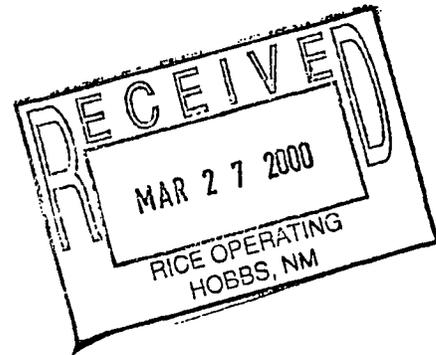
**PROJECT:** Blinebry-Drinkard  
 SWD Well C-2

**TEST METHOD:** ASTM 2922

**DATE OF TEST:** March 20, 2000

**DEPTH:** Finished Subgrade

TEST NO.	LOCATION	DRY DENSITY		DEPTH
		% Maximum	% MOISTURE	
SG-1	Pit - 20' N. and 20' E. of SW Corner of N-S Leg	103.1	14.4	
SG-2	Pit - 80' N. and 25' E. of SW Corner of N-S Leg	103.4	15.4	
SG-3	Pit - 120' N. and 30' E. of SW Corner of N-S Leg	103.9	15.0	
SG-4	Pit - 30' W and 15' N. of SE Corner of E-W Leg	102.7	15.6	



**Moisture Density Information Provided by Others.**

**CONTROL DENSITY:** 98.9  
 ASTM D 698

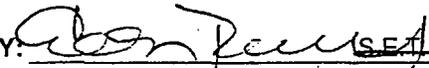
**OPTIMUM MOISTURE:** 24.9%

**REQUIRED COMPACTION:** 95%

**LAB NO.:** 0H 747-750

**PETTIGREW and ASSOCIATES**

**COPIES TO:** Rice

**BY:**  S.E.T.



LABORATORY TEST REPORT  
**PETTIGREW and ASSOCIATES**

1110 N. GRIMES  
HOBBS, NM 88240  
(505) 393-9827

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

**TO:** Rice Engineering Corporation  
Attn: Scott Curtis  
122 W. Taylor  
Hobbs, NM 88240

**MATERIAL:** Red Clay

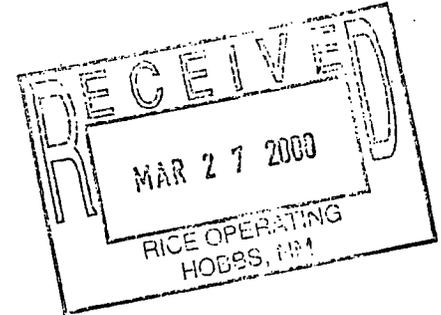
**PROJECT:** Blinebry-Drinkard  
SWD Well C-2

**TEST METHOD:** ASTM 2922

**DATE OF TEST:** March 20, 2000

**DEPTH:** Finished Subgrade

TEST NO.	LOCATION	DRY DENSITY % Maximum	% MOISTURE	DEPTH
SG-5	Pit - 10' E and 30' N of SW Corner of E-W Leg	106.0	13.4	



Moisture Density Information Provided by Others.

**CONTROL DENSITY:** 98.9  
ASTM D 698

**OPTIMUM MOISTURE:** 24.9%

**REQUIRED COMPACTION:** 95%

**LAB NO.:** 0H 751-752

**PETTIGREW and ASSOCIATES**

**COPIES TO:** Rice

BY:



**INVOICE**  
**PETTIGREW and ASSOCIATES**

1110 N. GRIMES  
 HOBBS, NM 88240  
 (505) 393-9827

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

TO: Rice Engineering Corporation  
 Attn: Scott Curtis  
 122 W. Taylor  
 Hobbs, NM 88240

DATE: April 5, 2000

INVOICE #: 20H-128

PROJECT: Blinebry-Drinkard  
 Project #2000.1033

Page 1 of 1



DATE	LAB NO.	DESCRIPTION	QTY	UNIT PRICE	TOTAL CHARGE
------	---------	-------------	-----	------------	--------------

MARCH, 2000

3/20	OH 747-750	Soil Densities SG 1-4	4	\$ 25.00	\$ 100.00
3/20	OH 750A	Lab-tech Trip SG 1-4	1	\$ 52.85	\$ 52.85
3/20	OH 751	Soil Densities SG-5	1	\$ 25.00	\$ 25.00
3/20	OH 752	Lab-tech Trip SG-5	1	\$ 52.85	\$ 52.85

Subtotal \$ 230.70

NMGRT \$ 13.84

**TOTAL AMOUNT DUE \$ 244.54**

501-9031

THANK YOU!

*Scott Curtis*

RECEIVED

FEB 28 2000

Environmental Bureau  
Oil Conservation Division

## 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 Dept.  
Oil Conservation Division, Environmental Bureau  
2040 S. Pacheco  
Santa Fe, NM 87505

Mr. Price:

Rice Operating Company requests closure plan approval for the emergency overflow pit, Pit Permit # H-69 and the below-grade redwood tanks at the Blinebry Drinkard Salt Water Disposal Site SWD Well C-2, located in Unit C, Sec. 2, T22S, R37E, NMPM, Lea County, NM.

The C-2 facility is included in the Rice Operating Company (ROC) generic closure plan for emergency pits and below-grade redwood tanks and is the first facility to apply under the generic plan. This facility has recently experienced an accidental discharge due to a tank collapse and needs immediate attention. Rather than repair the below-grade redwood tank, it is ROC's intention to clean-up this site, close the emergency overflow pit and replace the below-grade redwood tanks with steel or fiberglass tanks set in an engineered secondary containment. ROC expects to simultaneously close the pit and tank areas, but under separate closure plans and reports, pursuant to NMOCD guidelines. The C-103 form addresses this intention.

ROC is the service provider (operator) for this salt water disposal system and has no ownership of any portion of pipeline, well or facility. The Blinebry Drinkard System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. This location requires System Partner AFE approval and advance billing for closure funds. Only after funds are received can closure work begin.

A timely response to this closure plan will be appreciated. Thank you for your consideration.



Carolyn Doran Haynes  
Operations Engineer

Enclosures

Cc: KH, file, Ms. Donna Williams,  
NMOCD, District I Office  
P. O. Box 1980  
Hobbs, NM 88240

Submit 3 Copies  
 To Appropriate  
 District Office  
**DISTRICT I**  
 P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-103  
 Revised 1-1-89

**OIL CONSERVATION DIVISION**

2040 South Pacheco  
 Santa Fe, NM 87505

**DISTRICT II**  
 811 South First, Artesia NM 88210

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

WELL API NO. 30-025-24399	
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name: Blinebry-Drinkard Salt Water Disposal System	
8. Well No. C-2	9. Pool name or Wildcat

**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)

1. Type of Well:  
 Oil Well  Gas Well  Other Emergency pit and Below-grade Redwood Tank

2. Name of Operator  
 RICE OPERATING COMPANY

3. Address of Operator  
 122 West Taylor, Hobbs, NM 88240

4. Well Location  
 Unit letter C : 660 feet from the NORTH line and 2305 feet from the WEST line  
 Section 2 Township 22 South Range 37 East NMPM, Lea County, NM

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
 3360' above sea level

Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK	PLUG AND ABANDON WORK	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CEMENT JOB	
OTHER: <u>Remove below-grade redwood tanks and close emergency pit</u>		OTHER: _____	

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103.

