

AP - 64

**GENERAL
CORRESPONDENCE**

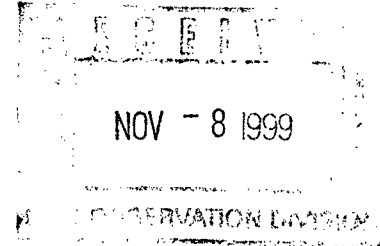
**DATE:
1999**

AP-64
Gen. Cor.
1999

RICE Operating Company

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

CERTIFIED MAIL
RETURN RECEIPT NO. Z 577 009 524



November 4, 1999

Mr. Wayne Price
State of NM Energy and Minerals Dept.
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Re: PIT REMEDIATION AND CLOSURE REPORT
Emergency Overflow Pit (Permit No. H-64)
Below-Ground Redwood Tank Excavation
SWD F-29 Facility
NW/4, Unit Letter F, Sec. 29, T18S, R38E
Lea County, NM

Dear Mr. Price:

Rice Operating Company (ROC) sincerely appreciates your consideration and response concerning finalizing the closure plans for the emergency overflow pit and the below-ground redwood tanks that are located at the F-29 Facility.

ROC has completed the clay layer installation as per NMOCD specifications and has backfilled the excavation and installed a berm around the storage tank area. The site pad has been graded and the facility has been returned to full service.

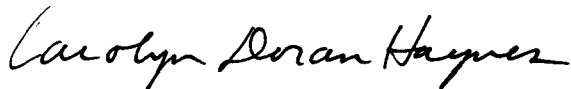
A sample of the clay used for the moisture barrier was submitted to Trinity Engineering Testing Corporation for the Proctor Test and permeability test. Trinity also conducted the field test of the in-situ clay layer. These results are attached to the Pit Remediation and Closure Report.

ROC has committed to a two-year, quarterly sampling plan to monitor groundwater at this site with results reported annually to the NMOCD. The ground water will be tested for BTEX, pH, TDS, Conductivity, T-Alkalinity, and routine major cations and anions: Na, Ca, Mg, K, Cl, SO₄, CO₃, HCO₃. The completed wellbore in the west part of the excavation has been extended to the surface, with a concrete pad poured around the well casing and a protective locking device installed on the casing. The well will be sampled pursuant to NMOCD specifications.

The source of contamination is removed, the moisture-barrier will be in place to prevent any percolation of contaminants downward, and natural attenuation will be relied upon to remediate the hydrocarbons remaining in the vadose zone over the foreseeable future.

At this time, ROC applies for closure at this facility and submits the Pit Remediation and Closure final report. As always, Rice Operating Company will appreciate timely consideration in this matter.

If you have any questions, please call.



Carolyn Doran Haynes
Operations Engineer

Enclosures: Pit Remediation and Closure Report
Clay Test Data
Property Deed Copy
Photos of Clay Layer Installation
Proposal of June 25, 1999 consisting of:
Revised Closure Plan Emergency Overflow Pit (Permit H-64) SWD F-29
Revised Closure Plan Below Ground Redwood Tanks SWD F-29
Pit Inventory Permit H-64
Maps and Analytical Data
Disposal Manifests

Cc: KH, LBG, file, Donna Williams
OCD Hobbs District
1625 N. French Drive
Hobbs, NM 88240

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>SWD F-29</u>										
Well Name _____										
Location: Unit or Qtr/Qtr Sec <u>SE/4 NW/4</u> Sec <u>29</u> T <u>18S</u> R <u>38E</u> County <u>Lea</u>										
Pit type: <u>Emergency Overflow Pit Permit # H-64; 2 Below-Ground Redwood Terminal Tanks (not permitted)</u>										
Land Type: BLM _____ State _____ Fee _____ Other <u>Owned by Rice Operating Company</u>										
Pit Location Pit Dimensions: length <u>63'</u> width <u>29'</u> depth <u>3'</u>										
(Attach diagram)										
Reference: wellhead <u>yes</u> other _____										
Footage from reference: <u>Center of pit is 60' West and then 30' North of wellhead</u>										
Direction from reference: _____ Degrees _____ East North _____ of West South _____										
Depth to Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water)	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Less than 50 feet</td> <td style="width: 20%;">(20 points)</td> <td style="width: 20%;"></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>20</u></td> </tr> </table>	Less than 50 feet	(20 points)		50 feet to 99 feet	(10 points)		Greater than 100 feet	(0 points)	<u>20</u>
Less than 50 feet	(20 points)									
50 feet to 99 feet	(10 points)									
Greater than 100 feet	(0 points)	<u>20</u>								
Wellhead Protection Area (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Yes</td> <td style="width: 20%;">(20 points)</td> <td style="width: 20%;"></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>								
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Less than 200 feet</td> <td style="width: 20%;">(20 points)</td> <td style="width: 20%;"></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>								
RANKING SCORE (TOTAL POINTS): <u>20</u>										

Date Remediation Started: January 1999 Date Completed: October 12, 1999

Remediation Method: Excavation Yes Approx. cubic yards 534

(Check all appropriate sections)

Landfarmed No

In-situ Bioremediation _____

Other Natural Attenuation

Remediation Location: Onsite _____ Offsite Sundance Services, East of Eunice, NM
(ie.: landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: Replaced below-grade redwood tanks with above ground steel tanks.

Excavated and disposed of highly impacted soil at the redwoods site and the overflow pit site. Installed clay layer as moisture barrier to prevent downward migration of contaminants remaining in place. Groundwater will be sampled quarterly for two years in order to ascertain if contaminants in place impact groundwater quality.

Clay layer compaction meets the criteria requested in NMOCD letter from Wayne Price dated September 2, 1999, with test results and color photo reproductions attached. Backfilled excavations with caliche.

Ground Water Encountered: No _____ Yes monitor well Depth 50 feet BGS

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

Sample location See attached diagram. All analytical reports, CoC, etc., are included in the accompanying copy of the June 25, 1999 submitted report.

Sample depth _____

Sample date _____ Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) _____

TPH _____

Ground Water Sample: Yes Yes No _____ (If yes, attach sample results)

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

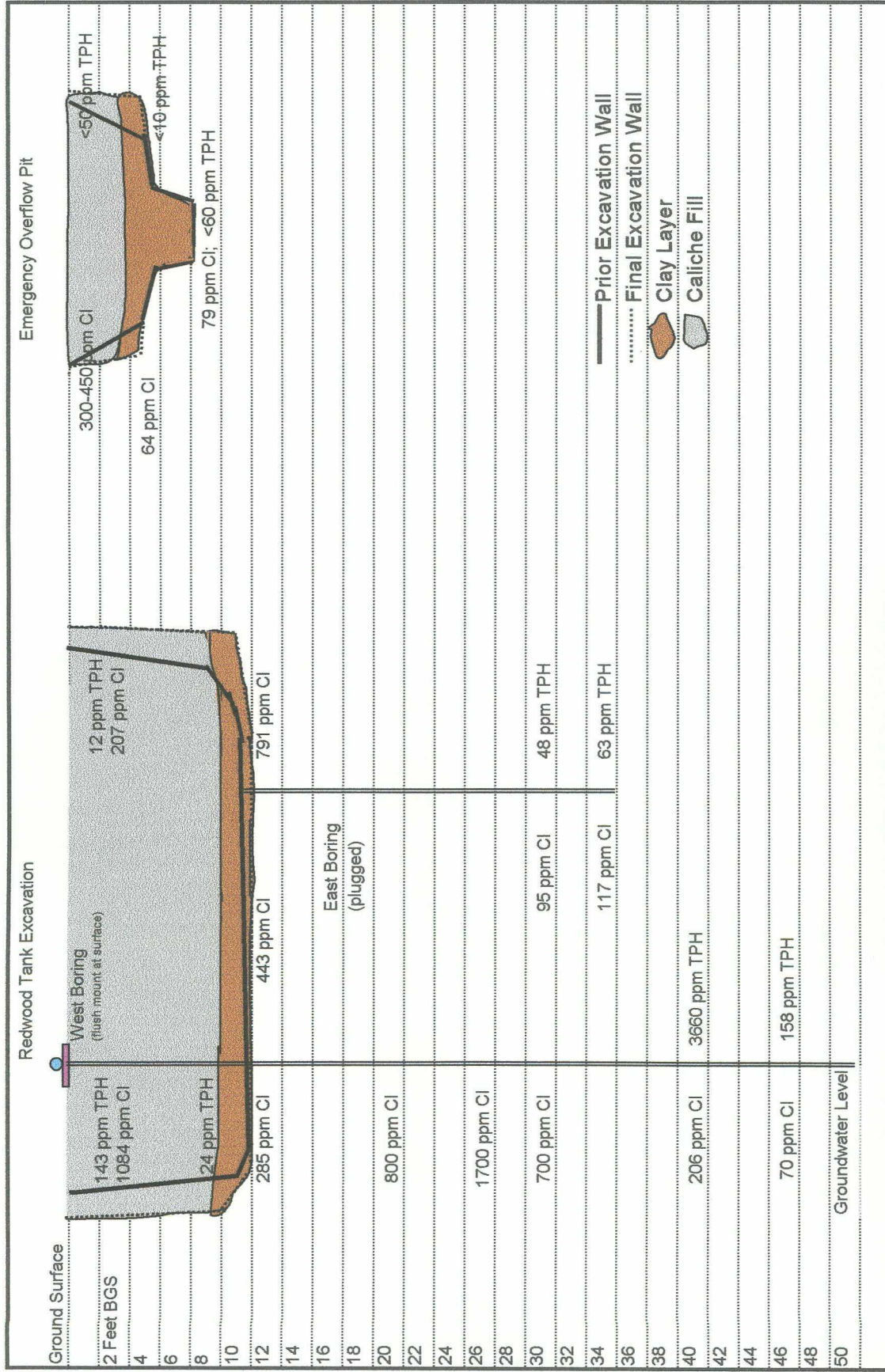
DATE November 4, 1999

PRINTED NAME CAROLYN DORAN HAYNES

SIGNATURE

Carolyn Doran Haynes

TITLE OPERATIONS ENGINEER



<p>Rice Operating Company 122 West Taylor Hobbs, NM 88240 (505) 393-9174</p>	<p>Chloride and TPH Delineation Clay Layer and Caliche Backfill</p>	<p>Redwood Tank Excavation and Emergency Overflow Pit SWD Well F-29 Unit Letter F, Sec 29-T18S-R38E Lea County, New Mexico</p>
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PHONE (915) 673-7000 • 11 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F.WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/05/99
Reporting Date: 03/06/99
Project Owner: RICE OPERATING
Project Name: SWD F-29
Project Location: 29-T18S-R38E, LEA CO., NM

Sampling Date: 03/05/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	CI ⁻ (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
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ANALYSIS DATE:	03/05/99	03/05/99	03/05/99	03/05/99	03/05/99
H4046-1 B-1	194	<0.002	<0.002	<0.002	<0.006
Quality Control	1335	0.089	0.095	0.092	0.276
True Value QC	1319	0.100	0.100	0.100	0.300
% Recovery	101	88.9	94.6	91.5	92.0
Relative Percent Difference	1.5	3.5	4.6	4.0	5.1

METHODS: CI⁻ Std. Methods 4500-CI⁻B; BTEX - EPA SW-846 8260

Burton A. Pashe
Chemist

3/16/99
Date

H4046.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.



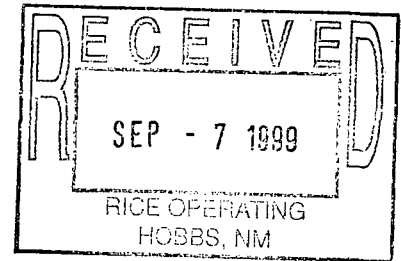
NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

September 2, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z 357 870 141

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



Re: Closure Plans
Below-Ground Redwood Tank Excavation
Emergency Overflow Pit (Permit No. H-64)
SWD F-29
SE/4 NW/4 Sec 29-Ts18s-R38e
Lea County, NM

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Rice Operating Company's (ROC) letter dated June 25, 1999 and disposal manifest dated concerning the above captioned facility. ROC is requesting approval to modify its original plan for the Below-Ground Redwood Tank Excavation and Emergency Pit by utilizing a 10-12 inch thick packed-clay-layer barrier instead of a polyethylene liner, over-capp the horizontal extent of the contaminated area by an additional four to six feet to prevent lateral/absorption of moisture, deed record, and commit to a two-year quarterly sampling program and backfill the excavated areas.

The NMOCD approves of ROC's closure work plan with the following additional conditions:

1. ROC shall demonstrate that the Clay layer(s) compaction meets or exceeds 95% of a Proctor Test ASTM-D-698 and the permeability (hydraulic conductivity) is equal or less than 1×10^{-7} cm/sec.
2. Supply copy of deed recording and information requested in item #1 above in closure report.

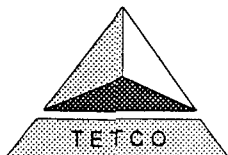
Please be advised that NMOCD approval of this site does not relieve ROC of liability should their operations fail to adequately investigate, remediate and/or contain contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not 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



TRINITY ENGINEERING TESTING CORPORATION

ODESSA, TX

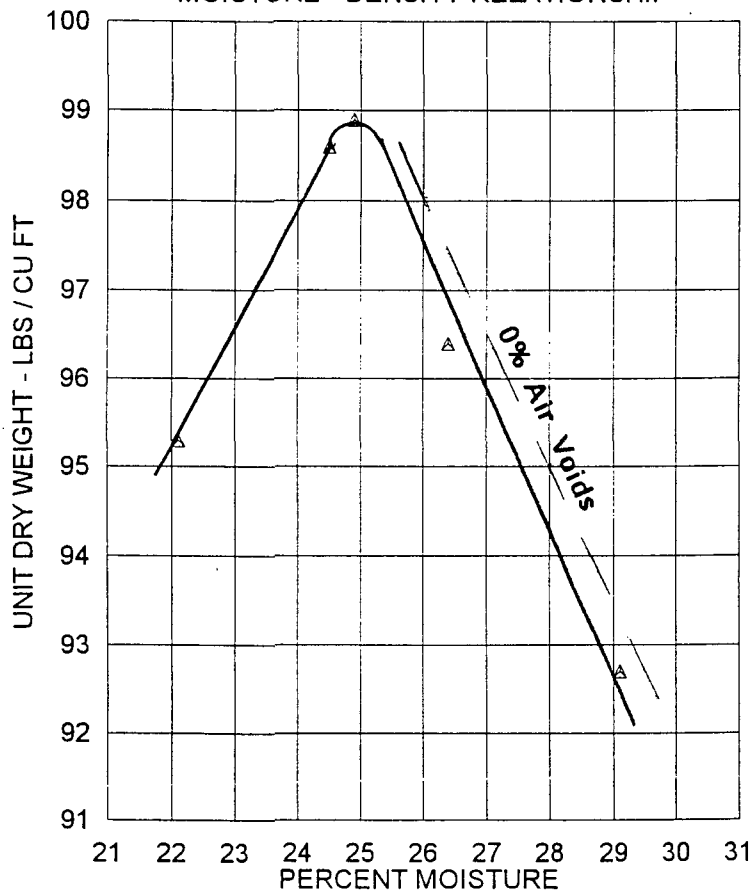
TO: Mr. Rob Elam
RE Environmental
P. O. Box 13418
Odessa, TX 79768

PROJECT: Hobbs, New Mexico Project

DATE: 09/22/99

REPORT NO.: O-69676

MOISTURE - DENSITY RELATIONSHIP



MATERIAL DESCRIPTION:
Red CLAY

SAMPLE NUMBER:

C-1350

SAMPLED BY:

Client; Received by Trinity on 9-21-99

TEST PERFORMED BY:

C. Kemper

TEST METHOD:

ASTM D 698-91, Method A,
dry prep., 5.5 lb. mech. rammer

TRIAL NO.	PERCENT MOISTURE	UNIT DRY WEIGHT LBS / CU FT
1	22.1	95.3
2	24.5	98.6
3	26.4	96.4
4	29.1	92.7

COPIES TO: 1-Above

OPTIMUM MOISTURE PERCENT: 24.9

MAXIMUM DENSITY LBS / CU FT: 98.9

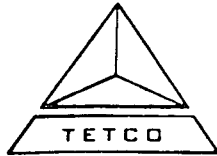
TRINITY ENGINEERING TESTING CORPORATION

Thomas R. Schlegel, P. E.

The results shown on this report are for the exclusive use of the client for whom they were obtained and apply only to the samples tested and/or inspected.

HOBBSRE

They are not intended to be indicative of qualities of apparently identical products. The use of our name must receive prior written approval.



TRINITY ENGINEERING TESTING CORPORATION

Odessa, TEXAS

TO: RE Environmental
Attn: Mr. Rob Elam
P. O. Box 13418
Odessa, TX 79768

PROJECT: Hobbs, New Mexico Project

DATE: 10-6-99
REPORT NO.: O-69733

REPORT OF: Falling Head with Rising Tailwater Permeability Tests

METHOD: Corps of Engineers EM-1110-2-1906 Appendix VII; Tests performed by R. Poston

MATERIAL: C-1350; Red CLAY remolded to near 95% of ASTM D 698 density;
Material sampled by client and received by Trinity Engineering on 9-21-99

RESULTS: 1.73×10^{-8} cm/sec

Copies to: 3-Above

TRINITY ENGINEERING TESTING CORPORATION

William C. Hamilton, P.E.

The results shown on this report are for the exclusive use of the client for whom they were obtained and apply only to the samples tested and/or inspected. They are not intended to be indicative of the qualities of apparently identical products. The use of our name must receive our prior written approval.

RETURN ORIGINAL TO UNITED NEW MEXICO TRUST CO. PO BOX 5614
HOBBS NM 88241-5614

SPECIAL
WARRANTY DEED

DEED 497 PAGE 175

MARY EVELYN GRIMES MADDOX

_____, for consideration paid, grants to
RICE ENGINEERING CORPORATION
whose address is 122 W. TAYLOR, HOBBS, NEW MEXICO
the following described real estate in LEA County, New Mexico:

SURFACE TITLE ONLY:

AN UNDIVIDED TWO-THIRD INTEREST IN THE SE¹/₄ OF the NW¹/₄
TOWNSHIP 18 SOUTH, RANGE 38 EAST, N.M.P.M. LEA COUNTY,
NEW MEXICO BEING FULLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT N.00°00'2"E, 3254.44 FEET AND WEST,
3390.32 FEET FROM SOUTHEAST CORNER OF SAID SECTION 29,
THENCE WEST, 433.17 FEET TO A POINT ON THE EAST RIGHT
OF WAY LINE OF WEST COUNTY ROAD BYPASS, ALSO A POINT
ON A CURVE TO THE NORTHEAST. THENCE ALONG THIS CURVE
(HAVING A CENTRAL ANGLE OF 20°20'39", A RADIUS OF 960.00
FEET AND A CHORD BEARING AND DISTANCE OF N. 43°04'56"E.,
339.08 FEET) A LENGTH OF 340.87 FEET; THENCE N.53°15'10"E.,
79.40 FEET; THENCE EAST, 137.94 FEET; THENCE SOUTH,
295.16 FEET TO THE POINT OF BEGINNING. SAID TRACT
CONTAINS 2.068 ACRES MORE OR LESS.

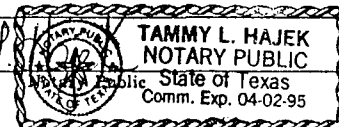
with special warranty covenants.

WITNESS MY hand and seal this 16th day of
October 1993. MARY EVELYN GRIMES MADDOX
(Seal)
Mary Evelyn Grimes Maddox (Seal)
(Seal)
(Seal)

TEXAS
STATE OF NEW MEXICO, } ss.
County of _____

The foregoing instrument was acknowledged before me this 16th day of October
1993 by MARY EVELYN GRIMES MADDOX

My Commission expires April 2, 1995



STATE OF NEW MEXICO, }

County of Lea } ss.

I hereby certify that this instrument was filed for
record on the 23rd day of November, A.D. 1993, at 10:40 o'clock A.M., and duly recorded in... Return to
Book 497 Page 175
COUNTY of LEA
County Clerk: Cat Chappelle
Deputy: AS
Fees, \$ _____

RETURN ORIGINAL TO UNITED NEW MEXICO TRUST CO. PO BOX 5614 HOBBS NM
88241-5614

SPECIAL

WARRANTY DEED

DEED 497 PAGE 173

WILLIAM CECIL GRIMES MADDOX

, for consideration paid, grants to

RICE ENGINEERING CORPORATION

whose address is 122 W. TAYLOR, HOBBS, NEW MEXICO

the following described real estate in LEA County, New Mexico:

SURFACE TITLE ONLY:

AN UNDIVIDED ONE-THIRD INTEREST IN THE SE¹/₄ of the NW¹/₄ OF SECTION 29,
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NEW MEXICO BEING FULLY DESCRIBED AS FOLLOWS:

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OF WAY LINE OF WEST COUNTY ROAD BYPASS, ALSO A POINT
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FEET AND A CHORD BEARING AND DISTANCE OF N. 43°04'56"E.,
339.08 FEET) A LENGTH OF 340.87 FEET; THENCE N.53°15'10"E.,
79.40 FEET; THENCE EAST, 137.94 FEET; THENCE SOUTH,
295.16 FEET TO THE POINT OF BEGINNING. SAID TRACT
CONTAINS 2.068 ACRES MORE OR LESS.

with special warranty covenants.

WITNESS MY hand and seal this 6th day of

OCTOBER 19 93.

WILLIAM CECIL GRIMES MADDOX (Seal)

(Seal)

(Seal)

(Seal)

CALIFORNIA
STATE OF NEW MEXICO

ss.

ALL-PURPOSE ACKNOWLEDGMENT

NO 209

State of CALIFORNIA

County of LOS ANGELES

On OCT 6, 1993 before me, BERNARD PLOST

NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC"

personally appeared WILLIAM CECIL GRIMES MADDOX

NAME(S) OF SIGNER(S)

☐ personally known to me - OR - ☒ proved to me on the basis of satisfactory evidence
to be the person(s) whose name(s) is/are
subscribed to the within instrument and ac-
knowledged to me that he/she/they executed
the same in his/her/their authorized
capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s),
or the entity upon behalf of which the person(s)
acted, executed the instrument.



Witness my hand and official seal.

Bernard Plost

SIGNATURE OF NOTARY

CAPACITY CLAIMED BY SIGNER

☒ INDIVIDUAL(S)

☐ CORPORATE

OFFICER(S)

TITLE(S)

☐ PARTNER(S)

☐ ATTORNEY-IN-FACT

☐ TRUSTEE(S)

☐ SUBSCRIBING WITNESS

☐ GUARDIAN/CONSERVATOR

☐ OTHER:

SIGNER IS REPRESENTING:

NAME OF PERSON(S) OR ENTITY(IES)



E.O.
Pit



Former
Redwicks



RICE Operating Company

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

CERTIFIED MAIL

RETURN RECEIPT NO. Z 577 009 517

June 25, 1999

Mr. Wayne Price
State of NM Energy and Minerals Dept.
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Re: Closure Plans
Emergency Overflow Pit (Permit No. H-64)
Below-Ground Redwood Tank Excavation
SWD F-29 Facility
NW/4, Unit Letter F, Sec. 29, T18S, R38E
Lea County, NM

COPY

Dear Mr. Price:

Rice Operating Company (ROC) sincerely appreciates your consideration and recent response concerning the closure plans for the emergency overflow pit and the below-ground redwood tanks that are located at the F-29 Facility. As you know, the aboveground replacement tanks have been in service for some time and the large and deep excavation at the site is somewhat hazardous to the continuing operation of the facility. It is ROC's intention to work with NMOCD as timely as possible to close the immediate environmental issues here.

Specific areas of NMOCD concern detailed in your letter of May 22, 1999 are addressed immediately below (point by point) and are also appropriately incorporated into the revised closure plans for the facilities.

Emergency Overflow Pit (H-64)

In response to your request for additional information concerning the Emergency Overflow Pit (H-64), on June 3, 1999, ROC and Safety and Environmental Solutions, accompanied by Donna Williams, OCD Hobbs District Office, obtained additional bottom and side samples to further assess the site. (One composite sample of the bottom and sides was included in the original Closure Plan request.) Five-point composite samples were assembled from the bottom and sides and a two-point composite from the north end where it seemed to be a possible "hot spot."

Further excavation of the hot spot was conducted (with impacted soil staged on site awaiting proper disposal at an OCD approved facility) and the area was re-sampled.

Each sample was tested for TPH (8015M), BTEX (8260), and chlorides. The sampling and testing were conducted per approved EPA methods and procedures. The results of these samples are illustrated in Table 1 of the attached Revised Emergency Overflow Pit (H-64) Closure Plan. Composite sample points are illustrated on the F-29 site drawing included in the revised plan.

Below-Ground Redwood Tank Excavation

1. A topographic plot drawing of the site is attached. A vertical cross-section of the site is attached that denotes the results of chloride and TPH concentrations at the various sample sites. A calculated mass of in-situ contaminants is improbable to ascertain due to the various strata layers and their specific indeterminate densities. ROC is reluctant to stipulate any such mass quantity due to the obvious infallibility of delineation assumptions.
2. After in-depth discussions with various oil industry environmentalists and other ROC personnel, it has been decided to utilize a 10-12" packed-clay-layer barrier, instead of a polyethylene liner. The clay layer will be installed by a local contractor known to have previously installed clay layer barriers to the satisfaction of the NMOCD at similar sites closed in SE NM. The clay soil will be purchased from a local supplier.
3. To address lateral moisture migration under the clay-layer, Rice Operating Company proposes to expand the clay-layer coverage so lateral migration of moisture toward the impact area is further inhibited. The in-situ contaminate area will be over-capped an additional four to six feet to further prevent lateral migration/absorption of moisture.
4. The moisture-barrier clay-layer and the in-situ contaminants below it will be protected by placing the barrier ten-twelve feet underground at the level of the present excavation. This layer will not be disturbed by any normal surface activity practiced in the area. The presence and location of the clay layer will be defined on a permanent marker placed at the site. The landowner of record, Rice Operating Company, is fully aware of the future implications of disclosure, and will record the specifics with the property deed.
5. Rice Operating Company will commit to a two-year, quarterly sampling plan to monitor groundwater at this site and results will be reported annually to the NMOCD. The ground water will be tested for BTEX, Chlorides, and any other major cations and anions that the NMOCD and ROC deems reasonably prudent to monitor. The completed wellbore in the west part of the excavation will be extended to the surface, with a concrete pad poured around the well casing and a suitable protective locking device installed on the casing. The source of contamination is removed, the moisture-barrier will be in place to prevent any percolation of contaminants downward, and natural attenuation will be relied upon to remediate the vadose zone over the foreseeable future.

Upon approval of these revised closure plans, the plans will be executed for both the redwood tanks and the emergency overflow pit. Upon completion of the proposed work, the Pit Remediation and Closure forms for the redwood tanks and for the emergency overflow pit will be completed and submitted for the SWD F-29 Facility.

No further work will be performed at this site until the NMOCDC responds to this request. This facility is located on a well-traveled road and is highly visible. The excavation at the site has been open for a considerable length of time. As always, Rice Operating Company will appreciate timely consideration in this matter.

If you have any questions, please call.



Carolyn Doran Haynes
Operations Engineer

Enclosures: Revised Closure Plan Emergency Overflow Pit (Permit H-64) SWD F-29
Revised Closure Plan Below Ground Redwood Tanks SWD F-29
Pit Inventory Permit H-64

Cc: KH, LBG, file, Donna Williams
OCD Hobbs District
1625 N. French Drive
Hobbs, NM 88240

**Revised Closure Plan for Below Ground Redwood Tanks
Salt Water Disposal F-29 Facility
NW/4, Sec. 29, T18S, R38E
Lea County, New Mexico**

Determination of General Site Characteristics

A survey of the facility and surrounding area was conducted to determine the wellhead protection area and distance to the nearest surface water body.

No private domestic water source was identified within 200 feet of the tanks.

No water wells were identified within 200 feet of the tanks.

No surface bodies of water or ground water discharge sites (seeps, springs, marshes, or swamps) were identified within 1,000 feet of the tanks.

Depth to ground water at the site was determined to be 50 feet below ground surface based on boring data gathered at the site. A topographic plot drawing of the site is attached.

Soil Remediation Levels

The total ranking score and corresponding recommended soil remediation levels pursuant to Section II A of the Closure Guidelines are as follows:

CRITERIA	APPLICABLE STANDARD	SCORE
Depth to ground water	Less than 50 feet	20
Well head protection	Greater than 1,000 feet from water source Greater than 200 feet from private water source	0
Surface water bodies		0
TOTAL RANKING SCORE		20

ANALYTICAL PARAMETER	REMEDIATION LEVEL
Benzene	10 ppm*
BTEX (benzene, toluene, ethylbenzene, and xylenes)	50 ppm*
TPH (total petroleum hydrocarbon)	100 ppm**
* A field soil vapor headspace measurement of 100 ppm may be substituted for laboratory analysis of the benzene and BTEX concentration limits pursuant to Section II.B.1, Closure Guidelines	
** TPH Remediation Level = 100 ppm plus background concentration	

Target Chloride Level

Based on conversations with Mr. Roger Anderson and Mr. Wayne Price, Environmental Bureau, Oil Conservation Division, it is understood that a target level of 250 ppm (mg/l) has been suggested for delineation of chloride impact to the vadose zone. This level is not specifically stipulated in OCD guidelines or OCD regulations generated by due process as being a target level for remediation. It is also understood that 250 ppm chlorides is the maximum allowable chloride concentration for groundwater to comply with WQCC regulations.

Initial Assessment

After the replacement aboveground tank facility was put in service, the belowground redwood tanks were cleaned and disassembled in January 1999. The tank site was excavated an additional four-feet circumferentially and two-feet deeper. The excavation was visually inspected for evidence of hydrocarbon impact. A small area in the top (north) center end of the excavation exhibited moderate surface staining and was further excavated and the soil was staged on location then later transported to an OCD permitted facility for disposal.

Preliminary composite samples were collected from the bottom of the excavation (9' BGS) by F. Wesley Root on January 20, 1999 and were found to be:

SAMPLE LOCATION	TPH ppm	CHLORIDE ppm
Excavation Bottom East	202	1030
Excavation Bottom Middle	298	316
Excavation Bottom West	24	285

Further excavation was done in the east and middle of the hole, extracting an additional two feet from the bottom of the hole. Composite samples of the newly excavated bottom (at 11' BGS) were collected by F. Wesley Root on January 26, 1999 and analyzed. Excavation side samples were collected June 3, 1999 by Safety and Environmental solutions. The results are:

SAMPLE LOCATION	TPH ppm	CHLORIDE ppm
Excavation Bottom East	<10	791*
Excavation Bottom Middle	23.4	443*
Excavation Bottom West	24	285*
Excavation Side West	143	1084**
Excavation Side East	12	207**

TPH: EPA Method 8015M Chlorides: *EPA Method 325.3 **Standard methods 4500 Cl B

All excavated soil was staged on site, tested for TPH content. Contaminated soil was disposed at the NMOCD approved Sundance facility. Disposal manifests are attached.

Rice prepared a work plan to determine the vertical extent of chloride impact to the vadose zone at the redwood tank excavation. On March 6, 1999, the TPH and chloride concentration was delineated in the vadose zone that was directly beneath the redwood tanks. The Hobbs District I Office of OCD was notified 48 hours in advance, and Mr. Wayne Price visited the site to witness boring, sampling, and testing operations while in progress.

The ground water in this area was determined by this boring to be 50 feet from surface grade. Attached are the March 6, 1999, drilling logs with applicable subsurface lithology, analyticals, and remarks. The total boring depth was 36 feet for the East boring and 50 feet for the West boring (which was to groundwater.) Samples were taken at 5-foot intervals and were split into two or more portions.

One portion was field screened for soil vapor headspace using a HNU DL-101 photoionizer detector (PID) pursuant to Section II.B.1 of the closure guidelines and for chloride content using a field chloride test kit. Samples were submitted to Cardinal Laboratories for TPH analysis using EPA Method 418.1, for chloride concentrations using EPA Method 325.3 and for BTEX analysis using EPA Method 8260.

The chlorides and BTEX levels of the groundwater indicate that the groundwater has not been adversely impacted by the migration of salt water and chlorides are <250ppm at 10 feet above groundwater. The West area vadose zone does contain TPH (3660ppm), but it is located 10 feet above groundwater. The East area of the excavation tested <100ppm TPH and <250ppm Chlorides 20 feet above groundwater. Results are summarized below.

Table 1: Facility F-29 Analytical Results in PPM of Boring Sampling March 5, 1999

SAMPLE ID	DEPTH	OVM	CHLORIDE		TPH
			FIELD	LAB	
West BH B-1	40-41 feet	1125	440	206	3660
West BH B-1	45-46 feet	61	150	158	70.8
East BH B-2	30-31 feet	41	275	95	48.0
East BH B-2	35-36 feet	33	100	63	465*
East BH B-2	35.5 feet				117
Groundwater	50 feet		150	194	BTEX<10

TPH: EPA Method 418.1 Chlorides: EPA Method 325.3 BTEX: EPA SW 846 8260

*This value is believed to be an anomaly considering the OVM and chloride concentrations. A reserve sample at 35' was tested for confirmation and was found to be a more predictable level.

The boring in the West area of the excavation was cased as illustrated on the boring log and developed in order to test the groundwater. The East boring was filled/plugged with bentonite.

The attached plot drawings illustrate the location of sample sites. Also attached is a corresponding vertical cross-section view of measured in-situ contaminant concentrations.

Recommendation for Risk Assessment:

Considering groundwater at 50 feet BSG and the concentration of >100 ppm TPH and >250 ppm chlorides in the vadose zone:

- A. Although extremely unlikely, many consecutive years of abnormally high rainfall could conceivably afford the possibility of chlorides and TPH leaching into the groundwater during the next 10,000 years.
- B. Rice Operating proposes to eliminate the downward migration of moisture and therefore chlorides and TPH to groundwater by installing a 10-12" packed-clay-layer barrier over the entire excavated area, which is an overlap of the impacted area by 6-8 feet all around, and at the depth of 10-12 feet. The clay-layer will be installed by a local contractor known to have previously installed clay barriers to the satisfaction of the NMOCD at similar sites closed in SE NM. The clay will be purchased from a local supplier who has supplied much of the clay used in this area. NMOCD (Hobbs) will have 48 hours advance notice of the installation.
- C. To address lateral migration under the moisture barrier, the clay-layer coverage will be expanded to extend four to six feet beyond the impacted area. The over-cap of the impact area will further inhibit/prevent lateral migration/absorption of moisture. The clay-barrier will be covered and packed with a layer of rock-free soil, and then the excavation will be backfilled and packed with clean soil/caliche. The site will be re-graded and the berm will be rebuilt.
- D. The presence and location of the clay-layer will be defined on a permanent concrete marker placed at the site. The information will also be recorded on the property deed for future disclosure purposes. Landowner of record is Rice Operating Company.
- E. Rice Operating Company will commit to a two-year, quarterly sampling plan to monitor groundwater at this site and results will be reported annually to the NMOCD. The ground water will be tested for BTEX, Chlorides, and any other major cations and anions that the NMOCD and ROC mutually deem reasonably prudent to monitor. The completed wellbore in the west part of the excavation will be extended to the surface, appropriately grouted. A concrete pad will be poured around the well casing and a protective locking device will be installed on the casing. The source of contamination is removed, the moisture-barrier will prevent percolation of contaminants downward, and natural attenuation will be relied upon to remediate the vadose zone over the foreseeable future.

Attachments: Drilling Logs
Plot Drawings: Site Topo, Sampling Points, X-Section, Clay-Layer Spec.
Laboratory Results and Chains-of-Custody
Disposal Manifests

Revised Closure Plan for Emergency Overflow Pit (Permit No. H-64)
Salt Water Disposal Well No. F-29
Southwest 1/4, Section 29 of T18S R38E
Lea County, New Mexico

Determination of General Site Characteristics

A field survey of the pit and surrounding area was conducted to determine the wellhead protection area and distance to the nearest surface water body.

No private domestic water source was identified within 200 feet of the pit.

No water wells were identified within 200 feet of the pit.

No surface bodies of water or groundwater discharge sites (seeps, springs, marshes, or swamps) were identified within 1,000 feet of the pit.

Depth to ground water at the site was determined to be 50 feet below ground surface based on boring data gathered at the F-29 Facility site. A topographic plot of the site is attached.

Soil Remediation Levels

The total ranking score and corresponding recommended soil remediation levels pursuant to Section II A of the Closure Guidelines are as follows:

CRITERIA	APPLICABLE STANDARD	SCORE
Depth to ground water	Less than 50 feet	20
Well head protection	Greater than 1,000 feet from water source Greater than 200 feet from private water source	0
Surface water bodies		0
TOTAL RANKING SCORE		20

ANALYTICAL PARAMETER	REMEDIATION LEVEL
Benzene	10 ppm*
BTEX (benzene, toluene, ethylbenzene, and xylenes)	50 ppm*
TPH (total petroleum hydrocarbon)	100 ppm**
* A field soil vapor headspace measurement of 100 ppm may be substituted for laboratory analysis of the benzene and BTEX concentration limits pursuant to Section II.B.1, Closure Guidelines	
** TPH Remediation Level = 100 ppm plus background concentration	

Target Chloride level

Based on conversations with Mr. Roger Anderson and Mr. Wayne Price, Environmental Bureau, New Mexico conservation Division, it is understood that a target level of 250 ppm (mg/l) has been suggested for delineation of chloride impact to the vadose zone. This level is not specifically stipulated in OCD guidelines of OCD regulations generated by due process as being a target level of remediation. It is also understood that 250 ppm chlorides is the maximum allowable chloride concentration for groundwater to comply with WQCC standards.

Initial Assessment

The emergency pit was visually inspected for evidence of hydrocarbon impact. A small area in the north end of the pit exhibited moderate surface staining. The stained area was excavated and the soil was staged on location pending transport to an OCD permitted facility for disposal.

Three soil samples were collected to verify that the emergency pit meets the remediation levels. The samples were split into two portions. One portion was field screened for soil vapor headspace using a HNU DL-101 photoionizer detector (PID) pursuant to Section II.B.1 of the closure guidelines. The remaining sample portion was submitted to Cardinal Laboratories for TPH analysis using EPA Method 8015M. In addition, the samples were analyzed for chloride concentrations using EPA Method 325.3.

Field headspace readings and analytical results are presented in the following table.

SAMPLE ID	OVM	Chloride	TPH	BTEX
PBN	6 ppm	79 ppm	59.9 ppm	
PBS	3 ppm	79 ppm	30.7 ppm	
PBC	< 1 ppm	111 ppm	30.2 ppm	
PB		64 ppm	<10 ppm	<50 ppm
PS		430 ppm	<10 ppm	<50 ppm
NPS		303 ppm	< 50 ppm	<50 ppm
NPB		653 ppm	< 50 ppm	<50 ppm

PBN = composite sample from the bottom of the excavation in the north end of the pit (3.5 feet below pit bottom)
PBS = sample from the bottom of the trench in the south end of the pit (3.5 feet below pit bottom)
PBC = composite sample of the material forming the bottom and sides of the pit
PB = composite sample of the pit bottom (June 3, 1999) that had no visible hot spots
PS = composite sample of pit sides that had no visible hot spots (June 3, 1999)
NPS = composite sample of the north side of pit after a hot spot excavation (June 16, 1999)
NPB = composite sample of new bottom after excavation (June 16, 1999)

Chlorides: Standard methods 4500 Cl B; TPH: EPA 8015M; BTEX: EPA 8260

Summary

- Field headspace results measured levels well below 100 ppm and were substituted for BTEX analysis (for the January samples.) Soil TPH concentrations are below the remediation level of 100 ppm. Soil Chloride levels ranged from 79 to 653 ppm.
- The site assessment activities verify that the vertical and horizontal extent of impact has been delineated and that the remaining hydrocarbon concentrations meet the remediation standards for closure pursuant to the Unlined Surface Impoundment Closure Guidelines.

Conclusions and Recommendation for Risk Assessment

Based on the information presented, the pit is in compliance with OCD closure regulations of TPH < 100 ppm. Rice will initiate closure plan activities upon receipt of written OCD approval of this plan. Closure activities include:

- A. The source of contamination is removed. Remediation of contaminants remaining in the vadose zone will undergo natural attenuation over the next 10,000 years.
- B. Install a 10-12" compacted clay layer (clay purchased locally) on the bottom of the pit to prevent moisture induced downward or lateral migration of the remaining chlorides.
- C. Backfill on top of the clay with clean material purchased from a local caliche pit. The site will be re-graded and the berm will be rebuilt.
- D. Excavated material (approximately 40 loose cubic yards) has already been disposed at the Parabo Disposal Facility operated by Sundance Services, Inc. and the disposal manifests are attached.
- E. The presence and location of the clay-layer will be defined on a permanent concrete marker placed at the site. The information will also be recorded on the property deed for future disclosure purposes. Landowner of record is Rice Operating Company.

Attachments: Plot drawings: Site Topo, Sampling Points, X-Section, Clay-Layer Grade
Laboratory Results and Chains-of-Custody
Disposal Manifests

District I
P.O. Box 1980, Hobbs, NM 88241-1980
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
OPERATOR'S MONTHLY REPORT

Form C-141
Originated 2/13/97

Submit 2 copies to
Appropriate District
Office in accordance
with Rule 116 on
back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name Rice Operating Company	Contact F. Wesley Root
Address 122 West Taylor Hobbs, NM 88240	Telephone No. 505-393-9174
Facility Name SWD Well F-29	Facility Type SWD Disposal Facility

Surface Owner Rice Operating Company	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter F	Section 29	Township T18S	Range R38E	Feet from the	North/South line	Feet from the	East/West Line	County LEA
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NATURE OF RELEASE

Type of Release Production Water	Volume of Release Unknown	Volume Recovered 0 bbls
Source of Release Tanks and/or lines associated with facility	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 03/05/99 9:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mr. Wayne Price	
By Whom? F. Wesley Root	Date and Hour 03/05/99 10:30 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. (Attach Additional Sheets If Necessary)

N/A

Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets If Necessary)

Soil impacted from cumulative effects of minor leaks during operation of facility.
Removed potential source (below-grade tanks and associated piping). Excavated and transported 510 lcy's of impacted soil to OCD permitted disposal facility (Parabo) during removal operations.

Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If Necessary)

Area affected: Impacted soil limited to a surface area 40 feet by 70 feet (2,800 square feet). Vertical extent of impact was 35 feet below ground surface. Ground water was not impacted. Drilled soil borings on 3/5/99 to assess impact and provide information for development of corrective action plan. Filing closure plan with Wayne Price, OCD, Santa Fe.





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

Signature: <i>Carolyn Doran Haynes</i>	OIL CONSERVATION DIVISION	
Printed Name: Carolyn Doran Haynes	Approved by District Supervisor:	Expiration Date:
Title: Operations Engineer	Approval Date:	Attached <input type="checkbox"/>
Date: 6-24-99 Phone: 505-393-9174	Conditions of Approval:	

DRILLING LOG		Site Name / Location		B-1	3-5-99	C. Harrison	FWR
RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471		SWD Facility F-29 29-T183-R38E Lea Co. New Mexico		Well Depth: 60'	Boring Depth: 60'	Well Material: Sch 40 PVC	Construction: Grouted Bentonite plug
				Casing Length: 30'/40' GS	Boring Diameter: 6"	Casing Size: 2"	
				Screen Length: 20'	Drilling Method: Air Rotary	Slot Size: 0.02" FS	

DEPTH (Feet)	SUBSURFACE LITHOLOGY	Sample Type	OVM (ppm)	REMARKS	Boring
10	Bottom of Excavation at 10' BGS				
11	Gray- brown, fine-grained, calcareous sand (caliche)				
12					
13	Indurated light brown calcareous sand (caliche)				
14					
15	Light brown calcareous sand (caliche)	Split-Spoon	242	• Chloride – 800 ppm	
16					
17					
18					
19					
20		Split-Spoon	452	• Chloride – 800 ppm	
21					
22					
23					
24					
25					
26		Split-Spoon	456	• Chloride – 1700 ppm	
27					
28					
29	Indurated silicaous sandstone				
30					
31	Light red-brown calcareous sand (SM)	Split-Spoon	241	• Chloride – 700 ppm	
32					
33					
34					
35	Light gray limestone interbedded with sand stringers	Split-Spoon	549		
36					
37					
38					
39	Brown fine grain slightly calcareous sand			• Chloride – 440 ppm	
40		Split-Spoon	1125	♦ Chloride – 206 ppm ♦ TPH – 3660 ppm	
41					
42					
43	Sand interbedded w/ gray limestone stringers			• Chloride – 150 ppm	
44				♦ Chloride – 158 ppm ♦ TPH – 70.8 ppm	
45		Split-Spoon	61		
46					
47	Brown fine grain slightly calcareous sand (SM)				
48					
49					
50		Split-Spoon	4	DTW 50' @ 15:30	


- Field Test
- ♦ Laboratory Result

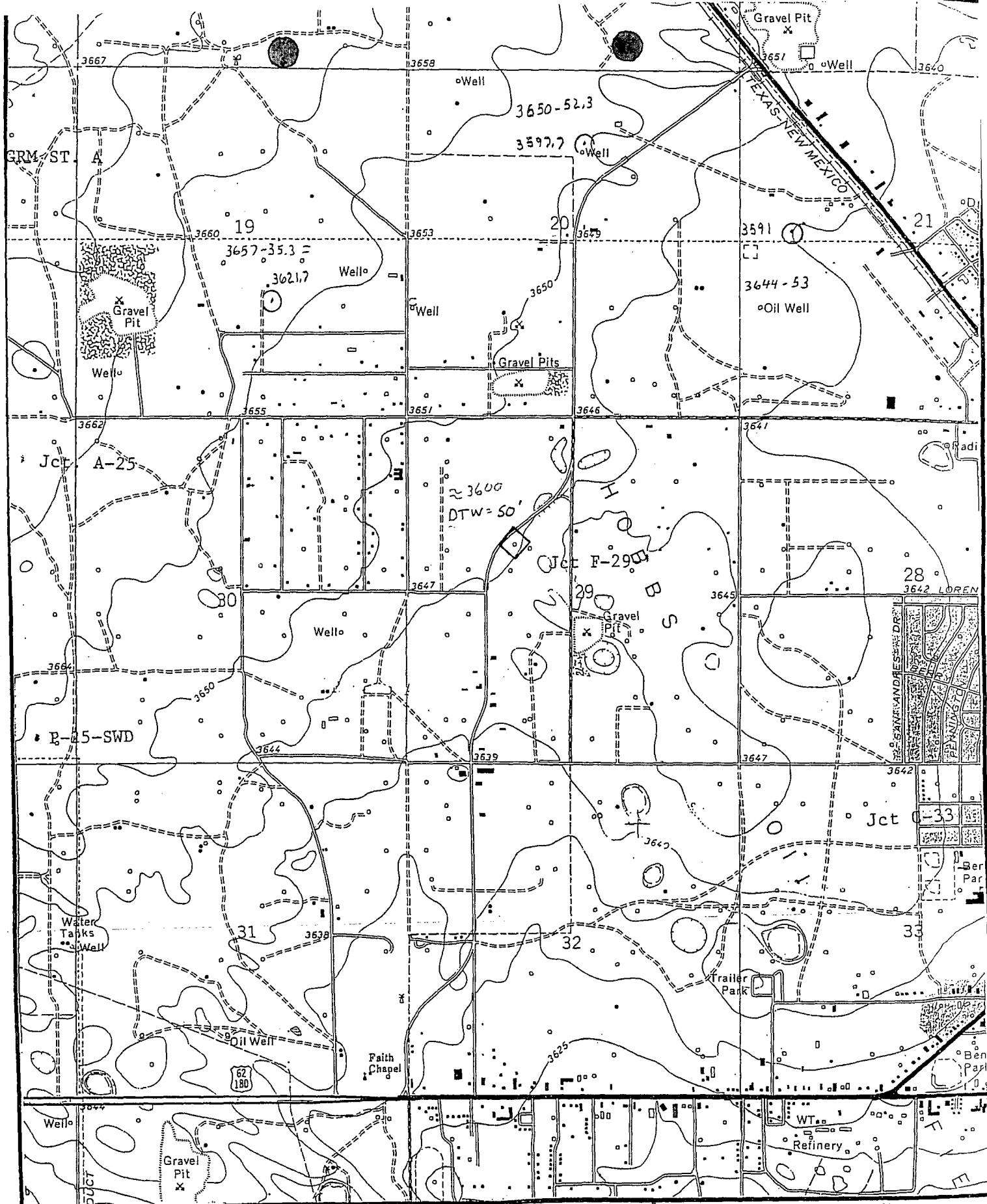
-  Cement Grout
-  Bentonite Seal
-  Sand Pack
-  0.02 Screen

DRILLING LOG RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471	Site Name / Location		B-2	3-5-99	C. Harrison	Logged by: FWR
	SWD Facility F-29		Well Depth:	Boring Depth:	Well Material:	Construction: Plugged with Bentonite
	29-T18S-R38E		Casing Length:	Boring Diameter:	Casing Size:	
	Lea Co. New Mexico		Screen Length:	Drilling Method:	Slot Size:	

DEPTH (Feet)	SUBSURFACE LITHOLOGY	Sample Type	OVM (ppm)	REMARKS	Boring
10	Bottom of Excavation at 10' BGS				
11	Light Gray silty caliche				
12					
13					
14					
15		Split-Spoon	443		
16	Light gray calcareous sand (caliche) Silty, fine grained				
17					
18					
19					
20		Split-Spoon	236		
21					
22					
23					
24					
25		Split-Spoon	371		
26					
27					
28					
29					
30		Split-Spoon	41	<ul style="list-style-type: none"> • Chloride – 275 ppm ♦ Chloride – 95 ppm ♦ TPH – 48 ppm 	
31	Light red-brown calcareous sand (SM) Fine grained.				
32					
33					
34					
35		Split-Spoon	33	<ul style="list-style-type: none"> • Chloride – 100 ppm ♦ Chloride – 63 ppm ♦ TPH – 117 ppm 	
36	Bottom of boring at 36' BGS				
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					

- Field Test
- ♦ Laboratory Result

 Bentonite Seal



Rice Operating Company

122 W. Taylor

Hobbs, NM 88240

Ph: (505) 393-9174 FAX 397-1471

Map Legend

- - Registered Well Location
- ◇ - Emergency Pit, SWD F-29

Hobbs West Topographic Map, Scale 1" = 2,000'

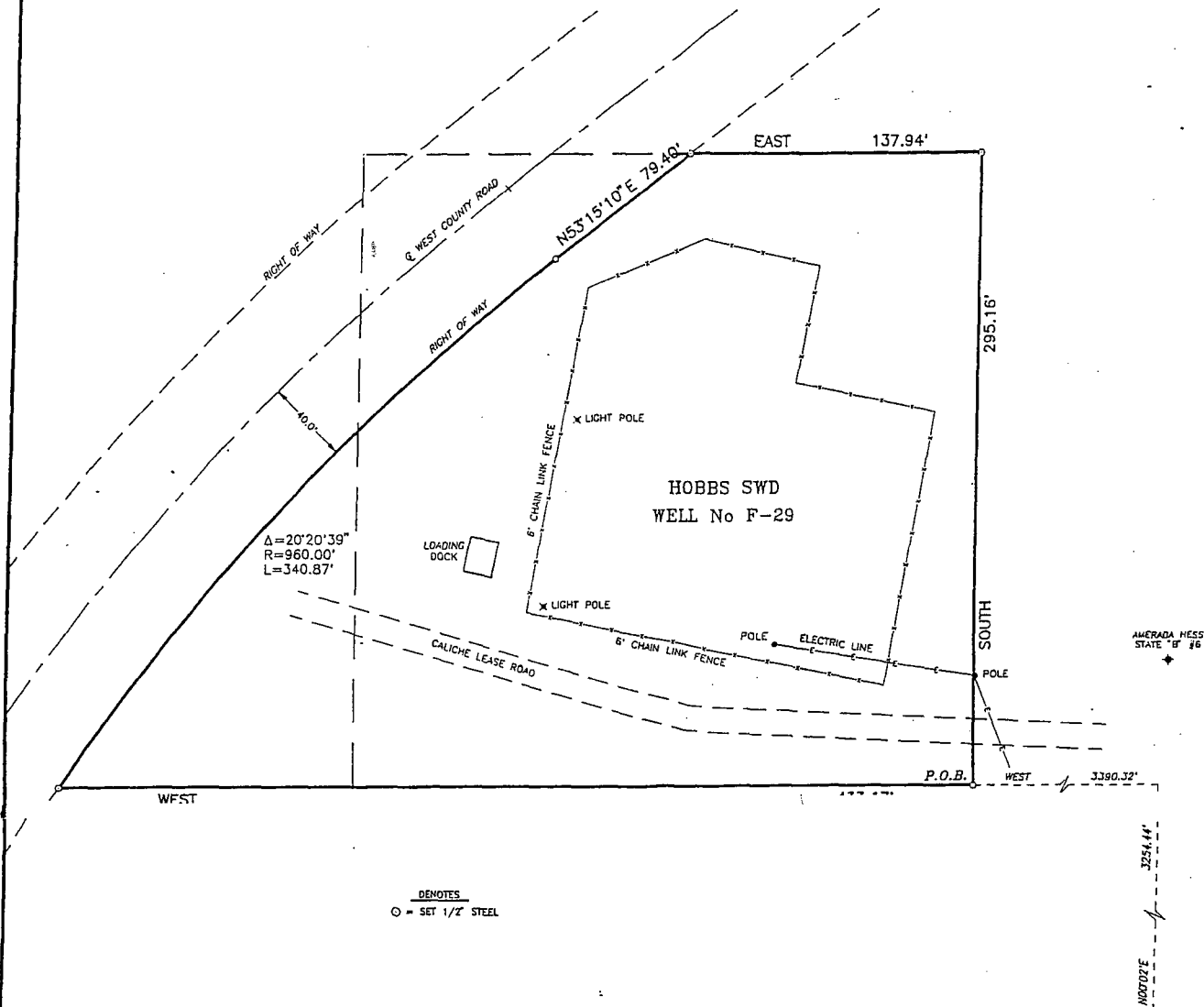
Emergency Pit

SWD Well F-29

Ltr F, Sec 29-T18S-R38E

Lea Co., NM

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO



DENOTES
○ = SET 1/2" STEEL

LEGAL DESCRIPTION

A TRACT OF LAND IN THE SE/4 OF THE NW/4 OF SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, BEING FULLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT BEING N.00°00'2"E, 3254.44 FEET WEST, 3390.32 FEET FROM SOUTHEAST CORNER OF SAID SECTION 29. THENCE WEST, 433.17 FEET TO A POINT ON THE EAST RIGHT OF WAY LINE OF WEST COUNTY ROAD BYPASS, ALSO A POINT ON A CURVE TO THE NORTHEAST. THENCE ALONG THIS CURVE (HAVING A CENTRAL ANGLE OF 20°20'39", A RADIUS OF 960.00 FEET AND A CHORD BEARING AND DISTANCE OF N.43°04'56"E, 339.08 FEET) A LENGTH OF 340.87 FEET; THENCE N.53°15'10"E, 79.40 FEET; THENCE EAST, 137.94 FEET; THENCE SOUTH, 295.16 FEET TO THE POINT OF BEGINNING. SAID TRACT CONTAINS 2.068 ACRES MORE LESS.