**Proposed work according to generic closure plans for below grade redwood tanks and permitted pits:**

Delineate site for contamination, remove redwood tanks, close emergency overflow pit (Pit Permit # H-69) and clean-up location pursuant to NMOCD guidelines. Replace redwood tanks with steel or fiberglass tanks within an engineered secondary-containment. Work to begin as soon as OCD approves closure plan (attached). All major events, including boring, sampling 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 60' and indicate closest water well to be in Unit "P" of Section 2, T22S-R37E, which is more than 1000' from the facility at Well C-2. Topographic maps show no indication of surface water bodies within 1000' of the C-2 facility. A site review indicated no water sources within 1000' feet of the facility.

Depth to ground water: 50-99' = 10; No water source within 1000' = 0; >1000' to surface water body = 0 **Site Assessment=10**

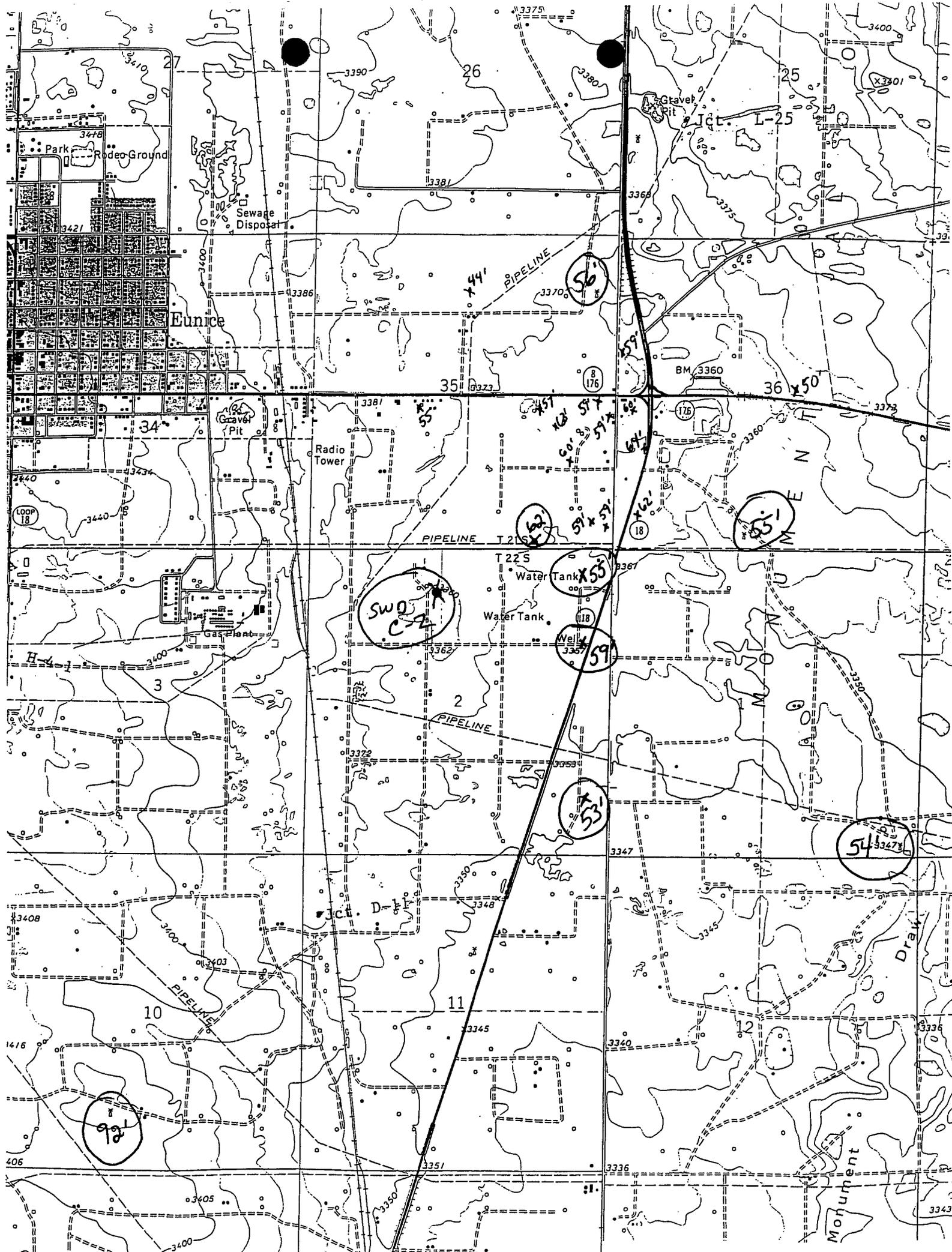
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Carolyn Doran Haynes TITLE OPERATIONS ENGINEER DATE 3/22/99

Type or print name CAROLYN DORAN HAYNES Telephone No. 505-393-9174

(This space for State use)  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of approval, if any:



Eunice

Gravel Pit

Radio Tower

Water Tank

Water Tank

Well

SWD  
C-2

Monument

Drain

Sewage Disposal

Gravel Pit

L-25

PIPELINE T 21 S

PIPELINE

PIPELINE

Park Rodeo Ground

LOOP 18

8 176

18

18

53

53

59

54

55

56

44'