29/28
32/33

40 0 40 80 120 Feet

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



JOHN W. WEST, N.M. P.E. & P.S. No. 676
TEXAS P.L.S. No. 1138
RONALD J. EIDSON, N.M. L.S. No. 3239
TEXAS P.L.S. No. 1883
GARY L. JONES N.M. P.S. No. 7977

RICE ENGINEERING CORP.

A TRACT OF LAND LOCATED IN
SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

JOHN WEST ENGINEERING CO.
CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

Surveyed By: CASON	Drawn By: HOLMES	Last Rev. Date:	Drawing Number
Date Begin: 8-20-93	Date: 8-27-93	Disk: JH Ho 51	D-819-1
Date End: 8-20-93	Approved By:	Sheet 1 of 1 Sheets	
W.O. Number: 93-11-1558	File Name: DRAWINGS\RIE1558		

RICE OPERATING COMPANY

SWD F-29

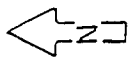
SEC 29 T18S R38E

ORIGINAL SITE

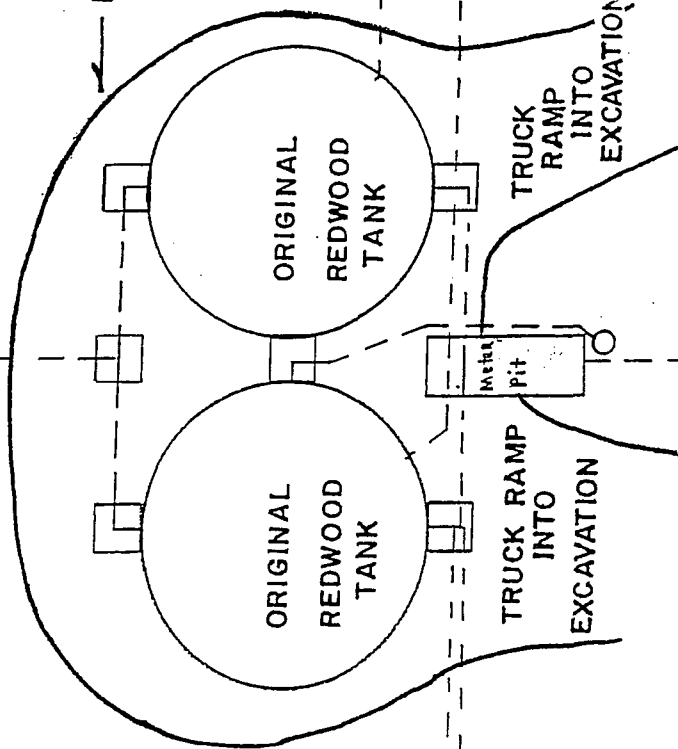
W/ PRESENT EXCAVATION

INCLUDED FOR

REFERENCE



PRESENT EXCAVATION



SWD Well F-29

RICE OPERATING COMPANY

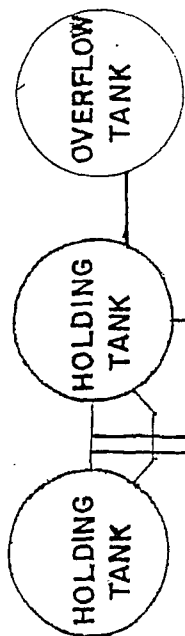
SWD F-29

SEC 29 T18S R37E

PRESENT SITE

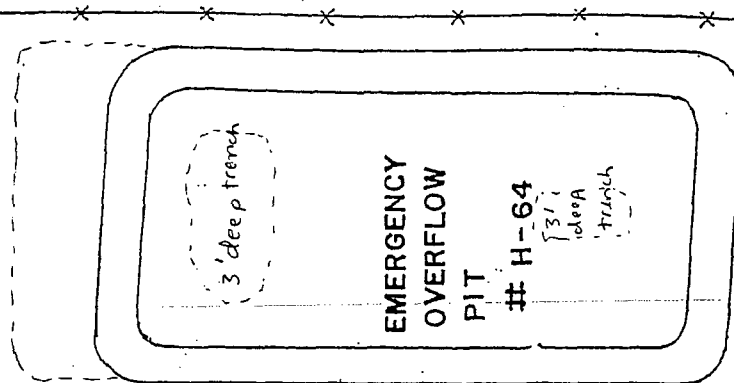


ABOVE GROUND TANK FACILITY



EXCAVATION
10-12' BSG

JUNE 11 EXCAVATION

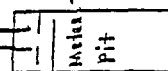


EMERGENCY
OVERFLOW
PIT

#H-64

3' deep
truck

TRUCK
RAMP

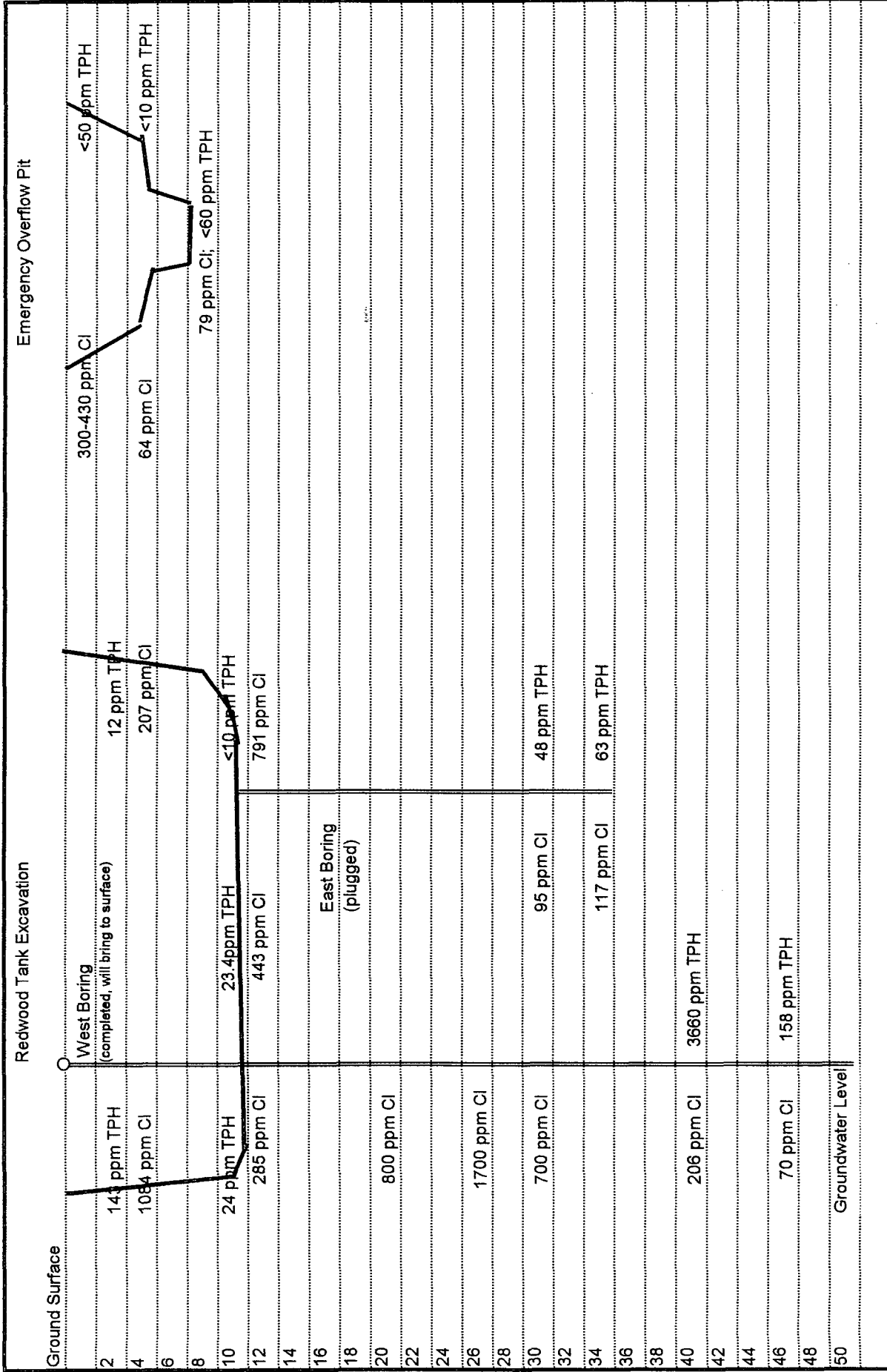


TRUCK
RAMP

SWD Well F-29



FENCE



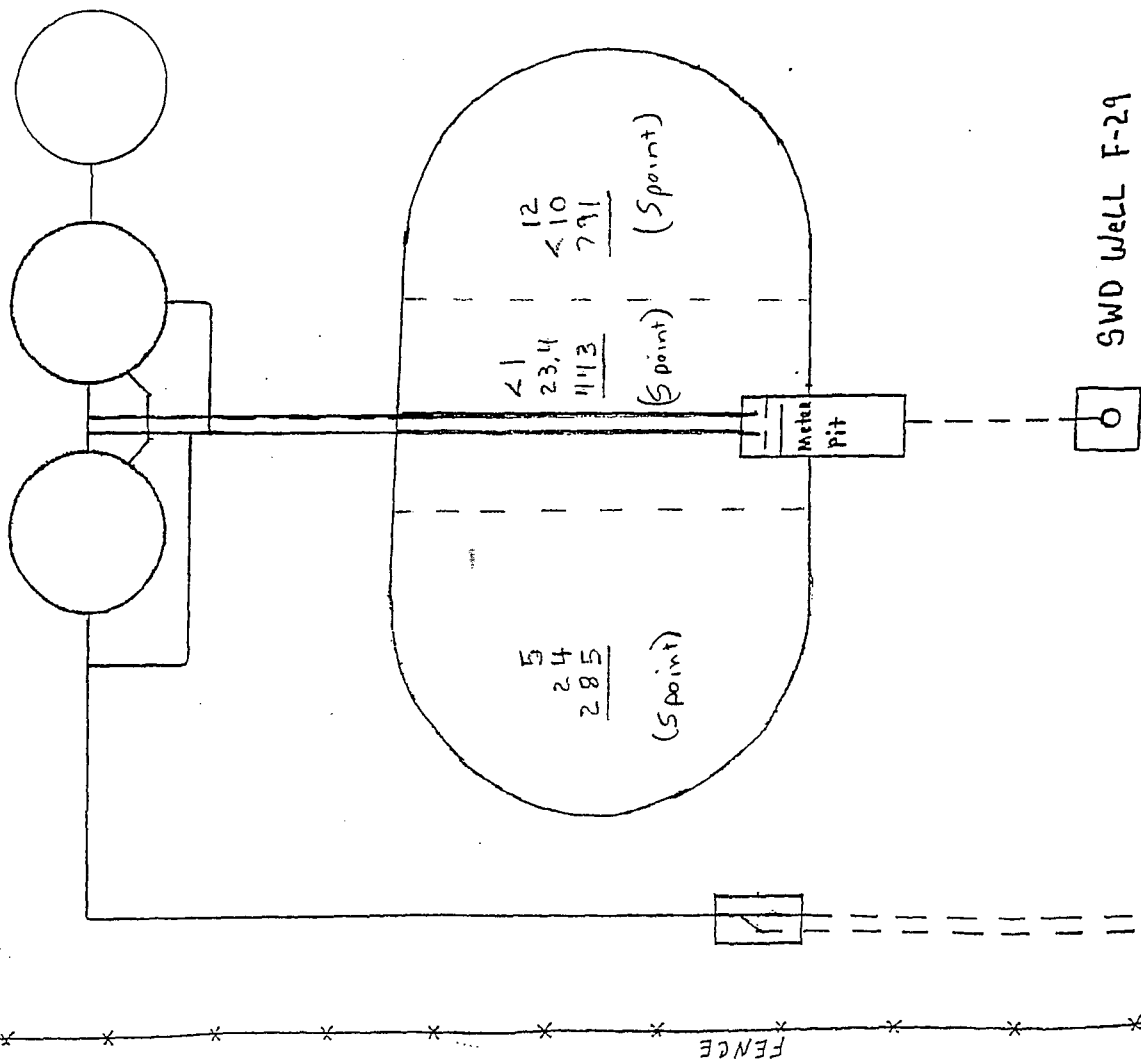
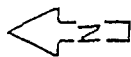
Rice Operating Company 122 West Taylor Hobbs, NM 88240 (505) 393-9174	Chloride and TPH Delineation	Redwood Tank Excavation and Emergency Overflow Pit SWD Well F-29 Unit Letter F, Sec 29-T18S-R38E Lea County, New Mexico
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SOIL ANALYTICAL RESULTS
 SWD Well F-29
 SE/4-NW/4-29-T18S-R38E
 Lea County, New Mexico

Parameter	Delivention Level
OVN	< 100 ppm
TPH	< 100 ppm
CHLORIDE	< 250 ppm

January 18, 99
 Sampling Event
 all samples are
 5-point composites

Scale
 1" = 20'

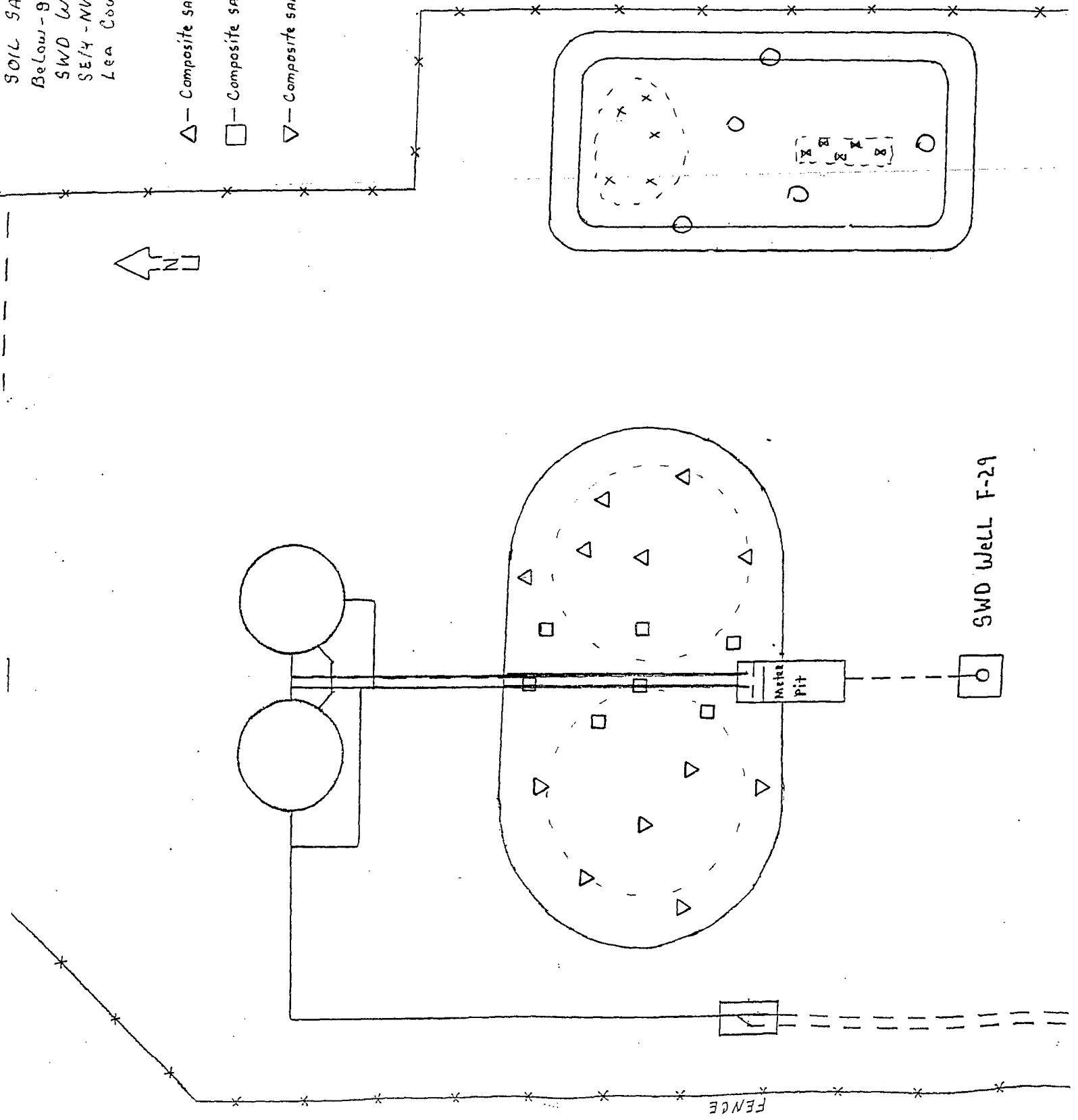


SOIL SAMPLING DIAGRAM
 Below-grade Tank Excavation/
 SWD Well F-29
 SE/4 - NW/4 - 29 - T18S-R38E
 Lea County, New Mexico

- △ - Composite sample east 1/3 excavation
- - Composite sample middle 1/3 excavation
- ▽ - Composite sample west 1/3 excavation

January 18, 1999
 Sampling Extent

Scale
 1" = 20'

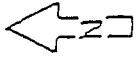


RICE OPERATING COMPANY

SWD F-29

SEC 29 T18S R37E

PRESENT SITE



ABOVE GROUND TANK FACILITY

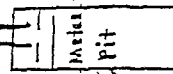


EXCAVATION

10-12' BSG

12 ppm TPH
20 ppm Cl⁻

143 ppm TPH
1084 ppm Cl⁻



TRUCK RAMP

TRUCK RAMP

SWD Well F-29

JUNE 3 EVENT

◇ EXCAVATION WEST SIDE

⊗ EXCAVATION EAST SIDE

X PIT SIDES

○ PIT BOTTOM

□ PIT SIDE HOT SPOT

5-pt composites
except pit side
hot spot

O = < 10 ppm TPH

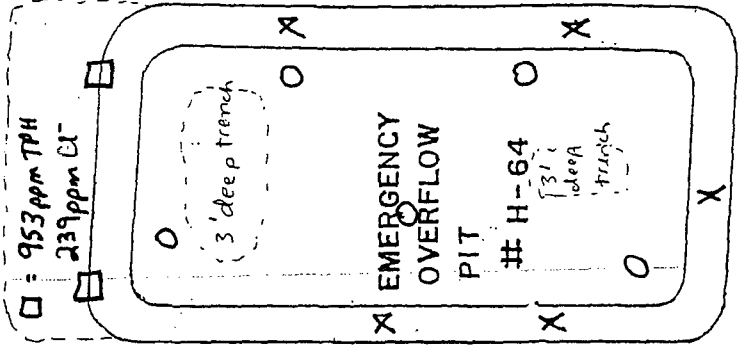
64 ppm Cl⁻

X = < 10 ppm TPH

430 ppm Cl⁻

JUNE 11 EXCAVATION

◇ = 953 ppm TPH
239 ppm Cl⁻

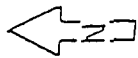


RICE OPERATING COMPANY

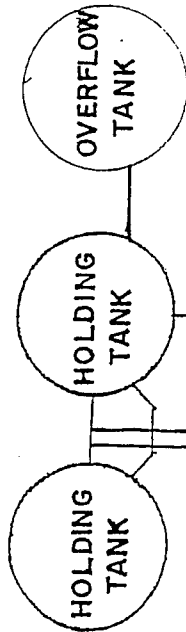
SWD F-29

SEC 29 T18S R37E

PRESENT SITE

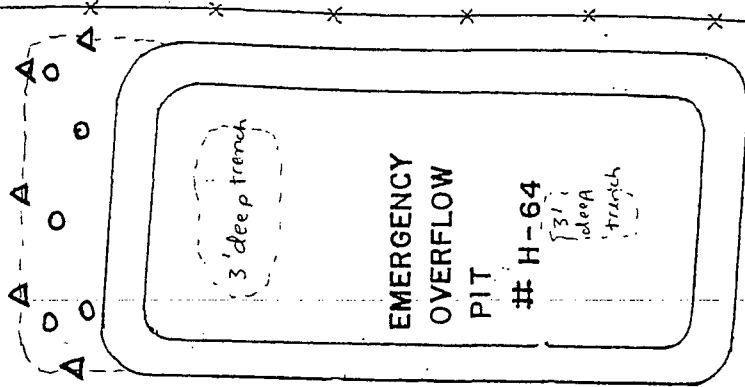


ABOVE GROUND TANK FACILITY



EXCAVATION
10-12' BSG

JUNE 11 EXCAVATION



June 16 EVENT

Δ - SIDE

O - Bottom

5-pt. Composites

Δ = < 50 ppm TPH

303 ppm Cl⁻

O = < 50 ppm TPH

653 ppm Cl⁻

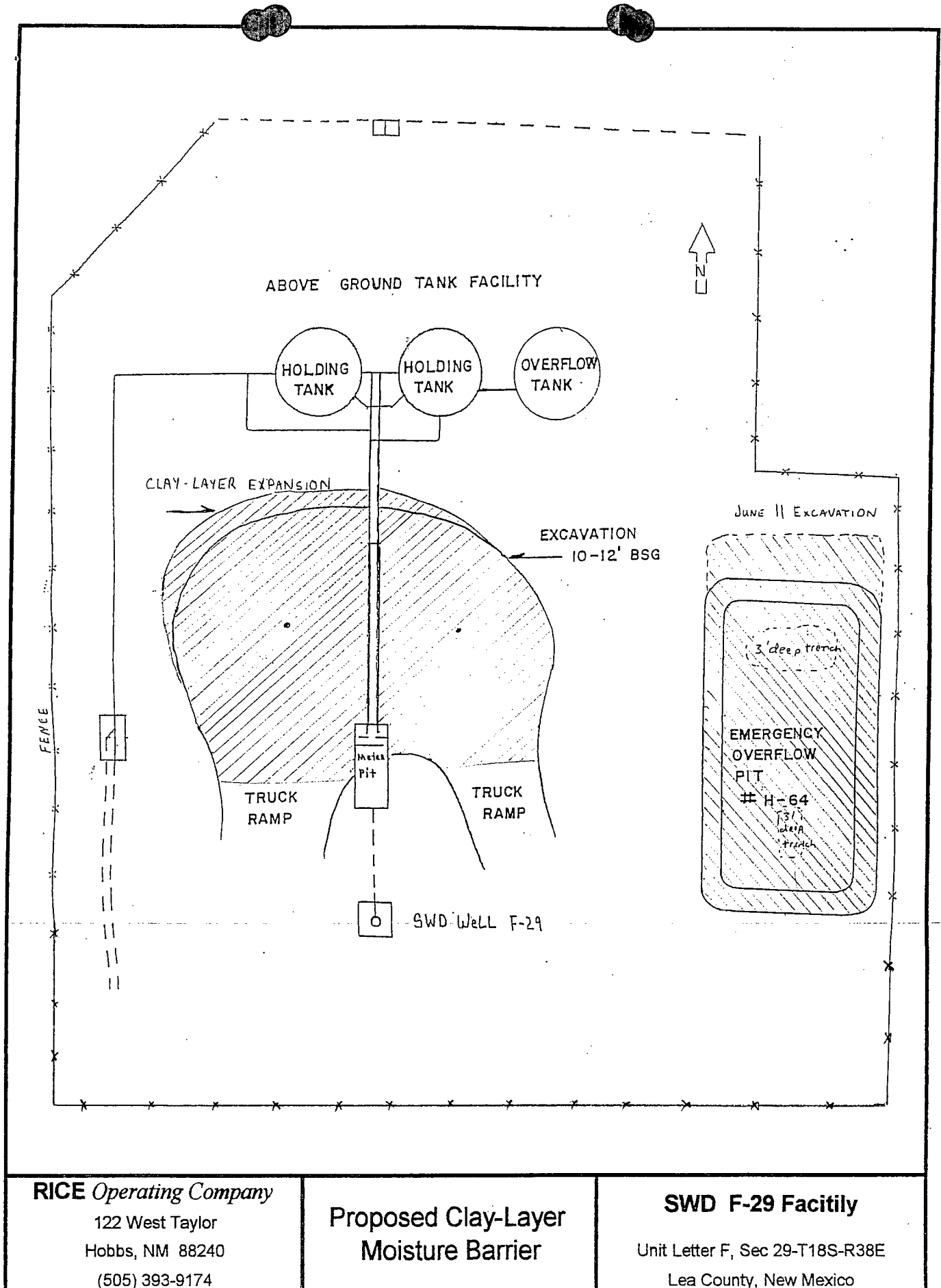
TRUCK RAMP

TRUCK RAMP

Metall Pit

SWD Well F-29

FENCE



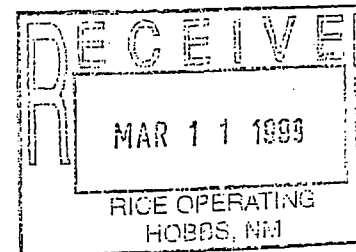
ANALYTICAL RESULTS FOR
 RICE OPERATING CO.
 ATTN: F. WESLEY ROOT
 122 W. TAYLOR
 HOBBS, NM 88240
 FAX TO: (505) 397-1471

Receiving Date: 03/08/99
 Reporting Date: 03/09/99
 Project Number: NOT GIVEN
 Project Name: SWD WELL F-29
 Project Location: 29-T195-R38E, LEA CO. NM

Sampling Date: 03/05/99
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE:		03/08/99	03/08/99
H4049-1	B-1 (40-41')	3660	206
H4949-2	B-1 (45-46')	70.8	158
H4049-3	B-2 (15-16')	10400	665
H4049-4	B-2 (30-31')	48.0	95
H4049-5	B-2 (35-36')	465	63
Quality Control		244	1335
True Value QC		240	1319
% Recovery		102	101
Relative Percent Difference		3.2	1.5
METHODS: EPA 600/4-79-02		418.1	325.3

*Analyses performed on 1:4 w:v aqueous extracts.



Burgess J. A. Castle
 Chemist

3/9/99
 Date

H4049-1.XLS

ANALYTICAL RESULTS FOR
 RICE OPERATING CO.
 ATTN: F.WESLEY ROOT
 122 W. TAYLOR
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 03/05/99
 Reporting Date: 03/06/99
 Project Owner: RICE OPERATING
 Project Name: SWD F-29
 Project Location: 29-T18S-R38E, LEA CO., NM

Sampling Date: 03/05/99
 Sample Type: GROUNDWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

LAB NO.	SAMPLE ID	CI ⁻ (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		03/05/99	03/05/99	03/05/99	03/05/99	03/05/99
H4046-1	B-1	194	<0.002	<0.002	<0.002	<0.006
Quality Control		1335	0.089	0.095	0.092	0.276
True Value QC		1319	0.100	0.100	0.100	0.300
% Recovery		101	88.9	94.6	91.5	92.0
Relative Percent Difference		1.5	3.5	4.6	4.0	5.1

METHODS: CI⁻ - Std. Methods 4500-CI⁻B; BTEX - EPA SW-846 8260

Bryan J. Blashé
 Chemist

3/16/99
 Date

H4046.XLS

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

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

Originated 6/27/97

Submit Original
Plus 1 Copy
to Santa Fe

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY

Address: 122 WEST TAYLOR

HOBBS NM 88240

Phone Number: (505) 393-9174

Previous Operator(s): Hobbs Salt Water Disposal System

Is the pit permitted: Yes ☐ No ☒

Unit Letter: F Section: 29 Township: 18S Range: 38E

County: Lea

Location Name: Rice Operating Company Salt Water Disposal F-29 Well

Number of wells to the pit: Truck terminal (varies)

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

Total daily volume (in barrels) to the pit: 1,000

Pit Type: 2 - below ground Redwood terminal tank

(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 test)

Pit age (years): 30

Is the pit lined ☒ or unlined ☐

Type of liner (None, Synthetic, Clay): Redwood tanks 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): 28" dia x 8" 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: 10/31/97

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 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
Phone Number: (505) 393-9174
Previous Operator(s): Hobbs Salt Water Disposal System
Is the pit permitted: Yes ☒ No ☐
Unit Letter: F Section: 29 Township: 18S Range: 38E
County: Lea County
Location Name: F-29 Salt Water Disposal System Well
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, BSW/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): 35
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): 63' X 29' X 3'

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

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

Santa Fe, New Mexico 87504-2088

Permit No. H-64
(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(T)

Operator Name: Rice Engineering Corporation

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

Lease or Facility Name SWD Well F-29 Location F 29 18S 38E
Ut. Ltr. Sec. Twp. Rg.

Size of pit or tank: 63'x29'x3' deep, approx. 1000 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 such as major well remedial work.

Normally kept empty.

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

Method: Vacuum truck

Time: Within 24 hrs. 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 July 25, 1990

Printed Name S. A. Haktanir Telephone No. 393-9174

FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected 8/2/90

Inspected by Edie W. Day

Approved by

Title

Date

AUG 1 1990



PHONE (915) 673-7001 • 2411 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4388


Receiving Date: 06/16/99
Reporting Date: 06/17/99
Project Owner: RICE
Project Name: F-29
Project Location: NOT GIVEN

Sampling Date: 06/16/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
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ANALYSIS DATE:	06/16/99	06/16/99	06/16/99	06/16/99	06/16/99	06/16/99
H4183-1 BOTTOM COMP.	<50	<50	<0.002	<0.002	<0.002	<0.006
H4183-2 SIDE COMP.	<50	<50	<0.002	<0.002	<0.002	<0.006
Quality Control	1557	1315	0.086	0.096	0.099	0.293
True Value QC	1600	1600	0.100	0.100	0.100	0.300
% Accuracy	97.3	82.2	86.1	96.2	99.0	97.8
Relative Percent Difference	2.5	5.3	1.6	5.5	4.6	4.1

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


Burgess J. A. Cooke, Ph. D.

6/17/99
Date

H4183BT.XLS

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4388

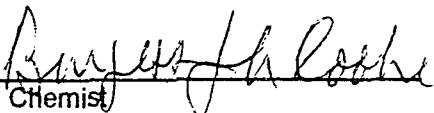
Receiving Date: 06/16/99
Reporting Date: 06/16/99
Project Owner: RICE
Project Name: F-29
Project Location: NOT GIVEN

Analysis Date: 06/16/99
Sampling Date: 06/16/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4183-1	BOTTOM COMPOSITE	653
H4183-2	SIDE COMPOSITE	303
Quality Control		1325
True Value QC		1319
% Accuracy		100.5
Relative Percent Difference		1.5

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

Note: Analysis performed on 1:4 w:v aqueous extracts.


Chemist

6/16/99
Date

H4183CL.XLS

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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

2017

Page 1 of 1

Company Name: SESI
Project Manager: B. Allen
Address: 702 E. Clinton #103
City: Houston, TX
State: TX
Phone #: 713-397-0510
Fax #: 713-397-0510
Project #: 103
Project Name: F-29
Project Location: F-29

Bill To: PO #:
Company: Same
Attn: Same
Address: Same
City: Same
State: Same
Zip: Same
Phone #: Same
Fax #: Same

Project Owner: Rice Up
Project Name: F-29
Project Location: F-29

LAB I.D. Sample I.D.

FOR LAB USE ONLY

LAB I.D.	Sample I.D.	# CONTAINERS	MATRIX					PRES.	SAMPLING
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		
114183-1	Bottom Composite	1	X						
114183-2	Side Composite	1	X						

DATE TIME
6/16/99 8:15am
6/16/99 9:30am

OTHER: ICE / COOL
OTHER: ACID
OTHER: SLUDGE
OTHER: OIL
OTHER: SOIL
OTHER: WASTEWATER
OTHER: GROUNDWATER

RECEIVED BY: Lab Staff
Date: 6/16/99
Time: 10:30am

DELIVERED BY: (Circle One)
Sample - UPS - Bus - Other: Sample

REMARKS: WTHWAS: Date
Chadler Chapman RAC
Donna Williams OCS 6-16-99

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Phone Result: ☐ Yes ☐ No
Fax Result: ☐ Yes ☐ No
Additional Fax #: ☐ Yes ☐ No

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



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

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

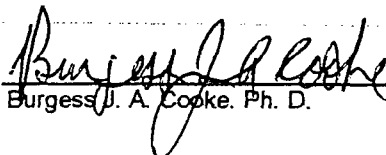
ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4380

Receiving Date: 06/03/99
Reporting Date: 06/07/99
Project Number: NOT GIVEN
Project Name: RO F-29
Project Location: NOT GIVEN

Sampling Date: 06/03/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		06/03/99	06/03/99	06/03/99	06/03/99	06/03/99	06/03/99
H4173-1	WEST SIDE EXC.	<10	143	<0.002	<0.002	<0.002	<0.006
H4173-2	EAST SIDE EXC.	<10	12	<0.002	<0.002	<0.002	<0.006
H4173-3	BOTTOM PIT	<10	<10	<0.002	<0.002	<0.002	<0.006
H4173-4	PIT SIDE 5 PT.	<10	<10	<0.002	<0.002	<0.002	<0.006
H4173-5	N. PIT SIDE	<10	953	<0.002	<0.002	<0.002	<0.006
Quality Control		794	866	0.094	0.104	0.100	0.297
True Value QC		800	800	0.100	0.100	0.100	0.600
% Accuracy		99.2	108	94.4	104	100	98.9
Relative Percent Difference		2.7	0.7	6.7	8.5	1.7	1.3

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


Burgess J. A. Cooke, Ph. D.


Date

H4173BT.XLS

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4380

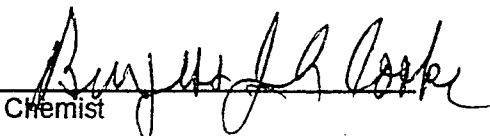
Receiving Date: 06/03/99
Reporting Date: 06/07/99
Project Number: NOT GIVEN
Project Name: RO F-29
Project Location: NOT GIVEN

Analysis Date: 06/03/99
Sampling Date: 06/03/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H4173-1	WEST SIDE EXC.	1084
H4173-2	EAST SIDE EXC.	207
H4173-3	BOTTOM PIT	64
H4173-4	PIT SIDE 5 PT.	430
H4173-5	N. PIT SIDE	239
Quality Control		1345
True Value QC		1319
% Accuracy		102
Relative Percent Difference		8.9

METHOD: Standard Methods	4500-ClB
--------------------------	----------

NOTE: Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H4173CL.XLS

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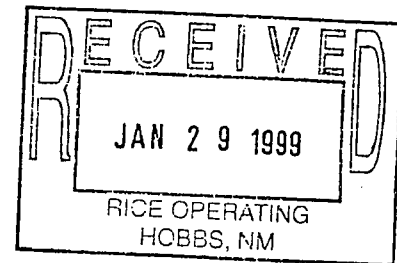
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F. WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 392-1471

Receiving Date: 01/26/99
Reporting Date: 01/27/99
Project Number: NOT GIVEN
Project Name: SWD WELL F-29
Project Location: NW/4-29-T19S-R38E, LEA CO. NM

Analysis Date: 01/27/99
Sampling Date: 01/26/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4005-1	EEB	791
H4005-2	MEB	443
Quality Control		1315
True Value QC		1319
% Recovery		100
Relative Percent Difference		4.4

METHOD: EPA 600/4-79-020,	325.3
---------------------------	-------



Amy Hill
Chemist

1/27/99
Date

H4005-1.XLS

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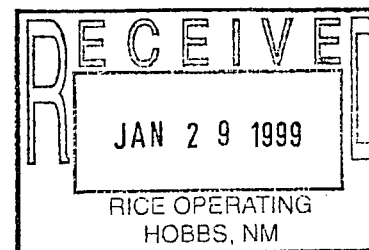
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F. WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 392-1471

Receiving Date: 01/26/99
Reporting Date: 01/27/99
Project Number: NOT GIVEN
Project Name: SWD WELL F-29
Project Location: NW/4-29-T19S-R38E, LEA CO. NM

Analysis Date: 01/26/99
Sampling Date: 01/26/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H4005-1	EEB	<10
H4005-2	MEB	23.4
Quality Control		2667
True Value QC		3000
% Recovery		88.9
Relative Percent Difference		1.7



METHOD: EPA SW-846 8015

Burgess J. A. Cook
Chemist

1/27/99
Date

H4005-2.XLS

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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 1 of 1

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ORDINAL LABORATORIES, INC.

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101 East Marland Hobbs NM 88240

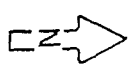
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 1 of 1

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SAMPLE DIAGRAM
 SWD Well F-29
 SE/4 - NW/4 - 29 - T18S - R38E
 Lea County, NM

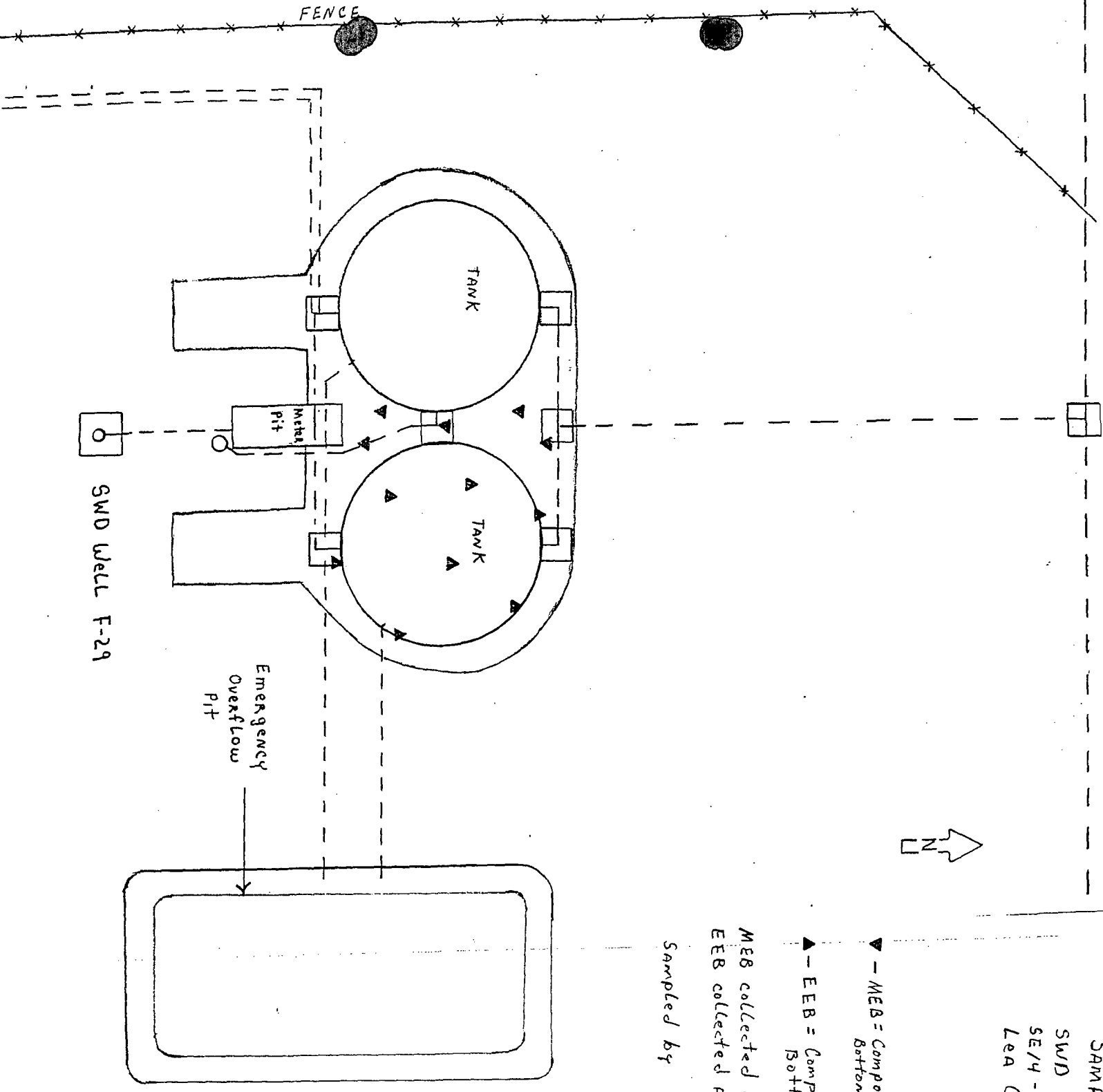


▼ - MEB = Composite Sample of Excavation
 Bottom @ 9.5'

▲ - EEB = Composite Sample of Excavation
 Bottom @ 10.5' - 11.5'

MEB collected at 1-26-99
 EEB collected at 1-26-99

Sampled by J. Winkley Root





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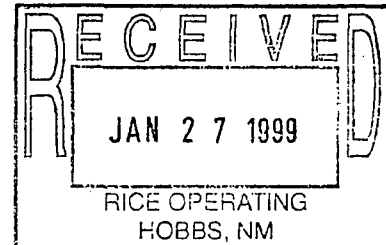
ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: F. WESLEY ROOT
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/20/99
Reporting Date: 01/21/99
Project Owner: RICE OPERATING
Project Name: SWD WELL F-29
Project Location: NW/4-29-T19S-R38E, LEA CO, NM

Analysis Date: 01/20/99
Sampling Date: 01/18/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER SAMPLE ID TPH
(mg/Kg)

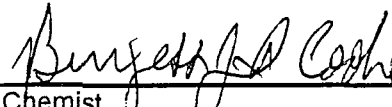
H4001-1	EBE	202*
H4001-2	EBM	298**
H4001-3	EBW	24
Quality Control		2667
True Value QC		3000
% Recovery		89
Relative Percent Difference		1.7



METHOD: EPA SW-846 8015

* Alkane Range: C12-C30

** Alkane Range: C11-C30


Chemist

1/21/99
Date

H4001-2.XLS

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: F. WESLEY ROOT
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/20/99

Reporting Date: 01/21/99

Project Owner: RICE OPERATING

Project Name: SWD WELL F-29

Project Location: NW/4-29-T19S-R38E, LEA CO, NM

Analysis Date: 01/20/99

Sampling Date: 01/18/99

Sample Type: SOIL

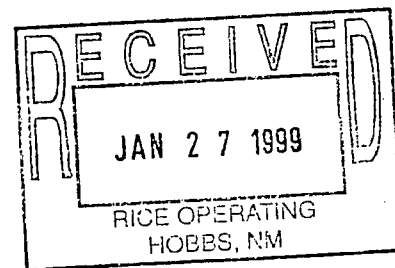
Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4001-1	EBE	1030
H4001-2	EBM	316
H4001-3	EBW	285
Quality Control		1315
True Value QC		1319
% Recovery		100
Relative Percent Difference		4.4

METHOD: EPA 600/4-79-020,	325.3
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Burgess J. A. Coche
Chemist

1/21/99
Date

H4001-1.XLS

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page ___ of ___

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RICE Operating Company
122 West Taylor
Hobbs, New Mexico 88240
Phone: 505-393-9174
Fax: 505-397-1471

ANALYSIS REPORT

FACILITY: Emergency Pit (Permit No. H-64)

DATE: January 20, 1999

SYSTEM: SWD Well F-29

LOCATION: SE/4-NW/4-29-T18S-R38E, Lea Co. NM

Sample ID	Date	Time	Headspace Reading (ppm)	Description
PBN	1-18-99	14:55	6	Composite of excavation bottom, north end of pit (3.5 feet below pit bottom)
PBS	1-18-99	15:00	3	Composite of trench bottom, south end of pit (3.5 feet below pit bottom)
PBC	1-18-99	15:05	<1	Composite of the material forming the bottom and sides of the pit

COMMENTS: _____

Organic vapor readings were obtained using the headspace procedure as described in Guidelines for Remediation of Leaks, Spills, and Releases, New Mexico Oil Conservation Division, August 13, 1993.

V. Wesley Root
Signature of Analyst



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

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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: F. WESLEY ROOT
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/20/99

Reporting Date: 01/21/99

Project Owner: RICE OPERATING

Project Name: SWD WELL F-29

Project Location: NW/4-29-T19S-R38E, LEA CO, NM

Analysis Date: 01/20/99

Sampling Date: 01/18/99

Sample Type: SOIL

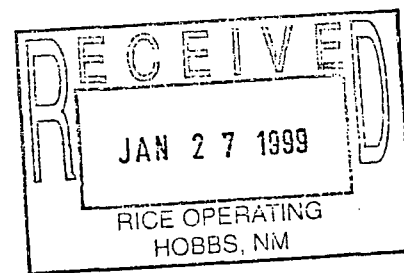
Sample Condition: COOL & INTACT

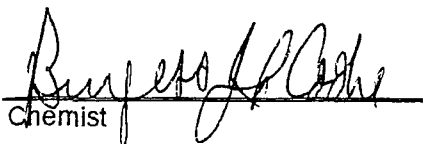
Sample Received By: AH

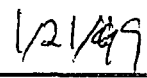
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4000-1	PBN	79
H4000-2	PBS	79
H4000-3	PBC	111
Quality Control		1315
True Value QC		1319
% Recovery		100
Relative Percent Difference		4.4

METHOD: EPA 600/4-79-020,	325.3
---------------------------	-------




Chemist


Date

H4000-1.XLS

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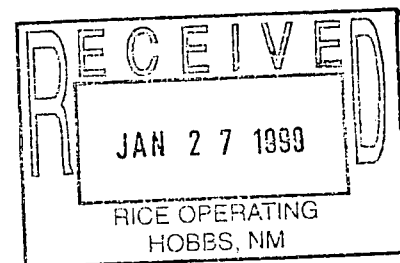
ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: F. WESLEY ROOT
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/20/99
Reporting Date: 01/21/99
Project Owner: RICE OPERATING
Project Name: SWD WELL F-29
Project Location: NW/4-29-T19S-R38E, LEA CO, NM

Analysis Date: 01/20/99
Sampling Date: 01/18/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER SAMPLE ID TPH
(mg/Kg)

H4000-1	PBN	59.9
H4000-2	PBS	30.7
H4000-3	PBC	30.2
Quality Control		2667
True Value QC		3000
% Recovery		89
Relative Percent Difference		1.7



METHOD: EPA SW-846 8015

Chemist

1/21/99
Date

H4000-2.XLS

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ARDINAL LABORATORIES, INC.

Page ____ of ____

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

No 18473

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO.:

#38

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content: _____

Description:

*oily**(10yds Backfill)*VOLUME OF MATERIAL ☐ BBLs. _____☐ YARD*12yds*☐ _____

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.

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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)

Bolton 3/1/99

FACILITY REPRESENTATIVE:

(SIGNATURE)

Gregory S. Hays

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 18474

LEASE OPERATOR/SHIPPER/COMPANY: RICE

LEASE NAME: F-29-SWD

TRANSPORTER COMPANY: RTE TRUCKING

TIME: AM/PM

DATE: 2-19-99 VEHICLE NO.: 1002

DRIVER NO.:

CHARGE TO: RICE

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.: 4

☐ Other Material:

☐ BS&W Content: _____

Description: oily

10 yard Backfill

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 AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

Harlan D. Harris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Donald Doshin
(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 18475

LEASE OPERATOR/SHIPPER/COMPANY: RICE

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R&E Trucking

TIME: _____ AM/PM

DATE: 2-19-99

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: RICE

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids 2

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content: _____

Description: city

20 yard Backfill

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.

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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 18479

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWD

TRANSPORTER COMPANY:

RPE Environmental

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO:

#38

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content: _____

Description:

*oily dirt**10yds Bachfill*VOLUME OF MATERIAL ☐ BBLS. _____ :☐ YARD *10* :☐ _____

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.

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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 18480

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29-JWD

TRANSPORTER COMPANY: R+E Trucking Co.

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: #4000 DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.: _____

☐ Other Material:

☐ BS&W Content: _____

Description: oily dirt

10yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD 10 : ☐ _____

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.

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DRIVER: X JOSE L. GAYTON

(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

No 18481

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO.:

1002

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*oily dirt**10yds Backfill*VOLUME OF MATERIAL ☐ BBLs. _____ :☐ YARD *10* :☐ _____

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:

Mark D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Kelly Roach
(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 18483

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R+E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 106 DRIVER NO.: _____CHARGE TO: RICE**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 7☐ Other Material:☐ BS&W Content: _____Description: oily dirt20 yds BackfillVOLUME 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.