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

92

35

36

34

3

2

11

12

26

25

3390

3380

3400

3381

3375

3386

3370

3381

3373

3372

3367

3372

3353

3372

3353

3372

3353

3372

3353

3372

3353

3372

3353

3366

BM 3360

3367

3347

3340

3336

3340

3330

1416

406

3405

3400

3408

3403

3406

3400

3421

3418

3410

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

3400

X3301

BM 3360

176

18

18

18

18

18

18

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

N

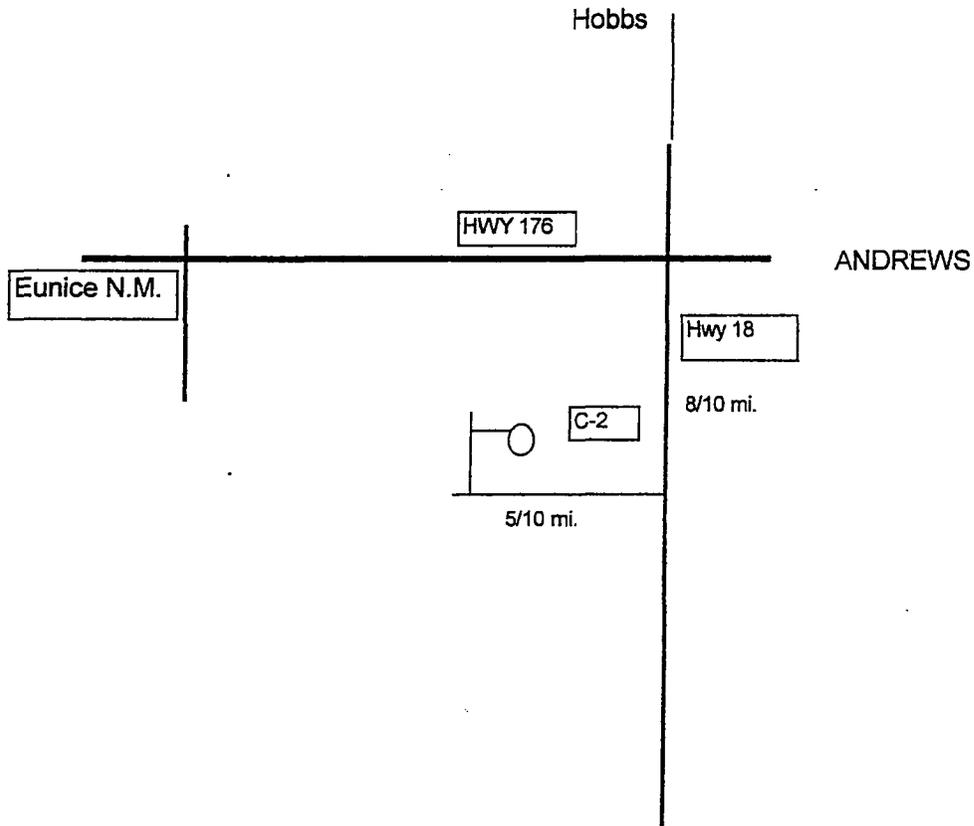
N

N

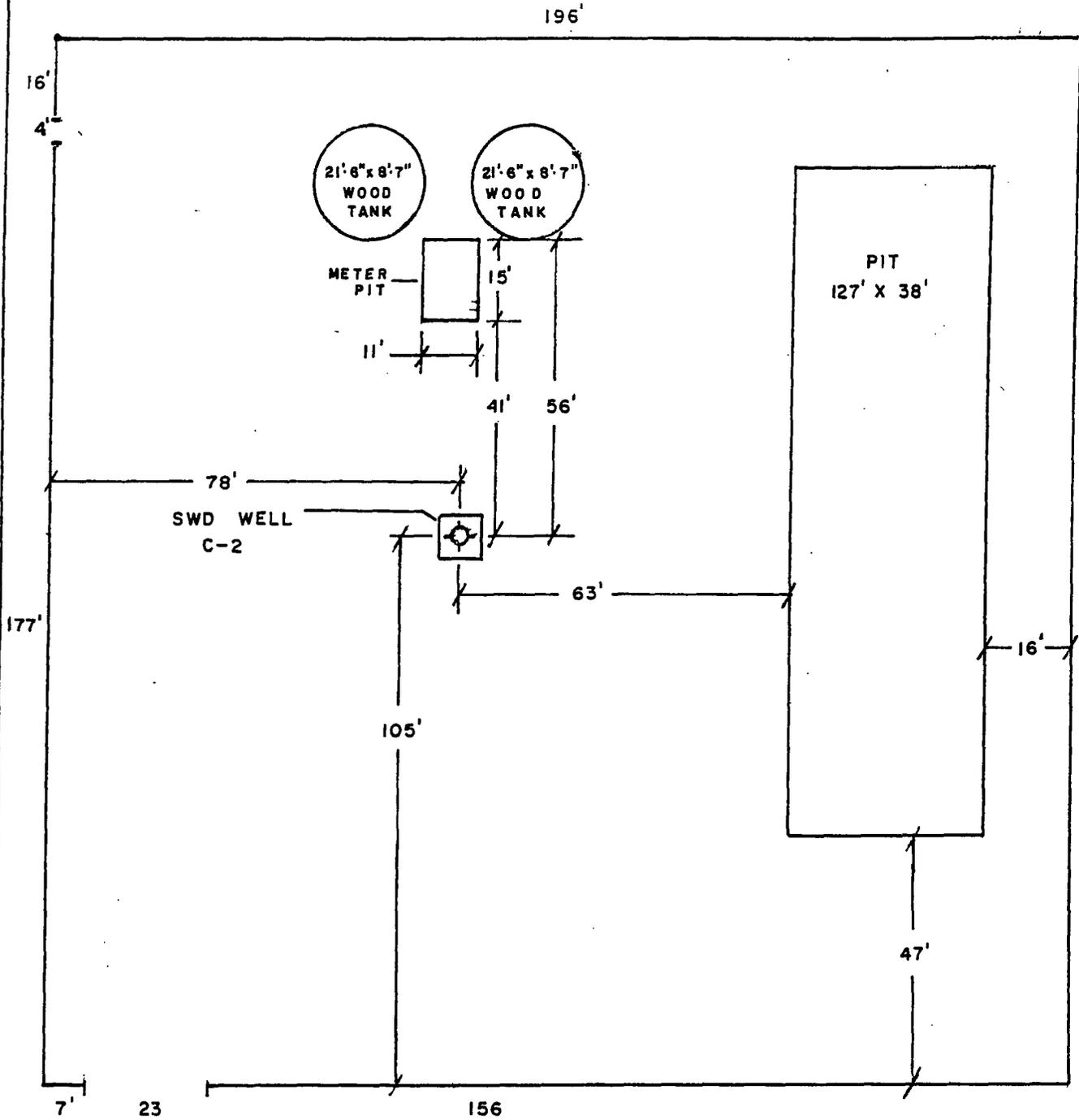
N

System: B-D  
Well: C-2  
Legals: 2-22S-37E

From the junction of hwy 176 and Hwy 18. Go south on Hwy 18 for 8/10 mile.  
Turn right through cattle guard and go 5/10 mile west. Turn right and go 2/10  
mile north then turn right into location.