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DRIVER: Lupe P.V.
(SIGNATURE)FACILITY REPRESENTATIVE: Randy L Robertson
(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 18485

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F 29 - SWD

TRANSPORTER COMPANY:

R-E Trucking

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO.:

#38

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*oil/dust**10 yds Backfill*VOLUME OF MATERIAL ☐ BBLs.:☐ YARD *10*:☐

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.

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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

№ 18486

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F29 SWD

TRANSPORTER COMPANY:

R & E Trucking

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO.:

#1000

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*oily slud**10yds Backfill*VOLUME OF MATERIAL ☐ BBLs.☐ YARD*10*☐

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.

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DRIVER:

JOSE L. GAYTAN

(SIGNATURE)

FACILITY REPRESENTATIVE:

Kelly Roach

(SIGNATURE)

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

No 18487

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29-SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE:

2-19-89

VEHICLE NO.:

1002

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:*#10*☐ Other Material:☐ BS&W Content: _____

Description:

*Hydrid**10yds Backfill*VOLUME OF MATERIAL ☐ BBLs. _____ :☐ YARD *10* :☐ _____

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.

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DRIVER:

Horton D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Kelly Roach
(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 18489

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R+E Trucking

TIME: AM/PM

DATE: 2-19-99 VEHICLE NO.: 106 DRIVER NO.:CHARGE TO: Rice**TYPE OF MATERIAL**

- ☐ Production Water
☐ Tank Bottoms
☐ Other Material:

- ☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____

- ☐ Completion Fluids
☐ C-117 No.: 71

Description: oily dirt20 yards BackfillVOLUME 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.

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DRIVER: Lupa L.V.
(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

No 18490

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE: 2-19-99VEHICLE NO.: 1000

DRIVER NO.:

CHARGE TO:

Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 10☐ Other Material:☐ BS&W Content: _____Description: oily dirt10 yards BackfillVOLUME OF MATERIAL ☐ BBLs. _____ :☒ YARD 10 :☐ _____

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.

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DRIVER:

(SIGNATURE)

JOSE L. GAYTAN

FACILITY REPRESENTATIVE:

(SIGNATURE)

Randy L Robertson

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 18492

LEASE OPERATOR/SHIPPER/COMPANY: RICELEASE NAME: F-29 SWDTRANSPORTER COMPANY: RJE TRUCKING

TIME: AM/PM

DATE: 2-19-99 VEHICLE NO.: 38

DRIVER NO.:

CHARGE TO: RICE**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☒ AC-117 No.: 1013☐ Other Material:☐ BS&W Content: _____

Description: _____

10 yard BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD 10 : ☐ _____

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.

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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 18493

LEASE OPERATOR/SHIPPER/COMPANY: RICELEASE NAME: F-29 SWDTRANSPORTER COMPANY: RFE Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 1002 DRIVER NO.: _____CHARGE TO: RICE**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☒ C-117 No.: 14☐ Other Material:☐ BS&W Content: _____Description: oily dirt10 yard BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD 10 : ☐ _____

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.

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DRIVER:

Robert D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Donald Doshier
(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 18494

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R&E Trucking

TIME: _____ AM/PM

DATE: 2-19-99VEHICLE NO.: 1000

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 15☐ Other Material:☐ BS&W Content: _____Description: city Dirt10 yard Back fillVOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD 10 : ☐ _____

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.

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DRIVER: JOSE L. GAYTAN

(SIGNATURE)

FACILITY REPRESENTATIVE: Donald R. Daskin

(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

№ 18495

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R+E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 106 DRIVER NO.: _____CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water
☐ Tank Bottoms
☐ Other Material:☐ Drilling Fluids
☐ Contaminated soil
☐ BS&W Content: _____☐ Completion Fluids
☐ C-117 No.: 16Description: oily dirt20 yards BackfillVOLUME 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.

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DRIVER: Lupe L. V.
(SIGNATURE)FACILITY REPRESENTATIVE: Donald R. Doshier
(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 18496

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R-E Trucking

TIME: AM/PM

DATE: 2-19-99 VEHICLE NO.: 38

DRIVER NO.: ..

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: 17☐ Other Material:☐ BS&W Content: _____Description: oil & dirt10 yards backfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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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 18498

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29-SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 1000

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: 18☐ Other Material:☐ BS&W Content: _____Description: oily dirt10 yds BackfillVOLUME OF MATERIAL ☐ BBLS. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: JOSE L. GAYTAN

(SIGNATURE)

FACILITY REPRESENTATIVE: Randy L Robertson

(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 18499

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-19-99

VEHICLE NO.: 38

DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.: 19

☐ Other Material:

☐ BS&W Content: _____

Description: city dirt

10 yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : 4 YARD 10 : ☐ _____

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 18500

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-19-99VEHICLE NO.: 106

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: 20☐ Other Material:☐ BS&W Content: _____Description: dry dirt20 yds BuckfillVOLUME 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.

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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) 394-2511N^o 18506LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 ~~SWD~~ SWDTRANSPORTER COMPANY: R.E. Trucking

TIME: _____ AM/PM

DATE: 2-22-99VEHICLE NO.: 38

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: #22☐ Other Material:☐ BS&W Content: _____Description: oily dirt10yds back fillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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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

№ 18507

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R.E. Trucking

TIME: _____ AM/PM

DATE: 2-22-88VEHICLE NO.: 1002

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: #23☐ Other Material:☐ BS&W Content: _____Description: oily dirt10 yds back fillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: Harlan D. Farris

(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

No 18508

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R.E. Trucking

TIME: AM/PM

DATE: 2-22-99 VEHICLE NO.: 106

DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.: #21

☐ Other Material:

☐ BS&W Content: _____

Description: oily dirt

20 yds backfill

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.

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DRIVER: Lupe L V

(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

No 18509

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R.E. Trucking

TIME: AM/PM

DATE: 2-22-99 VEHICLE NO.: 1000

DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.: #24

☐ Other Material:

☐ BS&W Content: _____

Description: city dirt

10 yds backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: Luis L. Mendez
(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

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

No 18511

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SudTRANSPORTER COMPANY: R. E. Trucking

TIME: AM/PM

DATE: 8-22-99

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 25☐ Other Material:☐ BS&W Content: _____Description: oily Dirt10 yds BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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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 18513

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R-E Trucking

TIME: AM/PM

DATE: 2-22-99 VEHICLE NO.: 1000

DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.: 22

☐ Other Material:

☐ BS&W Content: _____

Description: oily Dirt

10 yards Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER:

(SIGNATURE)

Luis L. Mindez

FACILITY REPRESENTATIVE:

(SIGNATURE)

Kelly Roach

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F. 29 SW D

TRANSPORTER COMPANY: R.E. Trucking

TIME: " " AM/PM

DATE: 2-22-99 VEHICLE NO.: 1002

DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids 28

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.: 28

☐ Other Material:

☐ BS&W Content: _____

Description: Dily Dirt

10 yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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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 18516

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R.E. Environmental

TIME: _____ AM/PM

DATE: 2-22-99

VEHICLE NO.: #83

DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☒ C-117 No. #29

☐ Other Material:

☐ BS&W Content: _____

Description: Oil/dirt

10 yards Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

Sundance Services, Inc.

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

No 18517

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R. E. Trucking

TIME: AM/PM

DATE: 2-22-99 VEHICLE NO.: 1000

DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids # 30

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content: _____

Description: oily dirt

10 yard Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: Luis L M
(SIGNATURE)

FACILITY REPRESENTATIVE: Steve Stiff
(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 18519

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWP

TRANSPORTER COMPANY:

R.E. Trucking

TIME:

AM/PM

DATE: 2-22-99

VEHICLE NO.: 106

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☒ C-117 No.: 26☐ Other Material:☐ BS&W Content: _____

Description: Oily Dirt

20 yds Backfill

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.

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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 18521

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: RE Trucking

TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: 1002

DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.: 32

☐ Other Material:

☐ BS&W Content: _____

Description: oily dirt

10 yards Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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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 18523

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: 106 DRIVER NO.:CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids: 31☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: _____☐ Other Material:☐ BS&W Content: _____Description: oily dirt20 yards BackfillVOLUME 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.

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DRIVER: Lupe L. V.
(SIGNATURE)FACILITY REPRESENTATIVE: Donald Daskin
(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 18524

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: 1000

DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.: 33

☐ Other Material:

☐ BS&W Content: _____

Description: oily dirt

10 yards Backfill

VOLUME OF MATERIAL [] BBLs. _____ : [4 YARD 10 : [] _____

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DRIVER: Luis J. Mendez
(SIGNATURE)

FACILITY REPRESENTATIVE: Randy L. Robertson
(SIGNATURE)



Sundance Services, Inc.

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

Nº 18525

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29-SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE:

2-22-99

VEHICLE NO.:

#34

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content:

Description:

oily dirt

10yds Backfill

VOLUME OF MATERIAL ☐ BBLs.

☐ YARD

10

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.

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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 18526

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29-SWD

TRANSPORTER COMPANY:

RSE

TIME:

AM/PM

DATE:

9-22-99

VEHICLE NO.:

#1002

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content: _____

Description:

oily dirt

10 yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ :

☐ YARD

10 yds

☐ _____

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.

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DRIVER:

Harlan D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Billy Road
(SIGNATURE)

Sundance Services, Inc.

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

N2 18527

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: RE-trucking

TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: #106

DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☒ C-117 No.: #36

☐ Other Material:

☐ BS&W Content: _____

Description: oil/dirt

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

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DRIVER: [Signature]
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

Sundance Services, Inc.

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

N^o 18528

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 S.S.D.

TRANSPORTER COMPANY: RE. Trucking

TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: #1000 DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

- ☐ Production Water
☐ Tank Bottoms
☐ Other Material:

- ☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____

- ☐ Completion Fluids
☒ C-117 No.: 37

Description: Oil/dirt

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

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DRIVER: Luis L M
(SIGNATURE)

FACILITY REPRESENTATIVE: Heather Hiff
(SIGNATURE)

Sundance Services, Inc.

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

No 18529

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29-SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE:

2-22-99

VEHICLE NO.:

#1002

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content:

Description:

oily dirt

10 yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ :

☐ YARD 10 :

☐ _____

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.

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DRIVER:

Harland D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Henry S. Ziff
(SIGNATURE)

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

No 18530

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29-SWDTRANSPORTER COMPANY: R.E. Environmental

TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: #38

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☒ C-117 No.: #40☐ Other Material:☐ BS&W Content: _____Description: oil/gelant10 yds BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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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 18531

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME: F-25-SWD

TRANSPORTER COMPANY:

R&F Environmental

TIME:

AM/PM

DATE: 2-22-94

VEHICLE NO.: 1000

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☒ C-117 No.: 40

☐ Other Material:

☐ BS&W Content:

Description:

oil/dirt

VOLUME OF MATERIAL ☐ BBLs. _____ :

☒ YARD 10 :

☐ _____

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DRIVER:

Louis J. M.
(SIGNATURE)

FACILITY REPRESENTATIVE:

Henry S. Triffin
(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 18532

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *F-25-SWD*

TRANSPORTER COMPANY: *Rt E Environmental*

TIME: AM/PM

DATE: *2-22-99*

VEHICLE NO.: *#106*

DRIVER NO.:

CHARGE TO: *Rice*

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☒ C-117 No. *441*

☐ Other Material:

☐ BS&W Content: _____

Description: *oil/dirt*

VOLUME OF MATERIAL: ☐ BBLs. _____ : ☒ YARD *20* : ☐ _____

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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 18533

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R+E Environmental

TIME: AM/PM

DATE: 2-22-99

VEHICLE NO.: 1002

DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

- ☐ Production Water
☐ Tank Bottoms
☐ Other Material:

- ☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____

- ☐ Completion Fluids
☒ C-117 No.: #12

Description: oil/dirt

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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DRIVER: Harlan D. Lewis

(SIGNATURE)

FACILITY REPRESENTATIVE: Steven S. Heifetz

(SIGNATURE)



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

September 2, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z 357 870 141

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

Re: Closure Plans
Below-Ground Redwood Tank Excavation
Emergency Overflow Pit (Permit No. H-64)
SWD F-29
SE/4 NW/4 Sec 29-Ts18s-R38e
Lea County, NM

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Rice Operating Company's (ROC) letter dated June 25, 1999 and disposal manifest dated concerning the above captioned facility. ROC is requesting approval to modify its original plan for the Below-Ground Redwood Tank Excavation and Emergency Pit by utilizing a 10-12 inch thick packed-clay-layer barrier instead of a polyethylene liner, over-capp the horizontal extent of the contaminated area by an additional four to six feet to prevent lateral/absorption of moisture, deed record, and commit to a two-year quarterly sampling program and backfill the excavated areas.

The NMOCD approves of ROC's closure work plan with the following additional conditions:

1. ROC shall demonstrate that the Clay layer(s) compaction meets or exceeds 95% of a Proctor Test ASTM-D-698 and the permeability (hydraulic conductivity) is equal or less than 1×10^{-7} cm/sec.
2. Supply copy of deed recording and information requested in item #1 above in closure report.

Please be advised that NMOCD approval of this site does not relieve ROC of liability should their operations fail to adequately investigate, remediate and/or contain contamination that pose 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

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space ~~does~~ not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

WP

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

RICE OPERATING CO.
122 WEST TAYLOR
HOBBS, NM 88240
ATT: CAROLYN HAYNES

4a. Article Number

Z 357 870 141

4b. Service Type

- | | |
|---|---|
| <input checked="" type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

9/1/89

5. Received By: (Print Name)

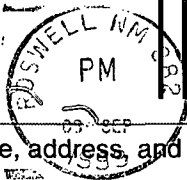
JO ANN NOLAN

6. Signature: (Addressee or Agent)

X [Signature]

8. Addressee's Address (Only if requested and fee is paid)

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

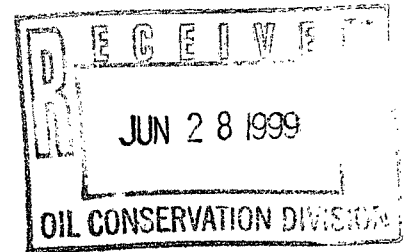
W.P.
F-29

**Environmental Bureau
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87503**



RICE *Operating Company*

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



CERTIFIED MAIL
RETURN RECEIPT NO. Z 577 009 517

June 25, 1999

Mr. Wayne Price
State of NM Energy and Minerals Dept.
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Re: Closure Plans
Emergency Overflow Pit (Permit No. H-64)
Below-Ground Redwood Tank Excavation
SWD F-29 Facility
NW/4, Unit Letter F, Sec. 29, T18S, R38E
Lea County, NM

Dear Mr. Price:

Rice Operating Company (ROC) sincerely appreciates your consideration and recent response concerning the closure plans for the emergency overflow pit and the below-ground redwood tanks that are located at the F-29 Facility. As you know, the aboveground replacement tanks have been in service for some time and the large and deep excavation at the site is somewhat hazardous to the continuing operation of the facility. It is ROC's intention to work with NMOCD as timely as possible to close the immediate environmental issues here.

Specific areas of NMOCD concern detailed in your letter of May 22, 1999 are addressed immediately below (point by point) and are also appropriately incorporated into the revised closure plans for the facilities.

Emergency Overflow Pit (H-64)

In response to your request for additional information concerning the Emergency Overflow Pit (H-64), on June 3, 1999, ROC and Safety and Environmental Solutions, accompanied by Donna Williams, OCD Hobbs District Office, obtained additional bottom and side samples to further assess the site. (One composite sample of the bottom and sides was included in the original Closure Plan request.) Five-point composite samples were assembled from the bottom and sides and a two-point composite from the north end where it seemed to be a possible "hot spot."

Further excavation of the hot spot was conducted (with impacted soil staged on site awaiting proper disposal at an OCD approved facility) and the area was re-sampled.

Each sample was tested for TPH (8015M), BTEX (8260), and chlorides. The sampling and testing were conducted per approved EPA methods and procedures. The results of these samples are illustrated in Table 1 of the attached Revised Emergency Overflow Pit (H-64) Closure Plan. Composite sample points are illustrated on the F-29 site drawing included in the revised plan.

Below-Ground Redwood Tank Excavation

1. A topographic plot drawing of the site is attached. A vertical cross-section of the site is attached that denotes the results of chloride and TPH concentrations at the various sample sites. A calculated mass of in-situ contaminants is improbable to ascertain due to the various strata layers and their specific indeterminate densities. ROC is reluctant to stipulate any such mass quantity due to the obvious infallibility of delineation assumptions.
2. After in-depth discussions with various oil industry environmentalists and other ROC personnel, it has been decided to utilize a 10-12" packed-clay-layer barrier, instead of a polyethylene liner. The clay layer will be installed by a local contractor known to have previously installed clay layer barriers to the satisfaction of the NMOCD at similar sites closed in SE NM. The clay soil will be purchased from a local supplier.
3. To address lateral moisture migration under the clay-layer, Rice Operating Company proposes to expand the clay-layer coverage so lateral migration of moisture toward the impact area is further inhibited. The in-situ contaminate area will be over-capped an additional four to six feet to further prevent lateral migration/absorption of moisture.
4. The moisture-barrier clay-layer and the in-situ contaminants below it will be protected by placing the barrier ten-twelve feet underground at the level of the present excavation. This layer will not be disturbed by any normal surface activity practiced in the area. The presence and location of the clay layer will be defined on a permanent marker placed at the site. The landowner of record, Rice Operating Company, is fully aware of the future implications of disclosure, and will record the specifics with the property deed.
5. Rice Operating Company will commit to a two-year, quarterly sampling plan to monitor groundwater at this site and results will be reported annually to the NMOCD. The ground water will be tested for BTEX, Chlorides, and any other major cations and anions that the NMOCD and ROC deems reasonably prudent to monitor. The completed wellbore in the west part of the excavation will be extended to the surface, with a concrete pad poured around the well casing and a suitable protective locking device installed on the casing. The source of contamination is removed, the moisture-barrier will be in place to prevent any percolation of contaminants downward, and natural attenuation will be relied upon to remediate the vadose zone over the foreseeable future.

Upon approval of these revised closure plans, the plans will be executed for both the redwood tanks and the emergency overflow pit. Upon completion of the proposed work, the Pit Remediation and Closure forms for the redwood tanks and for the emergency overflow pit will be completed and submitted for the SWD F-29 Facility.

No further work will be performed at this site until the NMOCD responds to this request. This facility is located on a well-traveled road and is highly visible. The excavation at the site has been open for a considerable length of time. As always, Rice Operating Company will appreciate timely consideration in this matter.

If you have any questions, please call.



Carolyn Doran Haynes
Operations Engineer

Enclosures: Revised Closure Plan Emergency Overflow Pit (Permit H-64) SWD F-29
Revised Closure Plan Below Ground Redwood Tanks SWD F-29
Pit Inventory Permit H-64

Cc: KH, LBG, file, Donna Williams
OCD Hobbs District
1625 N. French Drive
Hobbs, NM 88240

**Revised Closure Plan for Below Ground Redwood Tanks
Salt Water Disposal F-29 Facility
NW/4, Sec. 29, T18S, R38E
Lea County, New Mexico**

Determination of General Site Characteristics

A survey of the facility and surrounding area was conducted to determine the wellhead protection area and distance to the nearest surface water body.

No private domestic water source was identified within 200 feet of the tanks.

No water wells were identified within 200 feet of the tanks.

No surface bodies of water or ground water discharge sites (seeps, springs, marshes, or swamps) were identified within 1,000 feet of the tanks.

Depth to ground water at the site was determined to be 50 feet below ground surface based on boring data gathered at the site. A topographic plot drawing of the site is attached.

Soil Remediation Levels

The total ranking score and corresponding recommended soil remediation levels pursuant to Section II A of the Closure Guidelines are as follows:

CRITERIA	APPLICABLE STANDARD	SCORE
Depth to ground water	Less than 50 feet	20
Well head protection	Greater than 1,000 feet from water source Greater than 200 feet from private water source	0
Surface water bodies		0
TOTAL RANKING SCORE		20

ANALYTICAL PARAMETER	REMEDIATION LEVEL
Benzene	10 ppm*
BTEX (benzene, toluene, ethylbenzene, and xylenes)	50 ppm*
TPH (total petroleum hydrocarbon)	100 ppm**
* A field soil vapor headspace measurement of 100 ppm may be substituted for laboratory analysis of the benzene and BTEX concentration limits pursuant to Section II.B.1, Closure Guidelines	
** TPH Remediation Level = 100 ppm plus background concentration	

Target Chloride Level

Based on conversations with Mr. Roger Anderson and Mr. Wayne Price, Environmental Bureau, Oil Conservation Division, it is understood that a target level of 250 ppm (mg/l) has been suggested for delineation of chloride impact to the vadose zone. This level is not specifically stipulated in OCD guidelines or OCD regulations generated by due process as being a target level for remediation. It is also understood that 250 ppm chlorides is the maximum allowable chloride concentration for groundwater to comply with WQCC regulations.

Initial Assessment

After the replacement aboveground tank facility was put in service, the belowground redwood tanks were cleaned and disassembled in January 1999. The tank site was excavated an additional four-feet circumferentially and two-feet deeper. The excavation was visually inspected for evidence of hydrocarbon impact. A small area in the top (north) center end of the excavation exhibited moderate surface staining and was further excavated and the soil was staged on location then later transported to an OCD permitted facility for disposal.

Preliminary composite samples were collected from the bottom of the excavation (9' BGS) by F. Wesley Root on January 20, 1999 and were found to be:

SAMPLE LOCATION	TPH ppm	CHLORIDE ppm
Excavation Bottom East	202	1030
Excavation Bottom Middle	298	316
Excavation Bottom West	24	285

Further excavation was done in the east and middle of the hole, extracting an additional two feet from the bottom of the hole. Composite samples of the newly excavated bottom (at 11' BGS) were collected by F. Wesley Root on January 26, 1999 and analyzed. Excavation side samples were collected June 3, 1999 by Safety and Environmental solutions. The results are:

SAMPLE LOCATION	TPH ppm	CHLORIDE ppm
Excavation Bottom East	<10	791*
Excavation Bottom Middle	23.4	443*
Excavation Bottom West	24	285*
Excavation Side West	143	1084**
Excavation Side East	12	207**

TPH: EPA Method 8015M Chlorides: *EPA Method 325.3 **Standard methods 4500 Cl B

All excavated soil was staged on site, tested for TPH content. Contaminated soil was disposed at the NMOCD approved Sundance facility. Disposal manifests are attached.

Rice prepared a work plan to determine the vertical extent of chloride impact to the vadose zone at the redwood tank excavation. On March 6, 1999, the TPH and chloride concentration was delineated in the vadose zone that was directly beneath the redwood tanks. The Hobbs District I Office of OCD was notified 48 hours in advance, and Mr. Wayne Price visited the site to witness boring, sampling, and testing operations while in progress.

The ground water in this area was determined by this boring to be 50 feet from surface grade. Attached are the March 6, 1999, drilling logs with applicable subsurface lithology, analyticals, and remarks. The total boring depth was 36 feet for the East boring and 50 feet for the West boring (which was to groundwater.) Samples were taken at 5-foot intervals and were split into two or more portions.

One portion was field screened for soil vapor headspace using a HNU DL-101 photoionizer detector (PID) pursuant to Section II.B.1 of the closure guidelines and for chloride content using a field chloride test kit. Samples were submitted to Cardinal Laboratories for TPH analysis using EPA Method 418.1, for chloride concentrations using EPA Method 325.3 and for BTEX analysis using EPA Method 8260.

The chlorides and BTEX levels of the groundwater indicate that the groundwater has not been adversely impacted by the migration of salt water and chlorides are <250ppm at 10 feet above groundwater. The West area vadose zone does contain TPH (3660ppm), but it is located 10 feet above groundwater. The East area of the excavation tested <100ppm TPH and <250ppm Chlorides 20 feet above groundwater. Results are summarized below.

Table 1: Facility F-29 Analytical Results in PPM of Boring Sampling March 5, 1999

SAMPLE ID	DEPTH	OVM	CHLORIDE		TPH
			FIELD	LAB	
West BH B-1	40-41 feet	1125	440	206	3660
West BH B-1	45-46 feet	61	150	158	70.8
East BH B-2	30-31 feet	41	275	95	48.0
East BH B-2	35-36 feet	33	100	63	465*
East BH B-2	35.5 feet				117
Groundwater	50 feet		150	194	BTEX<10

TPH: EPA Method 418.1 Chlorides: EPA Method 325.3 BTEX: EPA SW 846 8260

*This value is believed to be an anomaly considering the OVM and chloride concentrations. A reserve sample at 35' was tested for confirmation and was found to be a more predictable level.

The boring in the West area of the excavation was cased as illustrated on the boring log and developed in order to test the groundwater. The East boring was filled/plugged with bentonite.

The attached plot drawings illustrate the location of sample sites. Also attached is a corresponding vertical cross-section view of measured in-situ contaminant concentrations.

Recommendation for Risk Assessment:

Considering groundwater at 50 feet BSG and the concentration of >100 ppm TPH and >250 ppm chlorides in the vadose zone:

- A. Although extremely unlikely, many consecutive years of abnormally high rainfall could conceivably afford the possibility of chlorides and TPH leaching into the groundwater during the next 10,000 years.
- B. Rice Operating proposes to eliminate the downward migration of moisture and therefore chlorides and TPH to groundwater by installing a 10-12" packed-clay-layer barrier over the entire excavated area, which is an overlap of the impacted area by 6-8 feet all around, and at the depth of 10-12 feet. The clay-layer will be installed by a local contractor known to have previously installed clay barriers to the satisfaction of the NMOCD at similar sites closed in SE NM. The clay will be purchased from a local supplier who has supplied much of the clay used in this area. NMOCD (Hobbs) will have 48 hours advance notice of the installation.
- C. To address lateral migration under the moisture barrier, the clay-layer coverage will be expanded to extend four to six feet beyond the impacted area. The over-cap of the impact area will further inhibit/prevent lateral migration/absorption of moisture. The clay-barrier will be covered and packed with a layer of rock-free soil, and then the excavation will be backfilled and packed with clean soil/caliche. The site will be re-graded and the berm will be rebuilt.
- D. The presence and location of the clay-layer will be defined on a permanent concrete marker placed at the site. The information will also be recorded on the property deed for future disclosure purposes. Landowner of record is Rice Operating Company.
- E. Rice Operating Company will commit to a two-year, quarterly sampling plan to monitor groundwater at this site and results will be reported annually to the NMOCD. The ground water will be tested for BTEX, Chlorides, and any other major cations and anions that the NMOCD and ROC mutually deem reasonably prudent to monitor. The completed wellbore in the west part of the excavation will be extended to the surface, appropriately grouted. A concrete pad will be poured around the well casing and a protective locking device will be installed on the casing. The source of contamination is removed, the moisture-barrier will prevent percolation of contaminants downward, and natural attenuation will be relied upon to remediate the vadose zone over the foreseeable future.