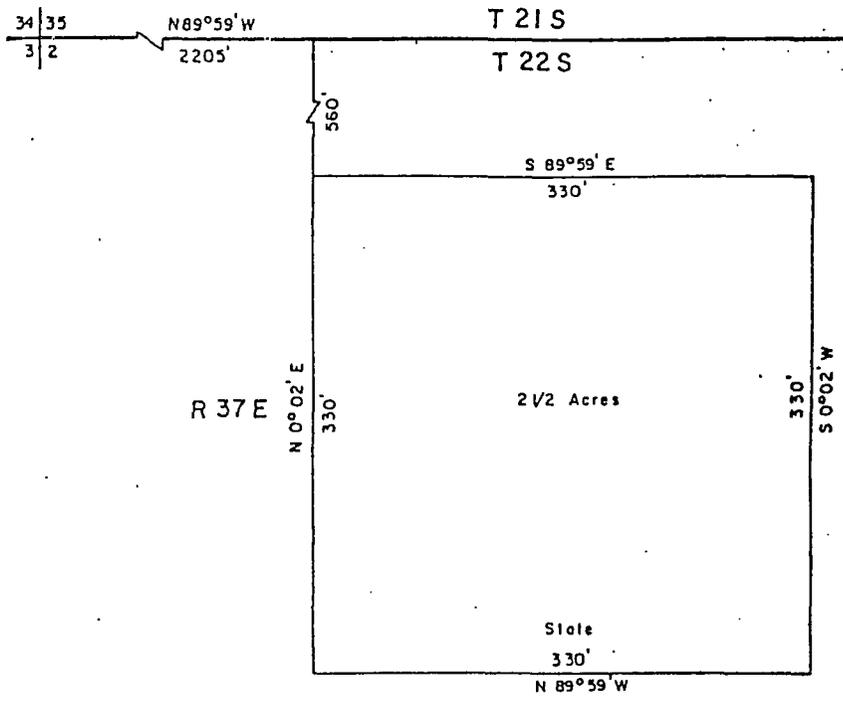


NE/4,NW/4,SEC.2,T22S,R37E  
LEA, COUNTY NM



NOTE: WELL LOCATION ON 2-1/2 ACRES IN UNIT C  
WELL C-2: 660' FROM NORTH LINE AND 2305' FROM WEST LINE

DWN	SRT	3-99	BLINEBRY DRINKARD SWD WELL C-2 SCHEMATIC OF LOCATION	SCALE 1" = 30'
				Rice Engineering & Operating, Inc. Hobbs, New Mexico



*BLD*  
*C-2*

DESCRIPTION

A tract of land containing 2½ acres, more or less, being a certain part of the northeast quarter, of the northwest quarter, of Section 2, Township 22 South, Range 37 East, N. M. P. M., Lea County, New Mexico, and more particularly described as follows:

Beginning at a point, from which the northwest corner of said Section 2, bears north 0°02' east, a distance of 560 feet, and north 89°59' west, a distance of 2205 feet; thence, south 89°59' east, a distance of 330 feet to a point; thence, south 0°02' west, a distance of 330 feet to a point; thence, north 89°59' west, a distance of 330 feet to a point; thence, north 0°02' east, a distance of 330 feet to the point of beginning.

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BOHA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**REGISTERED PROFESSIONAL ENGINEER**  
**LAND SURVEYOR**  
*John W. West*  
JOHN W. WEST, N.M. E. & L.S. NO. 678  
TEXAS R.P.S. NO. 1138  
NEW MEXICO  
JOHN W. WEST

RICE ENGINEERING CORP.	
Hobbs	New Mexico
State Easement for 2½ acres of land, located in the NE¼, NW¼, Section 2, Township 22 South, Range 37 East, NMPH., Lea County, New Mexico.	
BLINEBRY-DRINKARD SWD WELL C-2	
JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS HOBBS, NEW MEXICO	
Scale 1" = 200'	Drawn by chb
Date 3/13/90	Sheet 1 of 1 Sheets



NEW MEXICO STATE LAND OFFICE  
APPRAISEMENT OF STATE INSTITUTIONAL LANDS  
FOR salt water disposal PURPOSES

To the Commissioner of Public Lands, Santa Fe, N. M.

SIR:

I have personally inspected the following described tract of land in Lea County, New Mexico, and submit this appraisal report together with a statement of the natural character and conditions thereof:

SUBDIVISION	SEC.	TWP.	RANGE	ACRES
NE/4 NW/4	2	22S	37E	2.50

Attach Exhibit if more space is needed for entire description or to complete answers below

CHARACTER OF LAND

Answer the following questions in all appraisals:

State the best use for which the land may be adapted: Grazing

State what other uses, if any, it may be or is being used for: Unknown

What is the general terrain or topography of the land? Rolling terrain

What type(s) of soil? Sandy loam. Are there any signs of erosion? Yes

If so, what type and to what extent? Minor wind erosion

What kind of vegetation is on the land, including grasses, if any? Mesquite & gramma grass

Is the land cultivated, grassland, or other? Grassland

If cultivated, is it dryland or irrigated farm land? (State acreage involved.) Not cultivated

Are there any natural streams, rivers, springs, ponds, and water holes on the land? If so, describe same  
None

State kind of merchantable timber, quality, and present condition, if any None

What irrigation ditches are on the land? If non, then distance of nearest one  
None within 10 miles

State the number of wells, depth and type on the land, whether used for domestic, irrigations, or other purposes  
2 producing oil wells, 5175' and 6497' in total depth

State nearest distance to city, town, or village limits and name of municipality  
Eunice, New Mexico, approx. 1 mi. northwest

Are there any existing or abandoned utility (electric, telephone, or telegraph) lines, railroads, public roads or highways, pipelines, borrow pits, material pits, cooperative irrigation ditches, reservoirs, airports, land strips, or trash dumps on the land? Yes. If so, please describe and give approximate location:  
Oil & salt water disposal lines. If any of the above are found on the land, are they a benefit or detriment to the land? Explain: No detriment

List all improvements, their location, and value (including, but not limited to, houses, barns, stables, their sizes and how built; wells and their depth and description; windmills; fences, their amount, kind, and length; and all other improvements) None

Name and address of present owner of improvements is: \_\_\_\_\_  
\_\_\_\_\_ State if any trespass or waste has been done to the  
land, or to any existing natural products thereon, and in what manner, by whom if known, and how it detracts  
from the value of the land: None

Does the land have any recreational potential, such as cabin sites, etc.? Explain: None

Answer the following questions in specific category for which application is made by applicant:

BUSINESS LEASE :

If known, what type of business is the land going to be used for by the applicant? \_\_\_\_\_

Or is the land being leased for speculative purposes, if known? \_\_\_\_\_

Estimate how much the parcel would lease for on a yearly basis for commercial purposes \_\_\_\_\_

List amounts for which parcels of fee land similarly situated lease for (monthly or annual rentals) \_\_\_\_\_  
\_\_\_\_\_. If land applied for is within municipal limits, state type and  
kinds of businesses or uses to which surrounding properties are being put \_\_\_\_\_

State what (type and kind) improvements are located on this land that are beneficial to and consistent with  
business or commercial use of this land \_\_\_\_\_

RIGHT OF WAY AND WATER EASEMENT:

Is this State land within a declared water basin? \_\_\_\_\_

Will the construction or use of this right of way (water easement) increase or decrease the value of surrounding  
State lands? \_\_\_\_\_ How? \_\_\_\_\_

Have you examined the plat (survey for right of way) accompanying the application? \_\_\_\_\_

If yes, then is the acreage (width) requested sufficient or excessive for purposes of the right of way?  
\_\_\_\_\_. Are there any other rights of way (easements) that bisect or cross over the one being  
applied for? \_\_\_\_\_. What type and kind? \_\_\_\_\_

Are there any existing water wells within one mile of lands inspected? \_\_\_\_\_

If so, how many and how far distant therefrom? \_\_\_\_\_

If known, at what depth is fresh water known to exist in this area? \_\_\_\_\_

If known, what damage will be done, if any, to the tangible property of state's prior patentees or lessees of  
this land by reason of applicant's use in making and constructing of a right of way (water easement) as  
requested? \_\_\_\_\_

SALT WATER DISPOSAL SITES:

Have you examined the plat showing the disposal well(s) from which produced salt water is to be disposed of  
together with necessary pipelines and haul roads, if any? Yes

If known, what is the formation into which the salt water will be injected? San Andres

\_\_\_\_\_. Will a pipeline, roadway, or other means of conveyance  
be necessary to dispose of the salt water in the instant application? Yes

If so, what? 6" PVC plastic flowline

What tangible surface damage, if any, will occur to other state lessees or patentees by the proposed salt water  
disposal site, roadway, or pipeline? None

Based upon your examination of the land applied for, is there an existing abandoned dry hole(s) located  
hereon? None. To what depth, if known? \_\_\_\_\_

AFFIDAVIT

STATE OF NEW MEXICO  
COUNTY Lea } ss

I am well acquainted with the character of said described land and that my personal knowledge of said land is such as to enable me to testify understandingly with regard thereto.