Attachments: Drilling Logs
Plot Drawings: Site Topo, Sampling Points, X-Section, Clay-Layer Spec.
Laboratory Results and Chains-of-Custody
Disposal Manifests

Revised Closure Plan for Emergency Overflow Pit (Permit No. H-64)
Salt Water Disposal Well No. F-29
Southwest 1/4, Section 29 of T18S R38E
Lea County, New Mexico

Determination of General Site Characteristics

A field survey of the pit and surrounding area was conducted to determine the wellhead protection area and distance to the nearest surface water body.

No private domestic water source was identified within 200 feet of the pit.

No water wells were identified within 200 feet of the pit.

No surface bodies of water or groundwater discharge sites (seeps, springs, marshes, or swamps) were identified within 1,000 feet of the pit.

Depth to ground water at the site was determined to be 50 feet below ground surface based on boring data gathered at the F-29 Facility site. A topographic plot of the site is attached.

Soil Remediation Levels

The total ranking score and corresponding recommended soil remediation levels pursuant to Section II A of the Closure Guidelines are as follows:

CRITERIA	APPLICABLE STANDARD	SCORE
Depth to ground water	Less than 50 feet	20
Well head protection	Greater than 1,000 feet from water source Greater than 200 feet from private water source	0
Surface water bodies		0
TOTAL RANKING SCORE		20

ANALYTICAL PARAMETER	REMEDIATION LEVEL
Benzene	10 ppm*
BTEX (benzene, toluene, ethylbenzene, and xylenes)	50 ppm*
TPH (total petroleum hydrocarbon)	100 ppm**
* A field soil vapor headspace measurement of 100 ppm may be substituted for laboratory analysis of the benzene and BTEX concentration limits pursuant to Section II.B.1, Closure Guidelines	
** TPH Remediation Level = 100 ppm plus background concentration	

Target Chloride level

Based on conversations with Mr. Roger Anderson and Mr. Wayne Price, Environmental Bureau, new Mexico conservation Division, it is understood that a target level of 250 ppm (mg/l) has been suggested for delineation of chloride impact to the vadose zone. This level is not specifically stipulate in OCD guidelines of OCD regulations generated by due process as being a target level of remediation. It is also understood that 250 ppm chlorides is the maximum allowable chloride concentration for groundwater to comply with WQCC standards.

Initial Assessment

The emergency pit was visually inspected for evidence of hydrocarbon impact. A small area in the north end of the pit exhibited moderate surface staining. The stained area was excavated and the soil was staged on location pending transport to an OCD permitted facility for disposal.

Three soil samples were collected to verify that the emergency pit meets the remediation levels. The samples were split into two portions. One portion was field screened for soil vapor headspace using a HNU DL-101 photoionizer detector (PID) pursuant to Section II.B.1 of the closure guidelines. The remaining sample portion was submitted to Cardinal Laboratories for TPH analysis using EPA Method 8015M. In addition, the samples were analyzed for chloride concentrations using EPA Method 325.3.

Field headspace readings and analytical results are presented in the following table.

SAMPLE ID	OVM	Chloride	TPH	BTEX
PBN	6 ppm	79 ppm	59.9 ppm	
PBS	3 ppm	79 ppm	30.7 ppm	
PBC	< 1 ppm	111 ppm	30.2 ppm	
PB		64 ppm	<10 ppm	<50 ppm
PS		430 ppm	<10 ppm	<50 ppm
NPS		303 ppm	< 50 ppm	<50 ppm
NPB		653 ppm	< 50 ppm	<50 ppm
PBN = composite sample from the bottom of the excavation in the north end of the pit (3.5 feet below pit bottom) PBS = sample from the bottom of the trench in the south end of the pit (3.5 feet below pit bottom) PBC = composite sample of the material forming the bottom and sides of the pit PB = composite sample of the pit bottom (June 3, 1999) that had no visible hot spots PS = composite sample of pit sides that had no visible hot spots (June 3, 1999) NPS = composite sample of the north side of pit after a hot spot excavation (June 16, 1999) NPB = composite sample of new bottom after excavation (June 16, 1999)				

Chlorides: Standard methods 4500 Cl B; TPH: EPA 8015M; BTEX: EPA 8260

Summary

- Field headspace results measured levels well below 100 ppm and were substituted for BTEX analysis (for the January samples.) Soil TPH concentrations are below the remediation level of 100 ppm. Soil Chloride levels ranged from 79 to 653 ppm.
- The site assessment activities verify that the vertical and horizontal extent of impact has been delineated and that the remaining hydrocarbon concentrations meet the remediation standards for closure pursuant to the Unlined Surface Impoundment Closure Guidelines.

Conclusions and Recommendation for Risk Assessment

Based on the information presented, the pit is in compliance with OCD closure regulations of TPH < 100 ppm. Rice will initiate closure plan activities upon receipt of written OCD approval of this plan. Closure activities include:

- A. The source of contamination is removed. Remediation of contaminants remaining in the vadose zone will undergo natural attenuation over the next 10,000 years.
- B. Install a 10-12" compacted clay layer (clay purchased locally) on the bottom of the pit to prevent moisture induced downward or lateral migration of the remaining chlorides.
- C. Backfill on top of the clay with clean material purchased from a local caliche pit. The site will be re-graded and the berm will be rebuilt.
- D. Excavated material (approximately 40 loose cubic yards) has already been disposed at the Parabo Disposal Facility operated by Sundance Services, Inc. and the disposal manifests are attached.
- E. ~~The presence and location of the clay-layer will be defined on a permanent concrete marker placed at the site. The information will also be recorded on the property deed for future disclosure purposes. Landowner of record is Rice Operating Company.~~

Attachments: Plot drawings: Site Topo, Sampling Points, X-Section, Clay-Layer Grade
Laboratory Results and Chains-of-Custody
Disposal Manifests

District I
P.O. Box 1980, Hobbs, NM 88241-1980
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
OPERATOR'S MONTHLY REPORT

Form C-141
Originated 2/13/97

Submit 2 copies to
Appropriate District
Office in accordance
with Rule 116 on
back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name Rice Operating Company	Contact F. Wesley Root
Address 122 West Taylor Hobbs, NM 88240	Telephone No. 505-393-9174
Facility Name SWD Well F-29	Facility Type SWD Disposal Facility

Surface Owner Rice Operating Company	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter F	Section 29	Township T18S	Range R38E	Feet from the	North/South line	Feet from the	East/West Line	County LEA
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NATURE OF RELEASE

Type of Release Production Water	Volume of Release Unknown	Volume Recovered 0 bbls
Source of Release Tanks and/or lines associated with facility	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 03/05/99 9:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mr. Wayne Price	
By Whom? F. Wesley Root	Date and Hour 03/05/99 10:30 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully. (Attach Additional Sheets If Necessary) N/A		
Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets If Necessary) Soil impacted from cumulative effects of minor leaks during operation of facility. Removed potential source (below-grade tanks and associated piping). Excavated and transported 510 lcys of impacted soil to OCD permitted disposal facility (Parabo) during removal operations.		
Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If Necessary) Area affected: Impacted soil limited to a surface area 40 feet by 70 feet (2,800 square feet). Vertical extent of impact was 35 feet below ground surface. Ground water was not impacted. Drilled soil borings on 3/5/99 to assess impact and provide information for development of corrective action plan. Filing closure plan with Wayne Price, OCD, Santa Fe.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCDD rules and regulations all operators are required to report and /or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCDD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, human health or the environment. In addition, NMOCDD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and /or regulations.		
Signature: <i>Carolyn Doran Haynes</i>	OIL CONSERVATION DIVISION	
Printed Name: Carolyn Doran Haynes	Approved by District Supervisor:	
Title: Operations Engineer	Approval Date:	Expiration Date:
Date: 6-24-99 Phone: 505-393-9174	Conditions of Approval:	Attached <input type="checkbox"/>

DRILLING LOG	Site Name Location	Well No.	Date Drilled:	Driller:	Logged by:
		B-1	3-5-9	C. Harrison	FWR
RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471	SWD Facility F-29 29-T18S-R38E Lea Co. New Mexico	Well Depth:	Boring Depth:	Well Material:	Construction:
		60'	60'	Sch 40 PVC	
		Casing Length:	Boring Diameter:	Casing Size:	
		30'40' GS	6"	2"	Grouted Bentonite plug
		Screen Length:	Drilling Method:	Slot Size:	
		20'	Air Rotary	0.02" FS	


DEPTH (Feet)	SUBSURFACE LITHOLOGY	Sample Type	OVM (ppm)	REMARKS	Boring
10	Bottom of Excavation at 10' BGS				
11	Gray- brown, fine-grained, calcareous sand (caliche)				
12					
13	Indurated light brown calcareous sand (caliche)				
14					
15	Light brown calcareous sand (caliche)	Split-Spoon	242	• Chloride – 800 ppm	
16					
17					
18					
19					
20		Split-Spoon	452	• Chloride – 800 ppm	
21					
22					
23					
24					
25		Split-Spoon	456	• Chloride – 1700 ppm	
26					
27					
28					
29					
29	Indurated silicaous sandstone				
30	Light red-brown calcareous sand (SM)	Split-Spoon	241	• Chloride – 700 ppm	
31					
32					
33					
34					
35	Light gray limestone interbedded with sand stringers	Split-Spoon	549		
36					
37					
38					
39	Brown fine grain slightly calcareous sand			• Chloride – 440 ppm ♦ Chloride – 206 ppm ♦ TPH – 3660 ppm	
40		Split-Spoon	1125		
41					
42					
43					
44	Sand interbedded w/ gray limestone stringers			• Chloride – 150 ppm ♦ Chloride – 158 ppm ♦ TPH – 70.8 ppm	
45		Split-Spoon	61		
46					
47					
48					
49	Brown fine grain slightly calcareous sand (SM)			DTW 50' @ 15:30	
50		Split-Spoon	4		

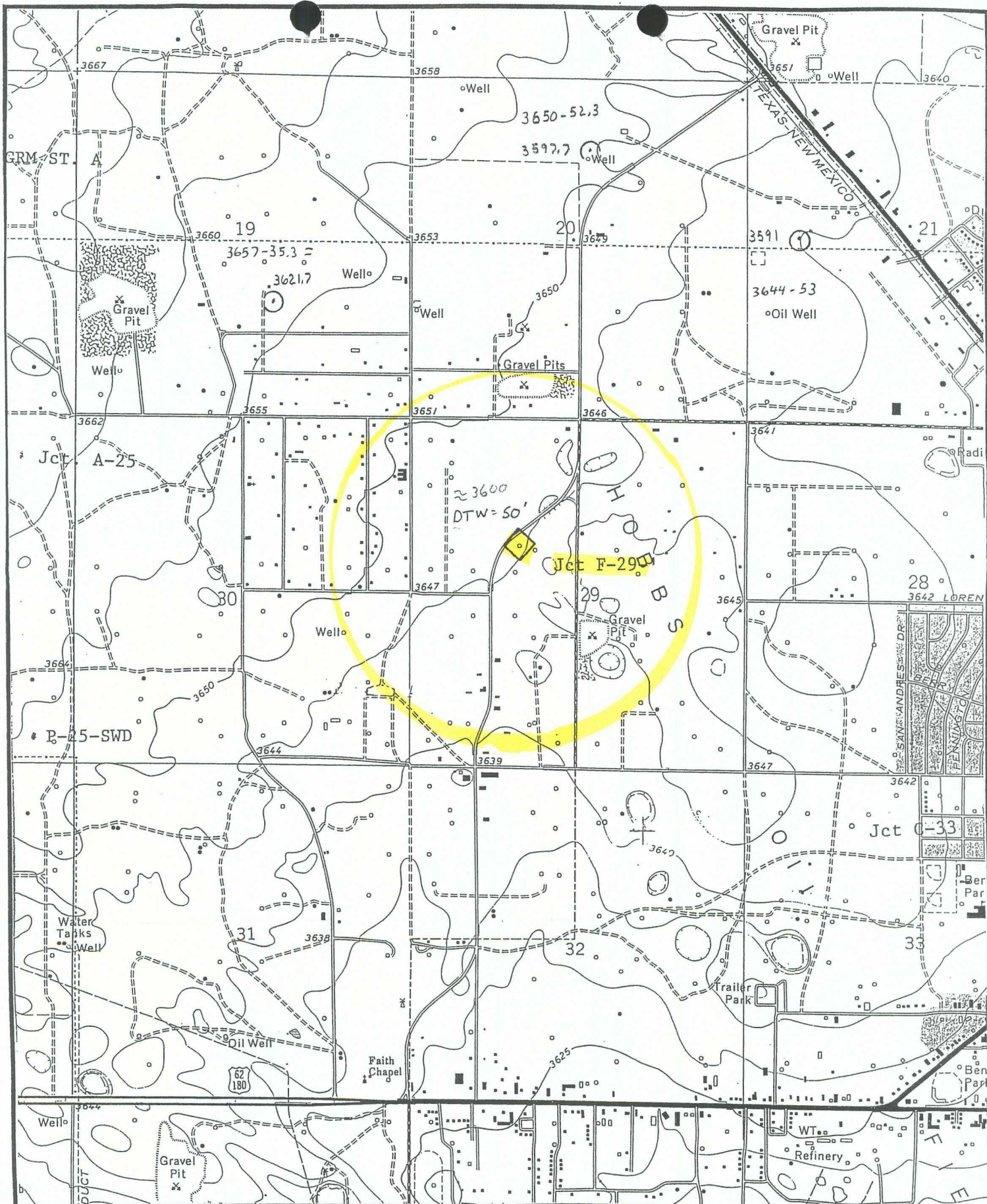
- Field Test
- ♦ Laboratory Result

-  Cement Grout
-  Bentonite Seal
-  Sand Pack
-  0.02 Screen

DRILLING LOG RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471	Site Name: SWD Facility F-29 29-T18S-R38E Lea Co. New Mexico	Well No.: B-2	Date Drilled: 3-5-9	Driller: C. Harrison	Logged by: FWR
		Well Depth:	Boring Depth: 36'	Well Material:	Construction:
		Casing Length:	Boring Diameter: 6"	Casing Size:	Plugged with Bentonite
		Screen Length:	Drilling Method: Air Rotary	Slot Size:	

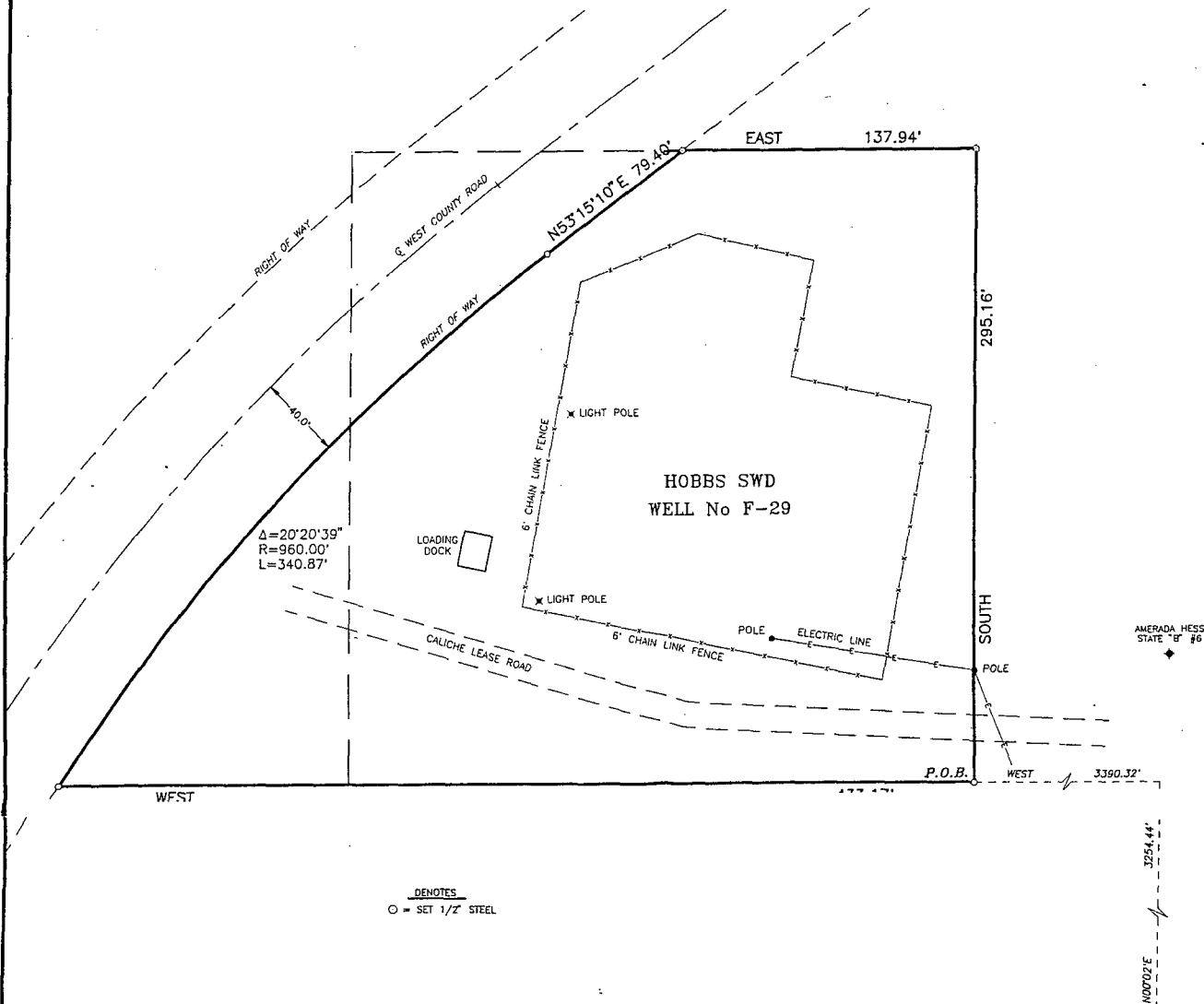
DEPTH (Feet)	SUBSURFACE LITHOLOGY	Sample Type	OVM (ppm)	REMARKS	Boring
10	Bottom of Excavation at 10' BGS				
11	Light Gray silty caliche				
12					
13					
14					
15		Split-Spoon	443		
16					
17					
18					
19					
20	Light gray calcareous sand (caliche)	Split-Spoon	236		
21	Silty, fine grained				
22					
23					
24					
25		Split-Spoon	371		
26					
27					
28					
29					
30		Split-Spoon	41	• Chloride – 275 ppm ♦ Chloride – 95 ppm ♦ TPH – 48 ppm	
31					
32					
33	Light red-brown calcareous sand (SM)				
34	Fine grained.				
35		Split-Spoon	33	• Chloride – 100 ppm ♦ Chloride – 63 ppm ♦ TPH – 117 ppm	
36					
37	Bottom of boring at 36' BGS				
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					

- Field Test
- ♦ Laboratory Result
-  Bentonite Seal



<p>Rice Operating Company 122 W. Taylor Hobbs, NM 88240 Ph: (505) 393-9174 FAX 397-1471</p>	<p>Map Legend</p> <ul style="list-style-type: none"> ○ - Registered Well Location ◇ - Emergency Pit, SWD F-29 <p>Hobbs West Topographic Map, Scale 1" = 2,000'</p>	<p>Emergency Pit SWD Well F-29 Ltr F, Sec 29-T18S-R38E Lea Co. NM</p>
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SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO



NOTES
O = SET 1/2" STEEL

LEGAL DESCRIPTION

A TRACT OF LAND IN THE SE/4 OF THE NW/4 OF SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, BEING FULLY DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT BEING N.07°02'E. 3254.44 FEET AND WEST, 3390.32 FEET FROM SOUTHEAST CORNER OF SAID SECTION 29. THENCE WEST, 433.17 FEET TO A POINT ON THE EAST RIGHT OF WAY LINE OF WEST COUNTY ROAD BYPASS, ALSO A POINT ON A CURVE TO THE NORTHEAST, THENCE ALONG THIS CURVE (HAVING A CENTRAL ANGLE OF 20°20'39", A RADIUS OF 960.00 FEET AND A CHORD BEARING AND DISTANCE OF N.43°04'56"E., 339.08 FEET) A LENGTH OF 340.87 FEET; THENCE N.53°15'10"E., 79.40 FEET; THENCE EAST, 137.94 FEET; THENCE SOUTH, 295.16 FEET TO THE POINT OF BEGINNING. SAID TRACT CONTAINS 2.068 ACRES MORE LESS.

29 28
32 33

0 40 80 120 Feet

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



JOHN W. WEST, N.M. P.E. & P.S. No. 676
TEXAS P.L.S. No. 1138
RONALD J. EIDSON, N.M. L.S. No. 3239
TEXAS P.L.S. No. 1883
GARY L. JONES N.M. P.S. No. 7977

RICE ENGINEERING CORP.

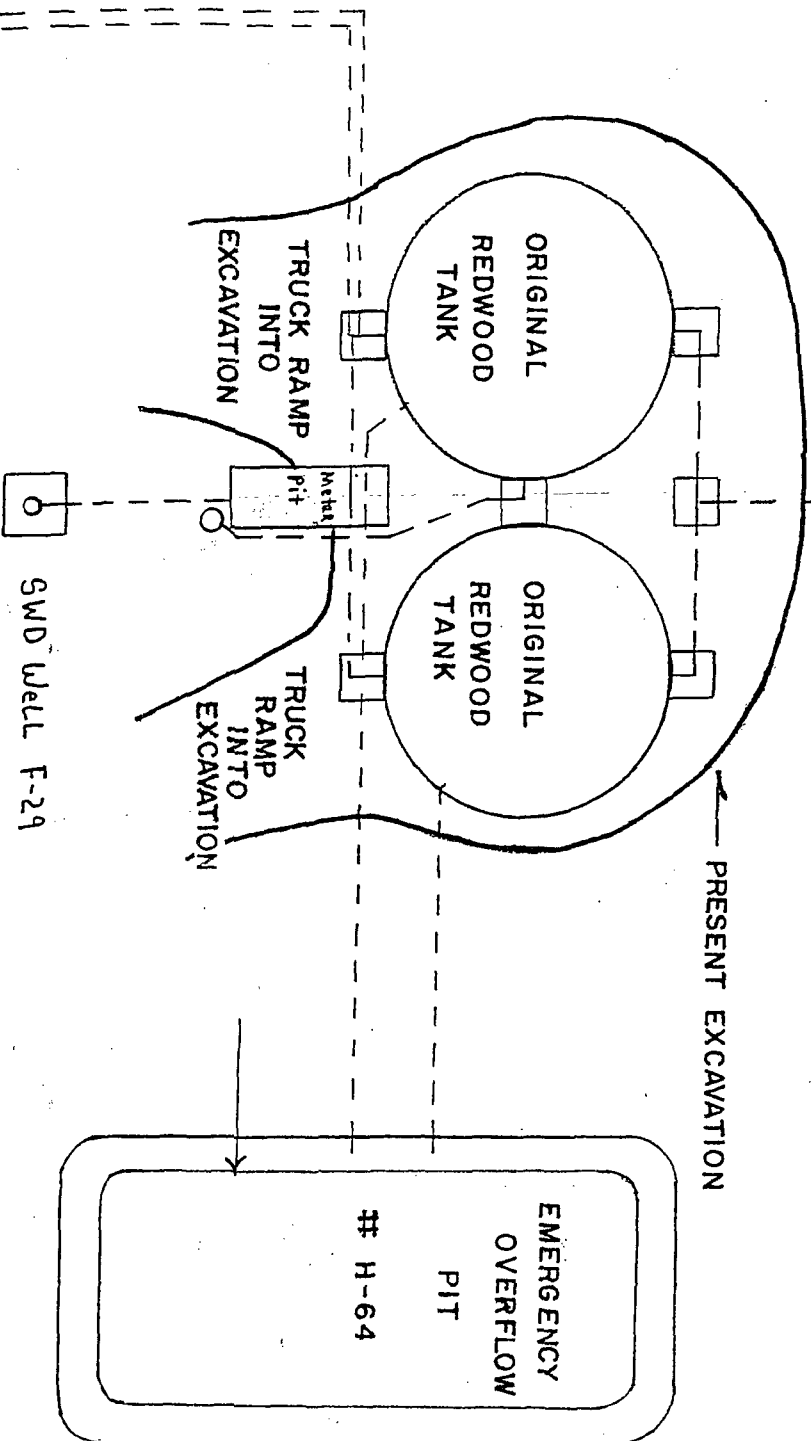
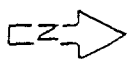
A TRACT OF LAND LOCATED IN
SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

JOHN WEST ENGINEERING CO.