After having personally inspected the within described tract of land, I HEREBY APPRAISE THE SAME at and state the ACTUAL CASH VALUE of same for the purpose desired to be \$ 100.00 (indicate per acre, square foot, or other), and certify that I am not interested in said land or leasing or sale thereof.

Signed *[Signature]*

P. O. 610 Cottonwood Lane, Hobbs, New Mexico

Subscribed and sworn (affirmed) to before me this 16th day of March, 19 90.

My Commission Expires: 10-15-90

*[Signature: Janette Paul]*

NOTE: The Laws of New Mexico require that all statements in appraisements must be made from personal knowledge, and not upon information and belief; save only those with reference to the actual value of the land appraised. This appraisement must be sworn to before a Notary Public or County Magistrate.

District I - (505) 393-6161  
P. O. Box 1900  
Hobbs, NM 88241-1900  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Benzon Road  
Aztec, NM 87410  
District IV - (505) 827-7131

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

Originated 6/27/97

Submit Original  
Plus 1 Copy  
to Santa Fe

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY

Address: 122 WEST TAYLOR  
HOBBS, NEW MEXICO 88240

Phone Number: (505) 393-9174

Previous Operator(s): Agua Operating

Is the pit permitted: Yes  No

Unit Letter: C Section: 2 Township: 22S Range: 37E

County: Lea County

Location Name: Blinebry Drinkard Salt Water Disposal System Well C-2

Number of wells to the pit: 1

Are the wells to the pit operated by one operator  or multiple operators

Total daily volume (in barrels) to the pit: None

Pit Type: Emergency

(Emergency, Production, Workover, Reserve/Drilling (greater than 6 months old), Flare, Blowdown, Separator, Dehydrator, Line Drip, BSAW/Tank Bottoms, Compressor Piggings, Washdown, or other)

What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water)

Pit age (years): 30

Is the pit lined  or unlined

Type of liner (None, Synthetic, Clay): None

Is leak detection present: Yes  No

Is the pit netted: Yes  No

Pit dimensions (LxWxD): 127' X 38' X 7'

CERTIFICATION

I hereby certify that the information submitted is true and correct to the best of my knowledge and belief.

Name: Roger Hall Title: Operations Engineer

Signature: Roger Hall Date: 10/28/97

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

# OIL CONSERVATION DIVISION

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

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

Permit No. H-69  
(For Division Use Only)

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

## 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 Rule 711(D)

Operator Name: Rice Engineering Corporation

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

Lease or Facility Name Blinebry-Drinkard SWD Well # C-2 Location C 2 22S 37E

Size of pit or tank: 127' x 38' x 7' Deep Approx. 6000 BBLs

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

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, Major well remedial work.

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

Method: Vacuum truck

Time: within 24 hours of discovery

2) If any oil or hydrocarbons reach the above-described facility the operator is required to notify the 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 S.A. Haktanir Title Division Manager Date 7-27-90

Printed Name S.A. Haktanir Telephone No. 505 393-9174

### FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected 8/1/90

Approved by \_\_\_\_\_

Inspected by Edwin Lee

Title \_\_\_\_\_

Date \_\_\_\_\_

District I - (505) 393-6161  
P.O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Artesia, NM 87410  
District IV - (505) 827-7131

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

Originated 6/27/97

Submit Original  
Plus 1 Copy  
to Santa Fe

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY  
Address: 122 WEST TAYLOR  
HOBBS, NEW MEXICO 88240  
Phone Number: (505) 393-9174  
Previous Operator(s): Agua Operating  
Is the pit permitted: Yes  No   
Unit Letter: C Section: 2 Township: 22S Range: 37E  
County: Lea County  
Location Name: Blinebry Drinkard Salt Water Disposal Well C-2  
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: 5,300  
Pit Type: 2-below ground redwood terminal tanks  
(Emergency, Production, Workover, Reserve/Drilling (greater than 6 months old), Flare, Blowdown, Separator, Dehydrator, Line Drop, BS&W/Tank Bottoms, Compressor, Pigging, Washdowns, or other)  
What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water)  
Pit age (years): 30  
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 21'-6" dia X 8'-7" Ht

CERTIFICATION

I hereby certify that the information submitted is true and correct to the best of my knowledge and belief.

Name: Roger Hall Title: Operations Engineer  
Signature: Roger Hall Date: 10/30/97

Submit 3 Copies  
 To Appropriate  
 District Office  
**DISTRICT I**  
 P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-103  
 Revised 1-1-89

**OIL CONSERVATION DIVISION**

2040 South Pacheco  
 Santa Fe, NM 87505

**DISTRICT II**  
 811 South First, Artesia NM 88210

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

WELL API NO. 30-025-24399
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Blinebry-Drinkard Salt Water Disposal System
8. Well No. C-2
9. Pool name or Wildcat

**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)

1. Type of Well:  
 Oil Well  Gas Well  Other Emergency pit and  
 Below-grade Redwood Tank

2. Name of Operator  
 RICE OPERATING COMPANY

3. Address of Operator  
 122 West Taylor, Hobbs, NM 88240

4. Well Location  
 Unit letter C : 660 feet from the NORTH line and 2305 feet from the WEST line  
 Section 2 Township 22 South Range 37 East NMPM, Lea County, NM

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
 3360' above sea level

Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CEMENT JOB	
OTHER: <u>Remove below-grade redwood tanks and close emergency pit</u>		OTHER: _____	

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103.

**Proposed work according to generic closure plans for below grade redwood tanks and permitted pits:**

Delineate site for contamination, remove redwood tanks, close emergency overflow pit (Pit Permit # H-69) and clean-up location pursuant to NMOCD guidelines. Replace redwood tanks with steel or fiberglass tanks within an engineered secondary-containment. Work to begin as soon as OCD approves closure plan (attached). All major events, including boring, sampling 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 60' and indicate closest water well to be in Unit "P" of Section 2, T22S-R37E, which is more than 1000' from the facility at Well C-2. Topographic maps show no indication of surface water bodies within 1000' of the C-2 facility. A site review indicated no water sources within 1000' feet of the facility.

Depth to ground water: 50-99' = 10; No water source within 1000' = 0; >1000' to surface water body = 0 **Site Assessment=10**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Carolyn Doran Haynes TITLE OPERATIONS ENGINEER DATE 3/22/99

Type or print name CAROLYN DORAN HAYNES Telephone 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, NM 88240  
Phone: (505) 393-9174 • Fax: (505) 397-1471

March 22, 1999

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

Mr. Price:

Rice Operating Company requests closure plan approval for the emergency overflow pit, Pit Permit # H-69 and the below-grade redwood tanks at the Blinebry Drinkard Salt Water Disposal Site SWD Well C-2, located in Unit C, Sec. 2, T22S, R37E, NMPM, Lea County, NM.

The C-2 facility is included in the Rice Operating Company (ROC) generic closure plan for emergency pits and below-grade redwood tanks and is the first facility to apply under the generic plan. This facility has recently experienced an accidental discharge due to a tank collapse and needs immediate attention. Rather than repair the below-grade redwood tank, it is ROC's intention to clean-up this site, close the emergency overflow pit and replace the below-grade redwood tanks with steel or fiberglass tanks set in an engineered secondary containment. ROC expects to simultaneously close the pit and tank areas, but under separate closure plans and reports, pursuant to NMOCD guidelines. The C-103 form addresses this intention.

ROC is the service provider (operator) for this salt water disposal system and has no ownership of any portion of pipeline, well or facility. The Blinebry Drinkard System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. This location requires System Partner AFE approval and advance billing for closure funds. Only after funds are received can closure work begin.

A timely response to this closure plan will be appreciated. Thank you for your consideration.



Carolyn Doran Haynes  
Operations Engineer

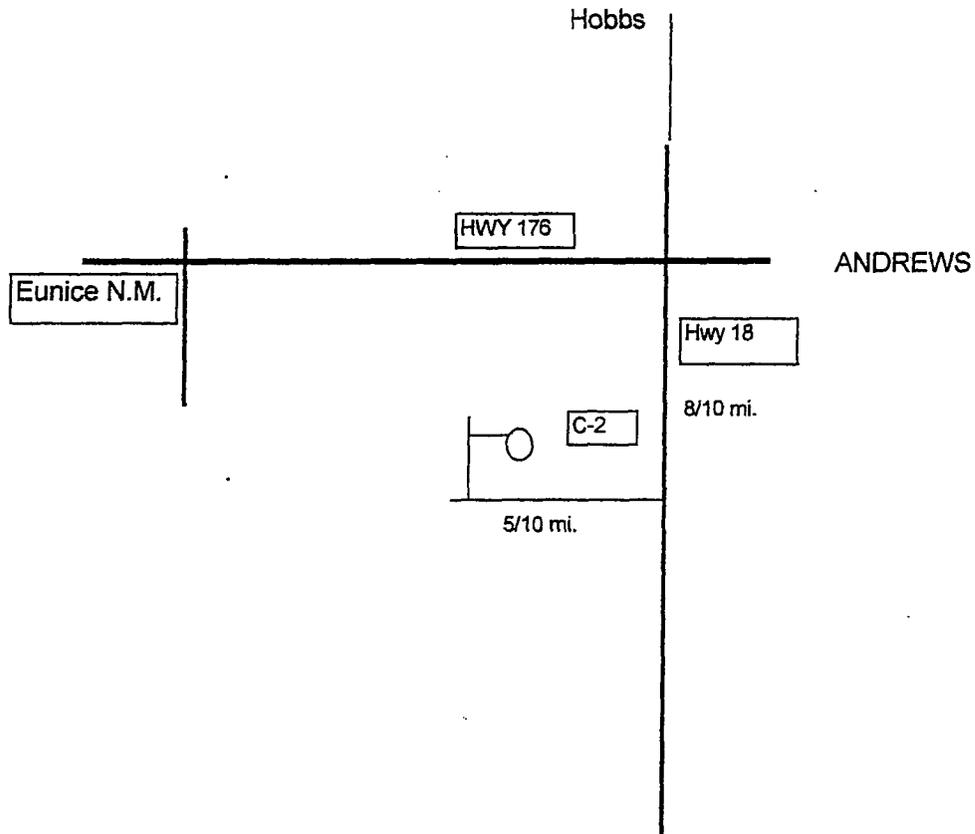
Enclosures

Cc: KH, file, Ms. Donna Williams,  
NMOCD, District I Office  
P. O. Box 1980  
Hobbs, NM 88240