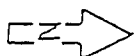
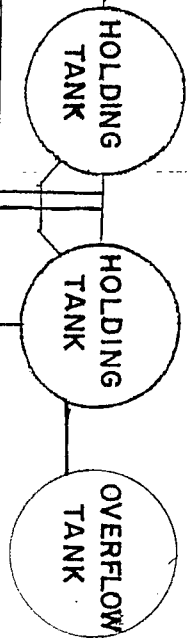
CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

Surveyed By: CASOM	Drawn By: HOLMES	Last Rev. Date:	Drawing Number
Date Begin: 8-20-93	Date: 8-27-93	Dist: JH No 51	D-819-1
Date End: 8-20-93	Approved By:	Sheet 1 of 1 Sheets	
W.O. Number: 93-11-1558	File Name: DRAWINGS\RICE1558		

RICE OPERATING COMPANY
SWD F-29
SEC 29 T18S R38E
ORIGINAL SITE
W/ PRESENT EXCAVATION
INCLUDED FOR
REFERENCE



ABOVE GROUND TANK FACILITY



RICE OPERATING COMPANY
SWD F-29
SEC 29 T18S R37E
PRESENT SITE

EXCAVATION
10-12' BSG

TRUCK
RAMP

TRUCK
RAMP

Manhole
Pit

5WD Well F-29

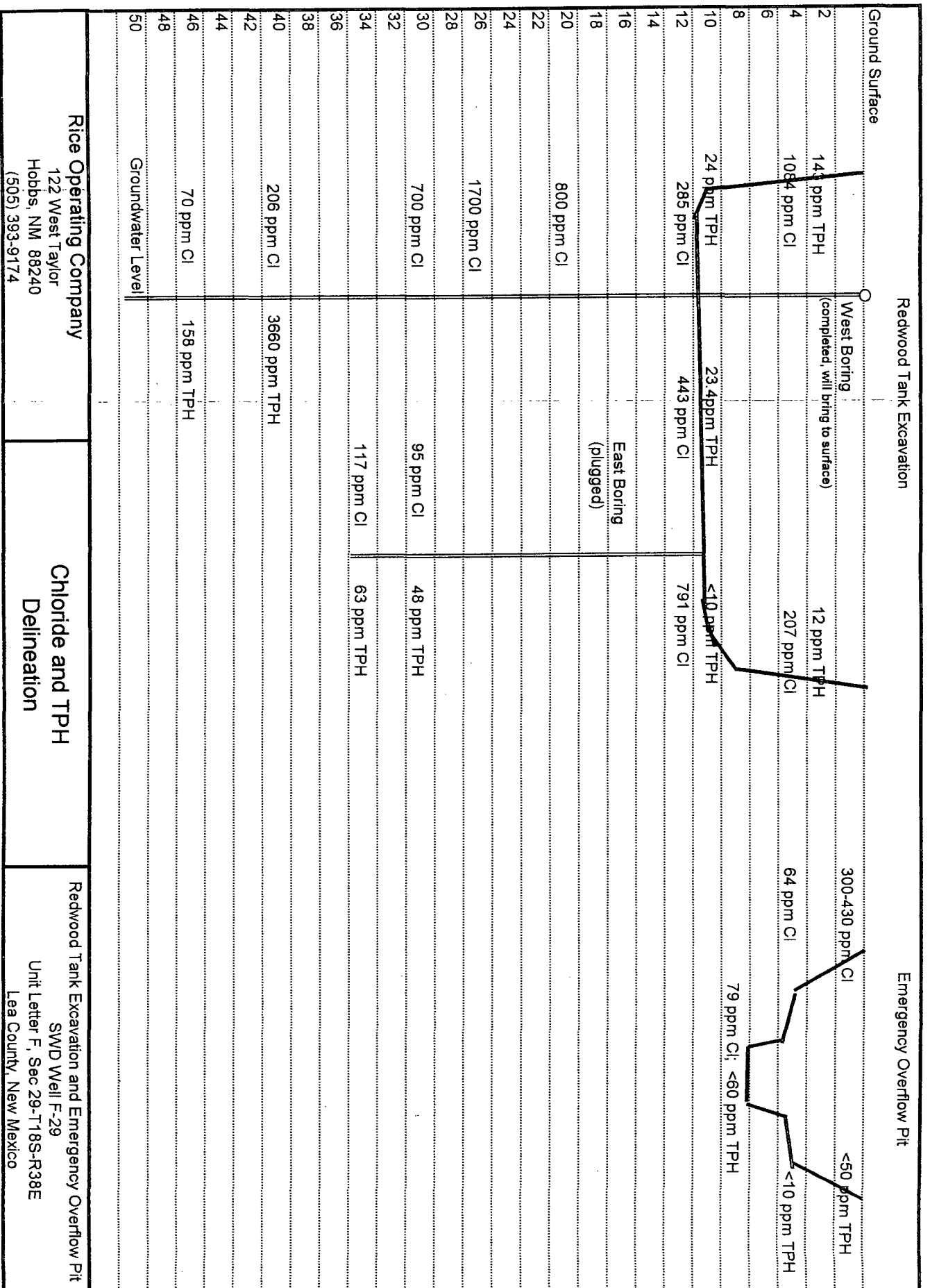
June 11 Excavation

3' deep trench

EMERGENCY
OVERFLOW
PIT

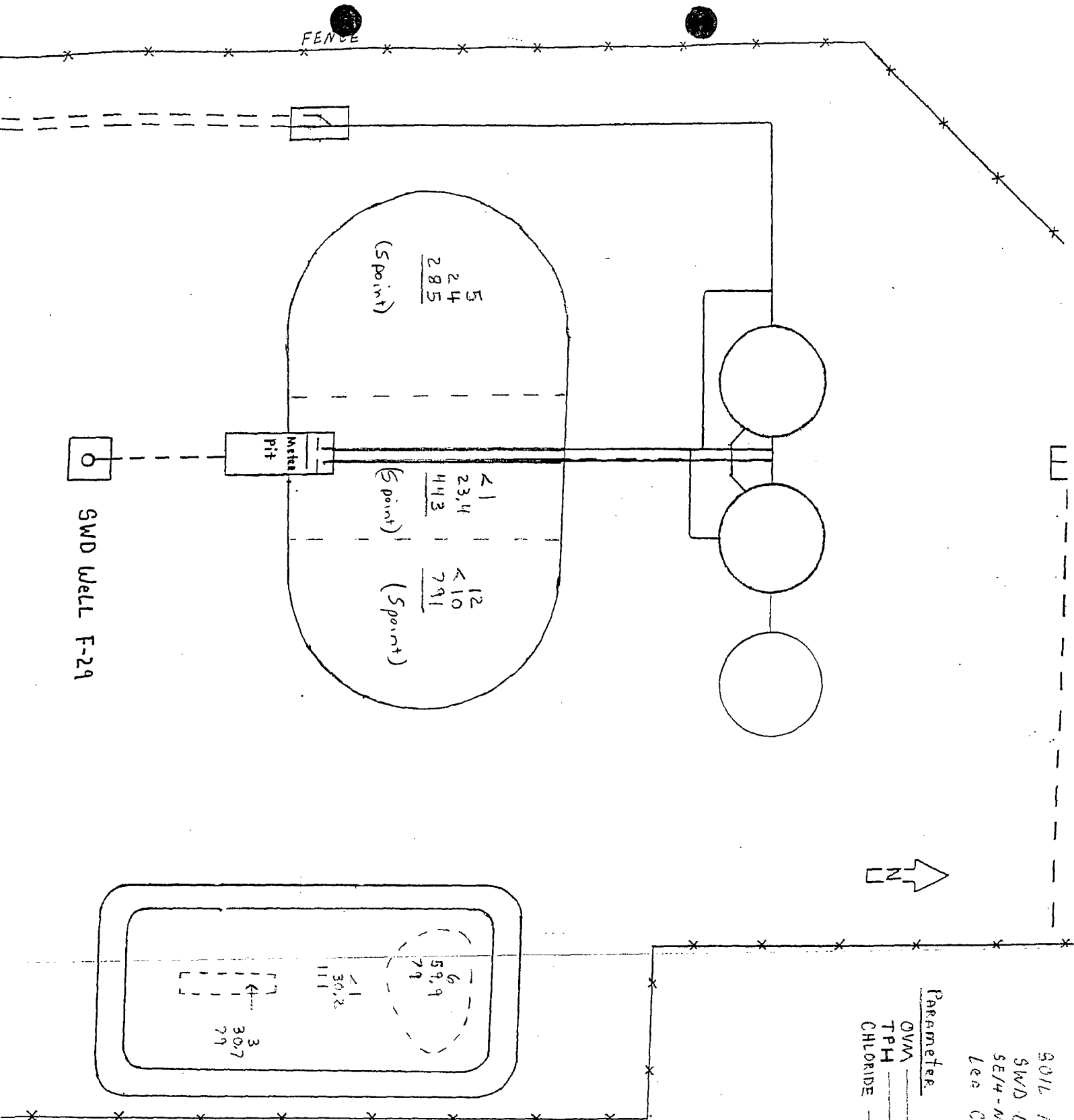
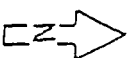
H-64

3' x 1' deep
trench



SOIL ANALYTICAL RESULTS
SMD Well F-29
SE/4 - NW/4 - 29 - T18S - R38E
Lee County, New Mexico

Parameter	Delineation Level
OWA	< 100 PPM
TPH	< 100 PPM
CHLORIDE	< 250 PPM



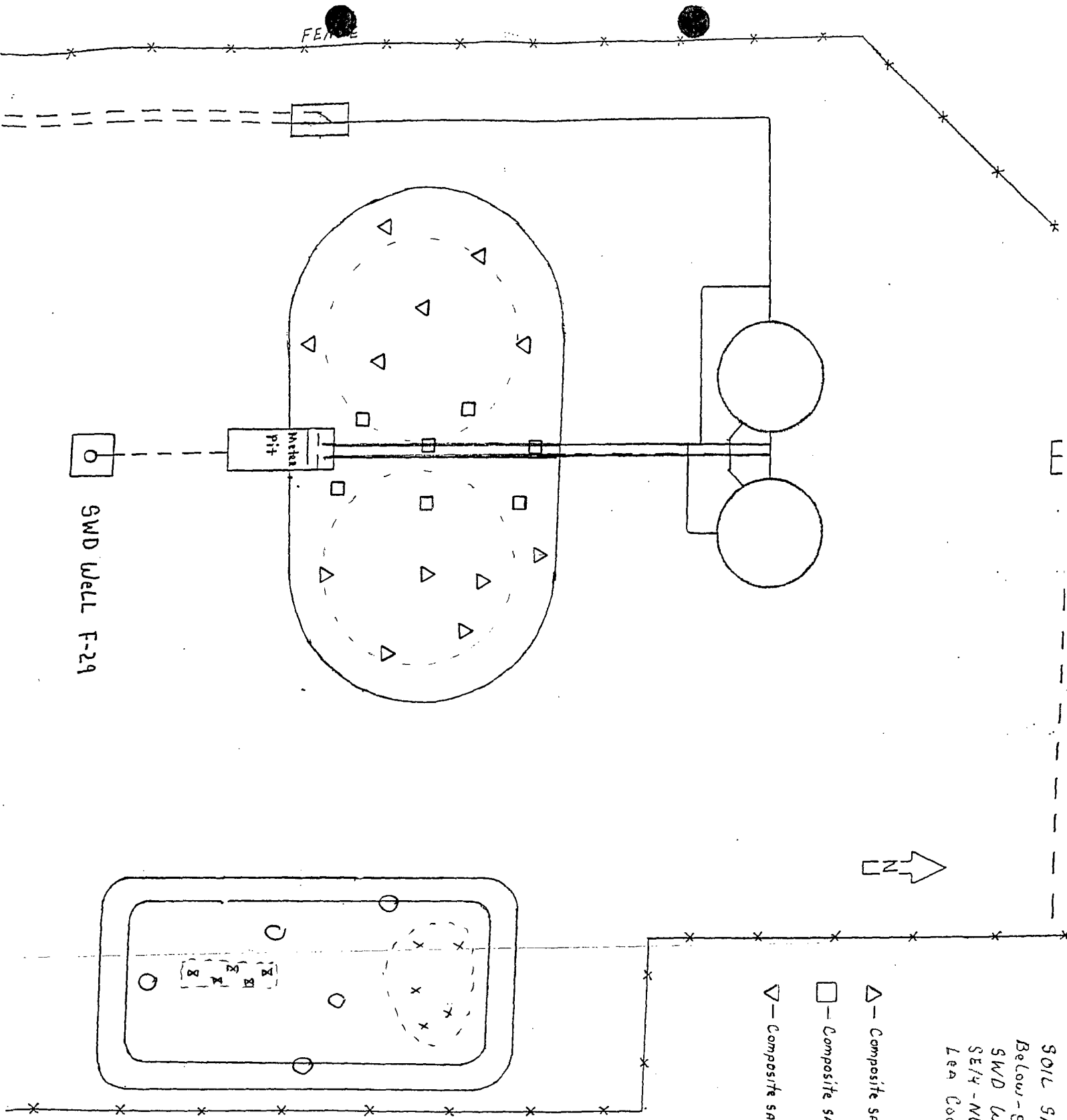
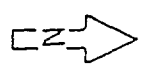
January 18, 99
 Sampling Event
 all samples are
 5-point composites

Scale
 1" = 20'

SOIL SAMPLING DIAGRAM
 Below-grade Tank Excavation
 SWD Well F-29
 SE14-NW14-29-T18S-R38E
 Lea County, New Mexico

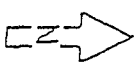
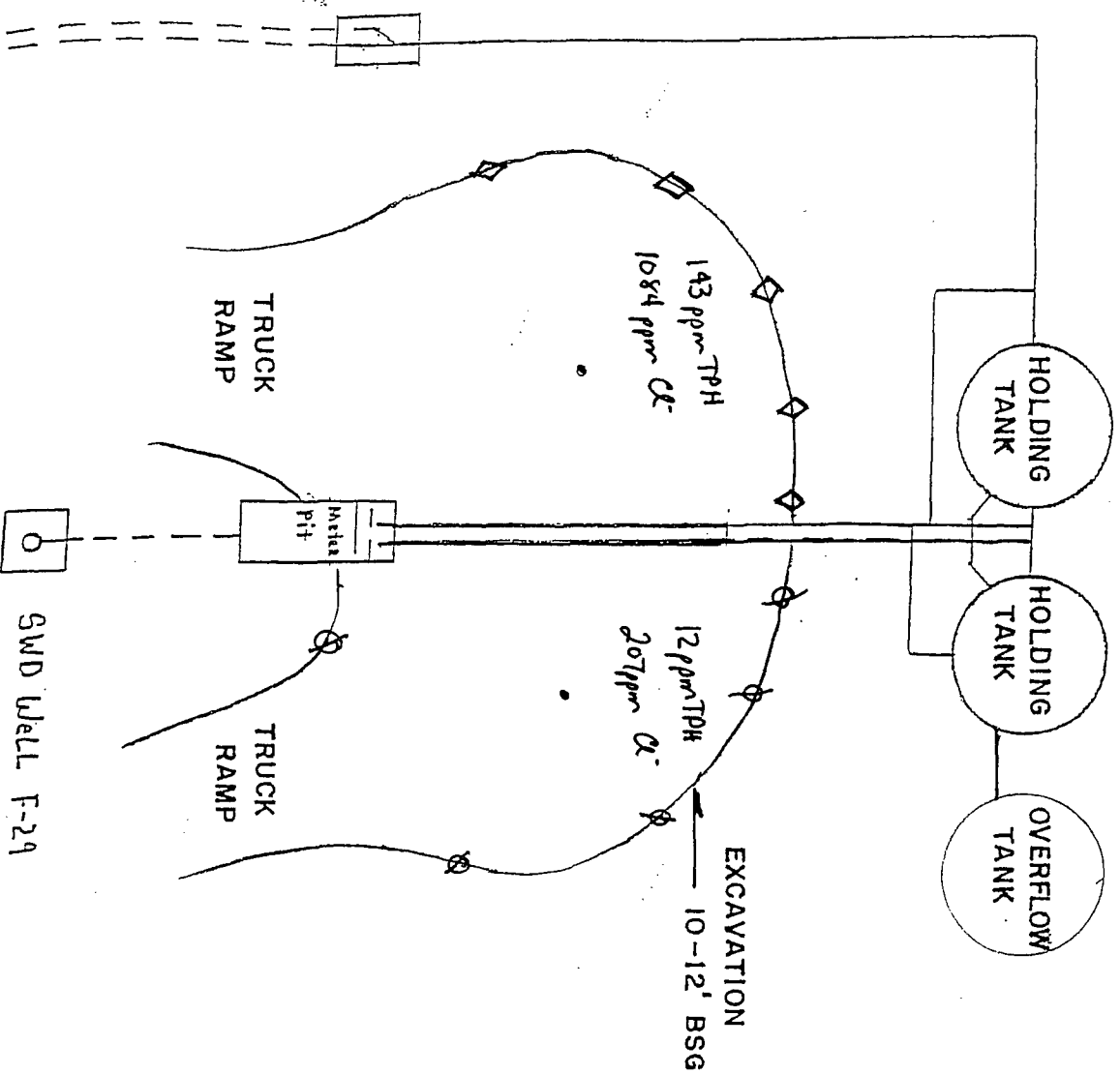
- △ - Composite sample east 1/3 excavation
- - Composite sample middle 1/3 excavation
- ▽ - Composite sample west 1/3 excavation

January 18, 1999
 Sampling Extent



Scale
 1" = 20'

ABOVE GROUND TANK FACILITY



RICE OPERATING COMPANY

SWD F-29

SEC 29 T18S R37E

PRESENT SITE

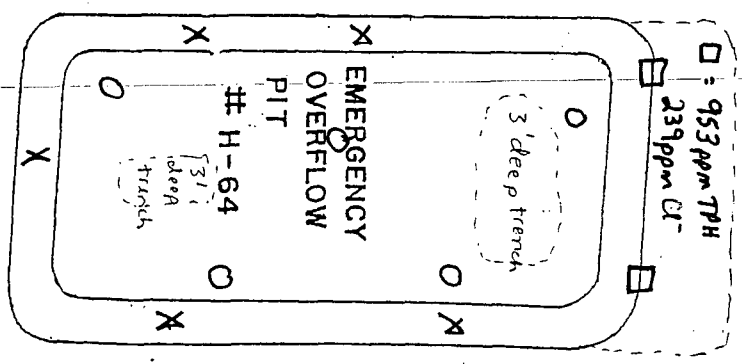
JUNE 3 EVENT

- ◇ Excavation West Side
- ◇ Excavation East Side
- X Pit Sides
- O Pit Bottom
- Pit side hot spot

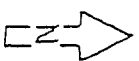
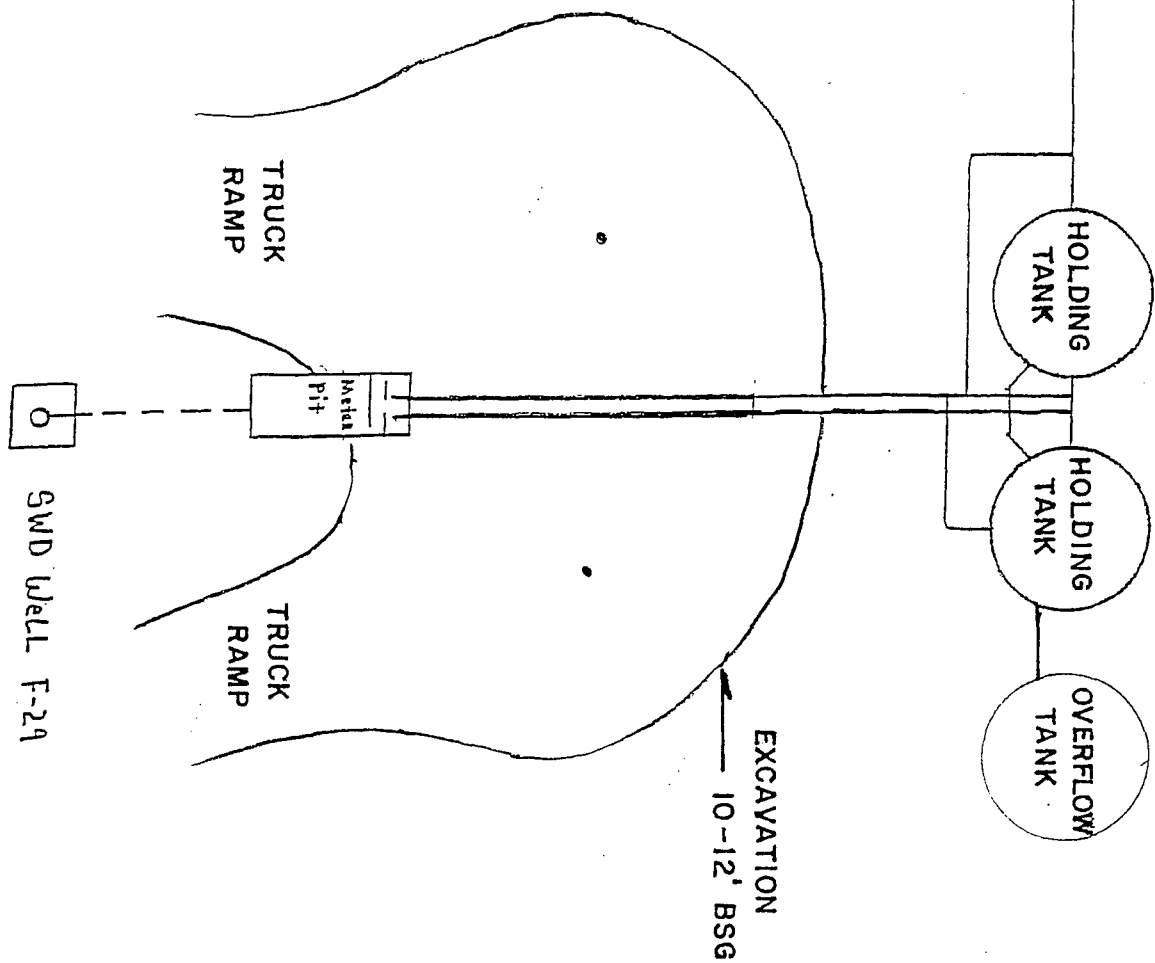
S-pt composites
except pit side
hot spot

O = < 10 ppm TPH
64 ppm Cl-
X = < 10 ppm TPH
430 ppm Cl-

JUNE 11 EXCAVATION



ABOVE GROUND TANK FACILITY

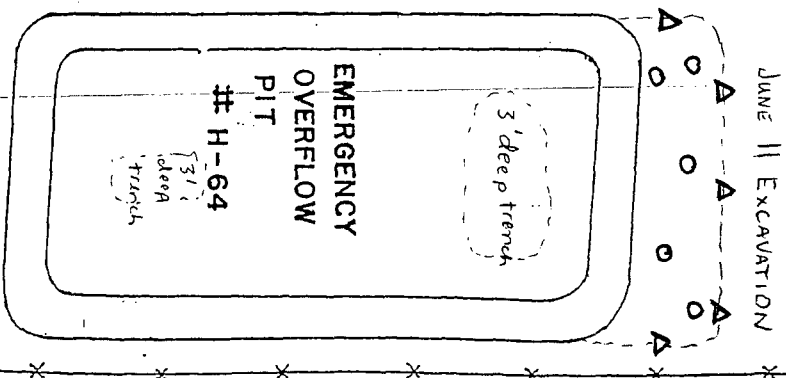


RICE OPERATING COMPANY

SWD F-29

SEC 29 T18S R37E

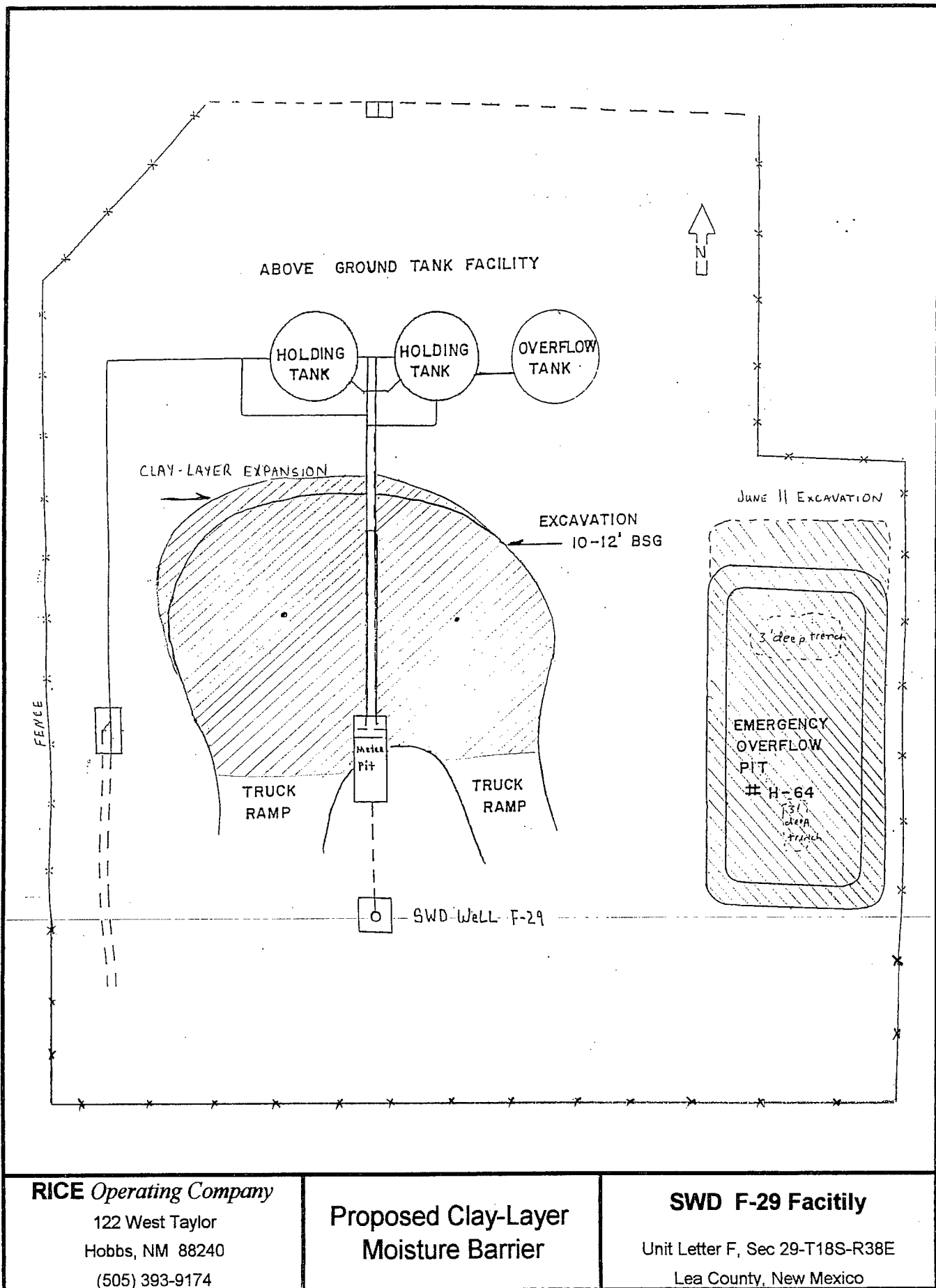
PRESENT SITE



5-pt. Composites

Δ - SIDE
O - BOTTOM

Δ = < 50 ppm TPH
303 ppm @
O = < 50 ppm TPH
653 ppm @





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

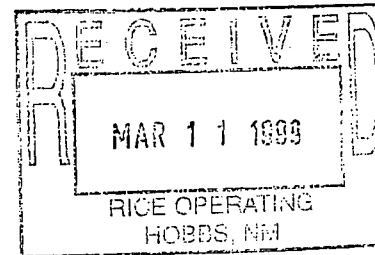
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F. WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 03/08/99
Reporting Date: 03/09/99
Project Number: NOT GIVEN
Project Name: SWD WELL F-29
Project Location: 29-T195-R38E, LEA CO. NM

Sampling Date: 03/05/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE:		03/08/99	03/08/99
H4049-1	B-1 (40-41')	3660	206
H4949-2	B-1 (45-46')	70.8	158
H4049-3	B-2 (15-16')	10400	665
H4049-4	B-2 (30-31')	48.0	95
H4049-5	B-2 (35-36')	465	63
Quality Control		244	1335
True Value QC		240	1319
% Recovery		102	101
Relative Percent Difference		3.2	1.5
METHODS: EPA 600/4-79-02		418.1	325.3

*Analyses performed on 1:4 w:v aqueous extracts.