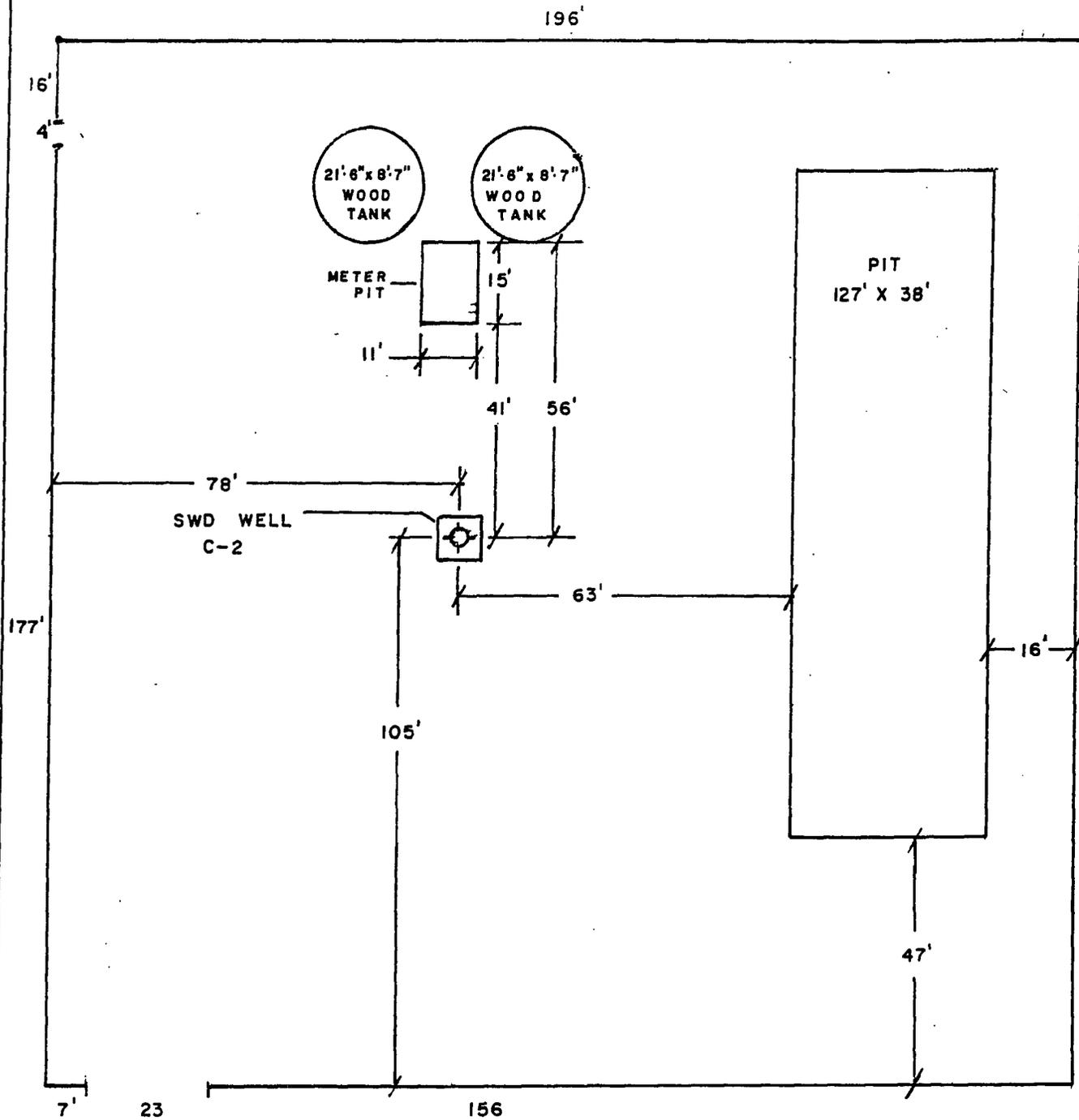


**System: B-D**  
**Well: C-2**  
**Legals: 2-22S-37E**

**From the junction of hwy 176 and Hwy 18. Go south on Hwy 18 for 8/10 mile. Turn right through cattle guard and go 5/10 mile west. Turn right and go 2/10 mile north then turn right into location.**

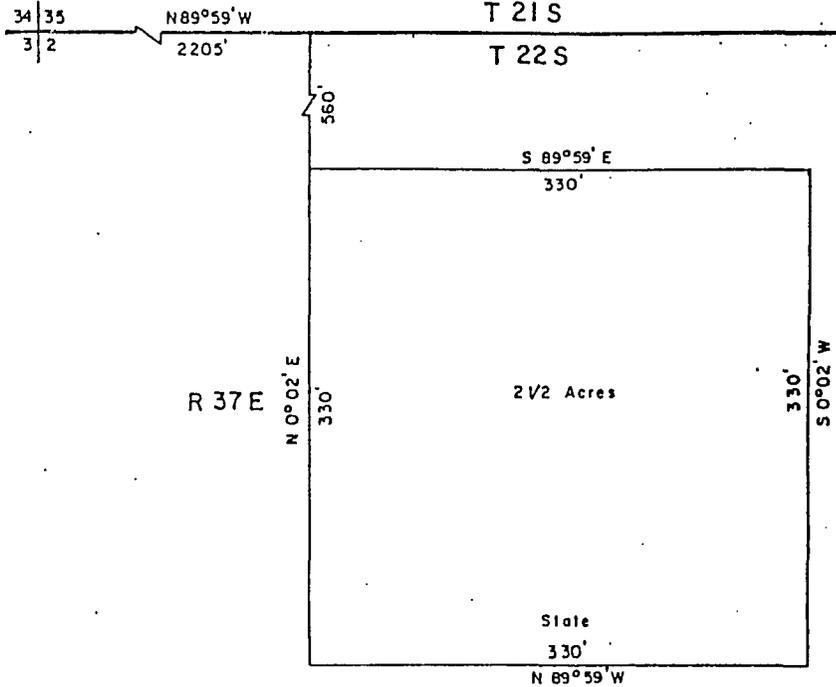


NE 1/4, NW 1/4, SEC. 2, T22S, R37E  
LEA, COUNTY NM



NOTE: WELL LOCATION ON 2-1/2 ACRES IN UNIT C  
WELL C-2: 660' FROM NORTH LINE AND 2305' FROM WEST LINE

DWN	SRT	3-99	BLINEBRY DRINKARD SWD WELL C-2 SCHEMATIC OF LOCATION	SCALE 1" = 30'
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO.



*BLO*  
C-2

DESCRIPTION

A tract of land containing 2½ acres, more or less, being a certain part of the northeast quarter, of the northwest quarter, of Section 2, Township 22 South, Range 37 East, W. M. P. M., Lea County, New Mexico, and more particularly described as follows:

Beginning at a point, from which the northwest corner of said Section 2, bears north 0°02' east, a distance of 560 feet, and north 89°59' west, a distance of 2205 feet; thence, south 89°59' east, a distance of 330 feet to a point; thence, south 0°02' west, a distance of 330 feet to a point; thence, north 89°59' west, a distance of 330 feet to a point; thence, north 0°02' east, a distance of 330 feet to the point of beginning.

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BOHA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*John W. West*  
 JOHN W. WEST, N.M. S.E. & L.S. NO. 078  
 TEXAS R.P.S. NO. 1138  
 REGISTERED PROFESSIONAL ENGINEER  
 LAND AND SURVEY  
 NEW MEXICO  
 JOHN W. WEST

RICE ENGINEERING CORP.	
Hobbs	New Mexico
State Easement for 2½ acres of land, located in the NE¼, NW¼, Section 2, Township 22 South, Range 37 East, NMPM., Lea County, New Mexico.	
BLINEBRY-DRINKARD SWD WELL C-2	
JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS HOBBS, NEW MEXICO	
Scale 1" = 200'	Drawn by chb
Date 3/13/90	Sheet 1 of 1 Sheets



# NEW MEXICO STATE LAND OFFICE

APPRAISEMENT OF STATE INSTITUTIONAL LANDS  
FOR salt water disposal PURPOSES

To the Commissioner of Public Lands, Santa Fe, N. M.

SIR:

I have personally inspected the following described tract of land in Lea County, New Mexico, and submit this appraisement report together with a statement of the natural character and conditions thereof:

SUBDIVISION	SEC.	TWP.	RANGE	ACRES
NE/4 NW/4	2	22S	37E	2.50

Attach Exhibit if more space is needed for entire description or to complete answers below

### CHARACTER OF LAND

Answer the following questions in all appraisals:

State the best use for which the land may be adapted: Grazing

State what other uses, if any, it may be or is being used for: Unknown

What is the general terrain or topography of the land? Rolling terrain

What type(s) of soil? Sandy loam. Are there any signs of erosion? Yes

If so, what type and to what extent? Minor wind erosion

What kind of vegetation is on the land, including grasses, if any? Mesquite & gramma grass

Is the land cultivated, grassland, or other? Grassland

If cultivated, is it dryland or irrigated farm land? (State acreage involved.) Not cultivated

Are there any natural streams, rivers, springs, ponds, and water holes on the land? If so, describe same  
None

State kind of merchantable timber, quality, and present condition, if any None

What irrigation ditches are on the land? If non, then distance of nearest one  
None within 10 miles

State the number of wells, depth and type on the land, whether used for domestic, irrigations, or other purposes  
2 producing oil wells, 5175' and 6497' in total depth

State nearest distance to city, town, or village limits and name of municipality  
Eunice, New Mexico, approx. 1 mi. northwest

Are there any existing or abandoned utility (electric, telephone, or telegraph) lines, railroads, public roads or highways, pipelines, borrow pits, material pits, cooperative irrigation ditches, reservoirs, airports, land strips, or trash dumps on the land? Yes. If so, please describe and give approximate location:  
Oil & salt water disposal lines. If any of the above

are found on the land, are they a benefit or detriment to the land? Explain: No detriment

List all improvements, their location, and value (including, but not limited to, houses, barns, stables, their sizes and how built; wells and their depth and description; windmills; fences, their amount, kind, and length; and all other improvements) None

Name and address of present owner of improvements is: \_\_\_\_\_  
State if any trespass or waste has been done to the land, or to any existing natural products thereon, and in what manner, by whom if known, and how it detracts from the value of the land: None

Does the land have any recreational potential, such as cabin sites, etc.? Explain: None

Answer the following questions in specific category for which application is made by applicant:

BUSINESS LEASE :

What type of business is the land going to be used for by the applicant? \_\_\_\_\_

Or is the land being leased for speculative purposes, if known? \_\_\_\_\_

Estimate how much the parcel would lease for on a yearly basis for commercial purposes \_\_\_\_\_

List amounts for which parcels of fee land similarly situated lease for (monthly or annual rentals) \_\_\_\_\_  
If land applied for is within municipal limits, state type and kinds of businesses or uses to which surrounding properties are being put \_\_\_\_\_

State what (type and kind) improvements are located on this land that are beneficial to and consistent with business or commercial use of this land \_\_\_\_\_

RIGHT OF WAY AND WATER EASEMENT:

Is this State land within a declared water basin? \_\_\_\_\_

Will the construction or use of this right of way (water easement) increase or decrease the value of surrounding State lands? \_\_\_\_\_ How? \_\_\_\_\_

Have you examined the plat (survey for right of way) accompanying the application? \_\_\_\_\_

If yes, then is the acreage (width) requested sufficient or excessive for purposes of the right of way? \_\_\_\_\_  
Are there any other rights of way (easements) that bisect or cross over the one being applied for? \_\_\_\_\_ What type and kind? \_\_\_\_\_

Are there any existing water wells within one mile of lands inspected? \_\_\_\_\_

If so, how many and how far distant therefrom? \_\_\_\_\_

If known, at what depth is fresh water known to exist in this area? \_\_\_\_\_

If known, what damage will be done, if any, to the tangible property of state's prior patentees or lessees of this land by reason of applicant's use in making and constructing of a right of way (water easement) as requested? \_\_\_\_\_

SALT WATER DISPOSAL SITES:

Have you examined the plat showing the disposal well(s) from which produced salt water is to be disposed of together with necessary pipelines and haul roads, if any? Yes

If known, what is the formation into which the salt water will be injected? San Andres

Will a pipeline, roadway, or other means of conveyance be necessary to dispose of the salt water in the instant application? Yes

If so, what? 6" PVC plastic flowline

What tangible surface damage, if any, will occur to other state lessees or patentees by the proposed salt water disposal site, roadway, or pipeline? None

Based upon your examination of the land applied for, is there an existing abandoned dry hole(s) located hereon? None To what depth, if known? \_\_\_\_\_

AFFIDAVIT

STATE OF NEW MEXICO  
COUNTY Lea } ss

I am well acquainted with the character of said described land and that my personal knowledge of said land is such as to enable me to testify understandingly with regard thereto.

After having personally inspected the within described tract of land, I HEREBY APPRAISE THE SAME at and state the ACTUAL CASH VALUE of same for the purpose desired to be \$ 100.00 (indicate per acre, square foot, or other), and certify that I am not interested in said land or leasing or sale thereof.

Signed *Janet Hill*

P. O. 610 Cottonwood Lane, Hobbs, New Mexico

Subscribed and sworn (affirmed) to before me this 16th day of March,  
19 90.

My Commission Expires: 10-15-90

*Jeanette Paul*

NOTE: The Laws of New Mexico require that all statements in appraisements must be made from personal knowledge, and not upon information and belief; save only those with reference to the actual value of the land appraised. This appraisement must be sworn to before a Notary Public or County Magistrate.

District I - (505) 393-6161  
P.O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Boscon Road  
Aztec, NM 87410  
District IV - (505) 827-7131

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

Originated 6/27/97

Submit Original  
Plus 1 Copy  
to Santa Fe

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY  
Address: 122 WEST TAYLOR  
HOBBS, NEW MEXICO 88240  
Phone Number: (505) 393-9174  
Previous Operator(s): Agua Operating  
Is the pit permitted: Yes  No   
Unit Letter: C Section: 2 Township: 22S Range: 37E  
County: Lea County  
Location Name: Blinebry Drinkard Salt Water Disposal System Well C-2  
Number of wells to the pit: 1  
Are the wells to the pit operated by one operator  or multiple operators   
Total daily volume (in barrels) to the pit: None  
Pit Type: Emergency  
(Emergency, Production, Workover, Reserve/Drilling (greater than 6 months old), Flare, Blowdown, Separator, Dehydrator,  
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): 30  
Is the pit lined  or unlined   
Type of liner (None, Synthetic, Clay): None  
Is leak detection present: Yes  No   
Is the pit netted: Yes  No   
Pit dimensions (LxWxD): 127' X 38' X 7'

CERTIFICATION

I hereby certify that the information submitted is true and correct to the best of my knowledge and belief.

Name: Roger Hall Title: Operations Engineer  
Signature: Roger Hall Date: 10/28/97

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

# OIL CONSERVATION DIVISION

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

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

Permit No. H-69  
(For Division Use Only)

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

## 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 Rule 711(I)

Operator Name: Rice Engineering Corporation

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

Lease or Facility Name Blinebry-Drinkard SWD Well # C-2 Location C 2 22S 37E  
-Ut. Ltr. Sec. Twp. Rgt.

Size of pit or tank: 127' x 38' x 7' Deep Approx 6000 BBLs

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

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, Major well remedial work.

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

Method: Vacuum truck

Time: within 24 hours of discovery

2) If any oil or hydrocarbons reach the above-described facility the operator is required to notify the 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 S.A. Haktanir Title Division Manager Date 7-27-90

Printed Name S.A. Haktanir Telephone No. 505 393-9174

### FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected 8/1/90

Approved by \_\_\_\_\_

Inspected by Edwin W. Lee

Title \_\_\_\_\_

Date \_\_\_\_\_

District I - (505) 393-6161  
P. O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Boscon Road  
Aztec, NM 87410  
District IV - (505) 827-7131

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

Originated 6/27/97

Submit Original  
Plus 1 Copy  
to Santa Fe

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY

Address: 122 WEST TAYLOR  
HOBBS, NEW MEXICO 88240

Phone Number: (505) 393-9174

Previous Operator(s): Agua Operating

Is the pit permitted: Yes  No

Unit Letter: C Section: 2 Township: 22S Range: 37E

County: Lea County

Location Name: Blinebry Drinkard Salt Water Disposal Well C-2

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: 5,300

Pit Type: 2-below ground redwood terminal tanks

(Emergency Production, Workover, Reserve/Drilling (greater than 6 months old), Flare, Blowdown, Separator, Dehydrator, Line Drip, BSE/W/Tank Bottoms, Compressor Piggings, Washdown, or other)

What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water)

Pit age (years): 30

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 21'-6" dia X 8'-7" Ht

CERTIFICATION

I hereby certify that the information submitted is true and correct to the best of my knowledge and belief.

Name: Roger Hall Title: Operations Engineer

Signature: Roger Hall Date: 10/30/97