Burgess J. A. Carter
Chemist

3/19/99
Date

H4049-1.XLS

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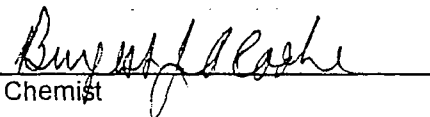
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F.WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/05/99
Reporting Date: 03/06/99
Project Owner: RICE OPERATING
Project Name: SWD F-29
Project Location: 29-T18S-R38E, LEA CO., NM

Sampling Date: 03/05/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		03/05/99	03/05/99	03/05/99	03/05/99	03/05/99
H4046-1	B-1	194	<0.002	<0.002	<0.002	<0.006
Quality Control		1335	0.089	0.095	0.092	0.276
True Value QC		1319	0.100	0.100	0.100	0.300
% Recovery		101	88.9	94.6	91.5	92.0
Relative Percent Difference		1.5	3.5	4.6	4.0	5.1

METHODS: Cl⁻ - Std. Methods 4500-Cl⁻B; BTEX - EPA SW-846 8260


Chemist

3/6/99
Date

H4046.XLS

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ARDINAL LABORATORIES, INC.

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

[illegible]

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

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

Originated 6/27/97

Submit Original
Plus 1 Copy
to Santa Fe

PIT INVENTORY FORM

Operator: RICE OPERATING COMPANY
Address: 122 WEST TAYLOR
HOBBS NM 88240
Phone Number: (505) 393-9174
Previous Operator(s): Hobbs Salt Water Disposal System
Is the pit permitted: Yes ☐ No ☒
Unit Letter: F Section: 29 Township: 18S Range: 38E
County: Lea
Location Name: Rice Operating Company Salt Water Disposal F-29 Well
Number of wells to the pit: Truck terminal (varies)
Are the wells to the pit operated by one operator ☒ or multiple operators ☐
Total daily volume (in barrels) to the pit: 1,000
Pit Type: 2 - below ground Redwood terminal tank
(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 test)
Pit age (years): 30
Is the pit lined ☒ or unlined ☐
Type of liner (None, Synthetic, Clay): Redwood tanks 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): 28" dia x 8" 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: 10/31/97

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
Amarillo, 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
Phone Number: (505) 393-9174
Previous Operator(s): Hobbs Salt Water Disposal System
Is the pit permitted: Yes ☒ No ☐
Unit Letter: F Section: 29 Township: 18S Range: 38E
County: Lea County
Location Name: F-29 Salt Water Disposal System Well
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, BSS/W/Tank Bottoms, Compressor, Pigging, Washdown, or other)
What types of wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt (production water)
Pit age (years): 35
Is the pit lined ☐ or unlined ☒
Type of liner (None, Synthetic, Clay): None
Is leak detection present: Yes ☐ No ☒
Is the pit netted: Yes ☐ No ☒
Pit dimensions (LxWxD): 63' X 29' X 3'

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

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

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

OIL CONSERVATION DIVISION

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

Permit No. H-64
(For Division Use Only)

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952 FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule 711(I)

Operator Name: Rice Engineering Corporation

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

Lease or Facility Name SWD Well F-29 Location F 29 18S 38E
Size of pit or tank: 63'x29'x3' deep, approx. 1000 bbls.
Ut. Ltr. Sec. Twp. Rge

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 such as major well remedial work.
Normally kept empty.

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

Method: Vacuum truck

Time: Within 24 hrs. 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 July 25, 1990

Printed Name S. A. Haktanir Telephone No. 393-9174

FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected 8/2/90

Inspected by Eddie W. Leary

Approved by _____

Title _____

Date _____

AUG 21 1990



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

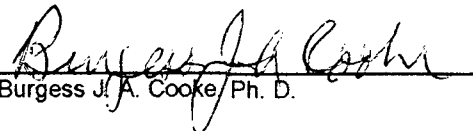
ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 06/16/99
Reporting Date: 06/17/99
Project Owner: RICE
Project Name: F-29
Project Location: NOT GIVEN

Sampling Date: 06/16/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		06/16/99	06/16/99	06/16/99	06/16/99	06/16/99	06/16/99
H4183-1	BOTTOM COMP.	<50	<50	<0.002	<0.002	<0.002	<0.006
H4183-2	SIDE COMP.	<50	<50	<0.002	<0.002	<0.002	<0.006
Quality Control		1557	1315	0.086	0.096	0.099	0.293
True Value QC		1600	1600	0.100	0.100	0.100	0.300
% Accuracy		97.3	82.2	86.1	96.2	99.0	97.8
Relative Percent Difference		2.5	5.3	1.6	5.5	4.6	4.1

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


Burgess J. A. Cooke, Ph. D.

6/17/99
Date

H4183BT.XLS

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4388

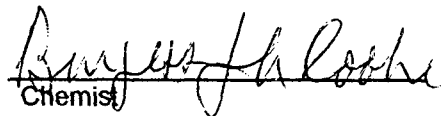
Receiving Date: 06/16/99
Reporting Date: 06/16/99
Project Owner: RICE
Project Name: F-29
Project Location: NOT GIVEN

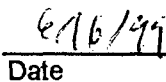
Analysis Date: 06/16/99
Sampling Date: 06/16/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4183-1	BOTTOM COMPOSITE	653
H4183-2	SIDE COMPOSITE	303
Quality Control		1325
True Value QC		1319
% Accuracy		100.5
Relative Percent Difference		1.5

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

Note: Analysis performed on 1:4 w:v aqueous extracts.


Chemist


Date

H4183CL.XLS

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ARDINAL LABORATORIES, INC.

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Page 1 of 1[illegible]

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4380

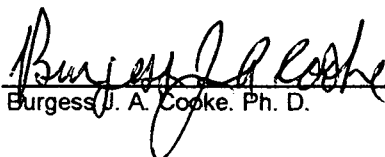
Receiving Date: 06/03/99
Reporting Date: 06/07/99
Project Number: NOT GIVEN
Project Name: RO F-29
Project Location: NOT GIVEN


Sampling Date: 06/03/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
------------	-----------	----------------------------	------------------------------	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	06/03/99	06/03/99	06/03/99	06/03/99	06/03/99	06/03/99	06/03/99
H4173-1	WEST SIDE EXC.	<10	143	<0.002	<0.002	<0.002	<0.006
H4173-2	EAST SIDE EXC.	<10	12	<0.002	<0.002	<0.002	<0.006
H4173-3	BOTTOM PIT	<10	<10	<0.002	<0.002	<0.002	<0.006
H4173-4	PIT SIDE 5 PT.	<10	<10	<0.002	<0.002	<0.002	<0.006
H4173-5	N. PIT SIDE	<10	953	<0.002	<0.002	<0.002	<0.006
Quality Control		794	866	0.094	0.104	0.100	0.297
True Value QC		800	800	0.100	0.100	0.100	0.600
% Accuracy		99.2	108	94.4	104	100	98.9
Relative Percent Difference		2.7	0.7	6.7	8.5	1.7	1.3

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


Burgess J. A. Cooke, Ph. D.


Date

H4173BT.XLS

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4380

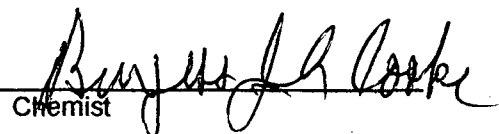
Receiving Date: 06/03/99
Reporting Date: 06/07/99
Project Number: NOT GIVEN
Project Name: RO F-29
Project Location: NOT GIVEN

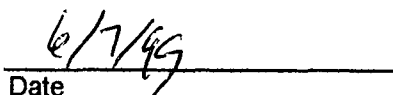
Analysis Date: 06/03/99
Sampling Date: 06/03/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H4173-1	WEST SIDE EXC.	1084
H4173-2	EAST SIDE EXC.	207
H4173-3	BOTTOM PIT	64
H4173-4	PIT SIDE 5 PT.	430
H4173-5	N. PIT SIDE	239
Quality Control		1345
True Value QC		1319
% Accuracy		102
Relative Percent Difference		8.9

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

NOTE: Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H4173CL.XLS

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ARDINAL LABORATORIES, INC.

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Page 7 of 7

Company Name: SESI		BILL TO		PO #:	
Project Manager: B. Allen		Company:			
Address: 703 E. Clinton Suite 103		Attn:			
City: Abbeville		Address:			
Phone #: 505-397-0510		City:			
Fax #: 505-393-4380		State:			
Project #:		Project Owner:		Zip:	
Project Name: RO F-29		Phone #:			
Project Location:		Fax #:			

LAB I.D.	Sample I.D.	MATRIX						PRES.	SAMPLING	DATE	TIME
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H4173-1	West Side Exc.			X						6-3	8:45
H4173-2	East Side Exc.			X						6-3	8:58
H4173-3	Bottom PIT			X						6-3	9:12
H4173-4	PIT Side 5pt			X						6-3	9:35
H4173-5	N. PIT Side			X						6-3	9:43

FOR LAB USE ONLY		(G) RAB OR (COMP.	# CONTAINERS		
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Sampler Relinquished: B. Allen Date: 6-3-99 Time: 10:15 AM	Received By: Jo Diane Potter Date: 6/3/99 Time:
---	---

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Checked By: (Initials) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	--

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Additional Fax #:	REMARKS: All samples were 5pt Composite Except NPIT side which was 2pt B. Allen R. Williams C. Thompson
---	--

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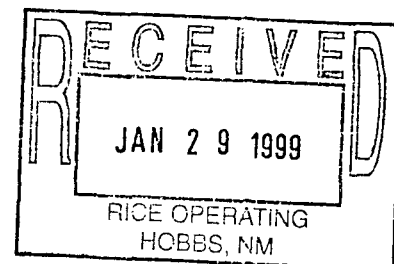
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F. WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 392-1471

Receiving Date: 01/26/99
Reporting Date: 01/27/99
Project Number: NOT GIVEN
Project Name: SWD WELL F-29
Project Location: NW/4-29-T19S-R38E, LEA CO. NM

Analysis Date: 01/27/99
Sampling Date: 01/26/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4005-1	EEB	791
H4005-2	MEB	443
Quality Control		1315
True Value QC		1319
% Recovery		100
Relative Percent Difference		4.4

METHOD: EPA 600/4-79-020,	325.3
---------------------------	-------



Amy Hill
Chemist

1/27/99
Date

H4005-1.XLS

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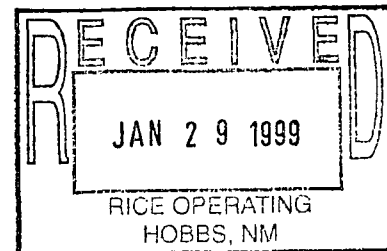
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ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F. WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 392-1471

Receiving Date: 01/26/99
Reporting Date: 01/27/99
Project Number: NOT GIVEN
Project Name: SWD WELL F-29
Project Location: NW/4-29-T19S-R38E, LEA CO. NM

Analysis Date: 01/26/99
Sampling Date: 01/26/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H4005-1	EEB	<10
H4005-2	MEB	23.4
Quality Control		2667
True Value QC		3000
% Recovery		88.9
Relative Percent Difference		1.7



METHOD: EPA SW-846 8015

Burgess FA Cooke
Chemist

1/27/99
Date

H4005-2.XLS

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: *Rice Operating Company*

Project Manager: *F. Wesley Root*

Address: *122 West Taylor*

City: *Hobbs* State: *NM* Zip: *88240*

Phone #: *(505)-393-9174*

Fax #: *(505)-392-1421*

Project #: *Project Owner: Rice Operating Co.*

Project Name: *SLUD WELLS F-29*

Project Location: *Mudly-29-7195-R38E, Lea Co. NM*

FOR LAB USE ONLY

BILL TO PO #:

Company: *Rice Operating Co.*

Attn: *F. Wesley Root*

Address: *122 W. Taylor*

City: *Hobbs*

State: *NM* Zip: *88240*

Phone #: *(505) 393-9174*

Fax #: *(505) 392-1421*

ANALYSIS REQUEST

LAB I.D.

Sample I.D.

(G)RAB OR (C)OMP. # CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID:
ICE / COOL
OTHER :

DATE TIME

TPH 3015M

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Sampler Relinquished:

Date: *1-26-99*

Received By:

V. Wesley Root

Time: *12:05*

Received By: (Lab Staff)

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sample Condition

CHECKED BY:

Sampler - UPS - Bus - Other:

Cool Intact

(Initials)

REMARKS:

Phone Result: ☐ Yes ☐ No Additional Fax #: ☐ Yes ☐ No

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.

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Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Rice Operating Company</u>										BILL TO		PO #:		ANALYSIS REQUEST																																					
Project Manager: <u>F. Wesley Root</u>																																																			
Address: <u>122 West Taylor</u>														Company: <u>Rice Operating Co.</u>																																					
City: <u>Hobbs</u>														Attn: <u>F. Wesley Root</u>																																					
Phone #: <u>(505)-393-9174</u>														Address: <u>122 W. Taylor</u>																																					
Fax #: <u>(505)-392-1421</u>														City: <u>Hobbs</u>																																					
Project #: _____														State: <u>NM</u> Zip: <u>88240</u>																																					
Project Name: <u>SWD Well F-29</u>														Phone #: <u>(505) 393-9174</u>																																					
Project Location: <u>NW14-29-T195-R3SE, Sec 4 Co. NM</u>														Fax #: <u>(505) 392-1421</u>																																					
FOR LAB USE ONLY																																																			
LAB I.D.										Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID:		ICE / COOL		OTHER :		DATE		TIME															
H4605-1										EEB		C 1		1																																					
-2										MEB		C 1		1																																					

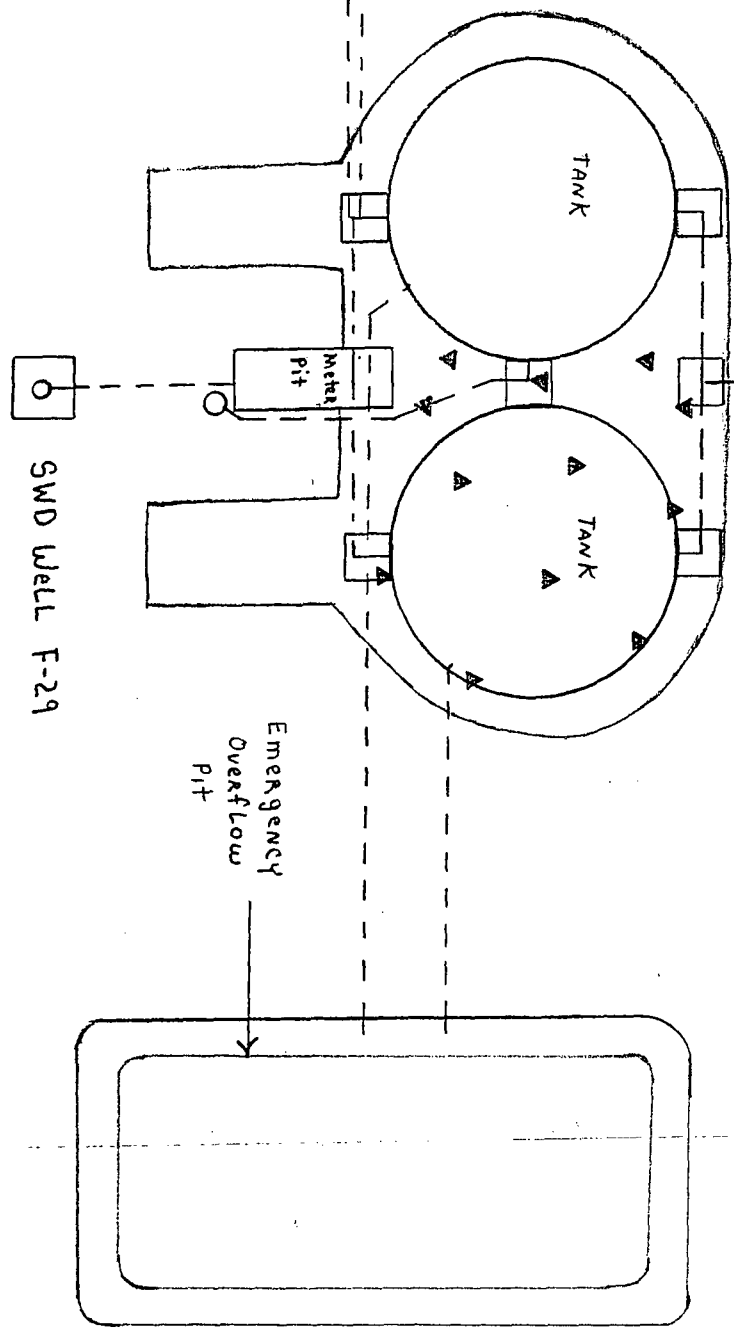
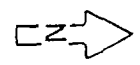
Sample Diagram
 SWD Well F-29
 SE/4 - NW/4 - 29 - T18S - R38E
 Lea County, NM

▼ - MEB = Composite Sample of Excavation
 Bottom @ 9.5'

▲ - EEB = Composite Sample of Excavation
 Bottom @ 10.5' - 11.5'

MEB collected at 1-26-99
 EEB collected at 1-26-99

Sampled by J. Winkley Root





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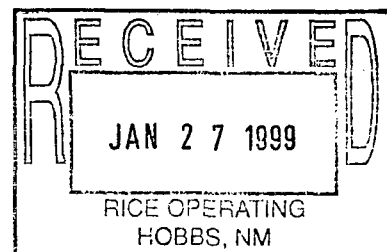
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: F. WESLEY ROOT
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/20/99
Reporting Date: 01/21/99
Project Owner: RICE OPERATING
Project Name: SWD WELL F-29
Project Location: NW/4-29-T19S-R38E, LEA CO, NM

Analysis Date: 01/20/99
Sampling Date: 01/18/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

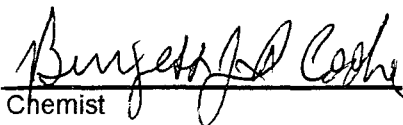
LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H4001-1	EBE	202*
H4001-2	EBM	298**
H4001-3	EBW	24
Quality Control		2667
True Value QC		3000
% Recovery		89
Relative Percent Difference		1.7



METHOD: EPA SW-846 8015

* Alkane Range: C12-C30

** Alkane Range: C11-C30


Chemist

1/21/99
Date

H4001-2.XLS

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: F. WESLEY ROOT
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/20/99

Reporting Date: 01/21/99

Project Owner: RICE OPERATING

Project Name: SWD WELL F-29

Project Location: NW/4-29-T19S-R38E, LEA CO, NM

Analysis Date: 01/20/99

Sampling Date: 01/18/99

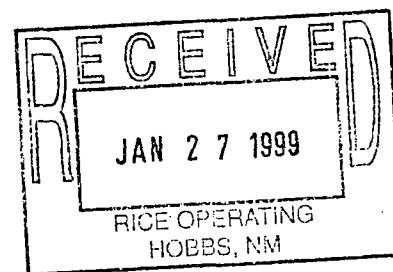
Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4001-1	EBE	1030
H4001-2	EBM	316
H4001-3	EBW	285
Quality Control		1315
True Value QC		1319
% Recovery		100
Relative Percent Difference		4.4
METHOD: EPA 600/4-79-020,		325.3



Bryant J. Coche
Chemist

1/21/99
Date

H4001-1.XLS

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RICE Operating Company
122 West Taylor
Hobbs, New Mexico 88240
Phone: 505-393-9174
Fax: 505-397-1471

ANALYSIS REPORT

FACILITY: Emergency Pit (Permit No. H-64)

DATE: January 20, 1999

SYSTEM: SWD Well F-29

LOCATION: SE/4-NW/4-29-T18S-R38E, Lea Co. NM

Sample ID	Date	Time	Headspace Reading (ppm)	Description
PBN	1-18-99	14:55	6	Composite of excavation bottom, north end of pit (3.5 feet below pit bottom)
PBS	1-18-99	15:00	3	Composite of trench bottom, south end of pit (3.5 feet below pit bottom)
PBC	1-18-99	15:05	<1	Composite of the material forming the bottom and sides of the pit

COMMENTS: _____

Organic vapor readings were obtained using the headspace procedure as described in Guidelines for Remediation of Leaks, Spills, and Releases, New Mexico Oil Conservation Division, August 13, 1993.

V. Wesley Root
Signature of Analyst



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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: F. WESLEY ROOT
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/20/99

Reporting Date: 01/21/99

Project Owner: RICE OPERATING

Project Name: SWD WELL F-29

Project Location: NW/4-29-T19S-R38E, LEA CO, NM

Analysis Date: 01/20/99

Sampling Date: 01/18/99

Sample Type: SOIL

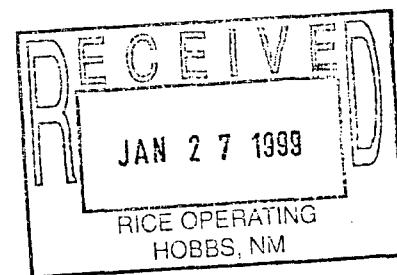
Sample Condition: COOL & INTACT

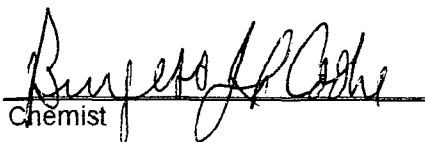
Sample Received By: AH

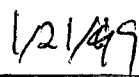
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4000-1	PBN	79
H4000-2	PBS	79
H4000-3	PBC	111
Quality Control		1315
True Value QC		1319
% Recovery		100
Relative Percent Difference		4.4

METHOD: EPA 600/4-79-020,	325.3
---------------------------	-------




Chemist


Date

H4000-1.XLS

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page _____ of _____

ANALYSIS REQUEST																																																																				
Company Name: Rice Operating Company Project Manager: F. Wesley Root Address: 122 West Taylor City: Hobbs State: NM Zip: 88240 Phone #: (505)-393-7174 Fax #: (505)-397-1471	PO #: BILL TO Company: Rice Operating Attn: F. Wesley Root Address: 122 W. Taylor City: Hobbs State: NM Zip: 88240 Phone #: (505)393-7174 Fax #: (505) 397-1471																																																																			
Project #: SWD Webb F-29 Project Owner: Rice Operating Project Location: NW/4-29-T19S-R38E, Lea Co. NM	Project Name: Sample I.D. Project #: H4000-1 Project #: -2 Project #: -3																																																																			
FOR LAB USE ONLY																																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">LAB I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="5">MATRIX</th> <th colspan="3">PRES.</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> <th rowspan="2">OTHER</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID</th> <th>ICE / COOL</th> </tr> <tr> <td>H4000-1</td> <td>PBN</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1-18-99</td> <td>14:55</td> <td></td> <td></td> </tr> <tr> <td>-2</td> <td>PBS</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1-18-99</td> <td>15:00</td> <td></td> <td></td> </tr> <tr> <td>-3</td> <td>PBC</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1-18-99</td> <td>15:05</td> <td></td> <td></td> </tr> </table>		LAB I.D.	Sample I.D.	# CONTAINERS	MATRIX					PRES.			DATE	TIME	OTHER	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID	ICE / COOL	H4000-1	PBN	1									1-18-99	14:55			-2	PBS	1									1-18-99	15:00			-3	PBC	1									1-18-99	15:05		
LAB I.D.	Sample I.D.				# CONTAINERS	MATRIX					PRES.					DATE	TIME	OTHER																																																		
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-2	PBS	1									1-18-99	15:00																																																								
-3	PBC	1									1-18-99	15:05																																																								
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.																																																																				
RECEIVED BY: F. Wesley Root Date: 1-20-99 Time: 10:05 Relinquished By: F. Wesley Root Date: 1-20-99 Time: 10:05 Delivered By: (Circle One) Sampler - UPS - Bus - Other:																																																																				
REMARKS:																																																																				

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



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

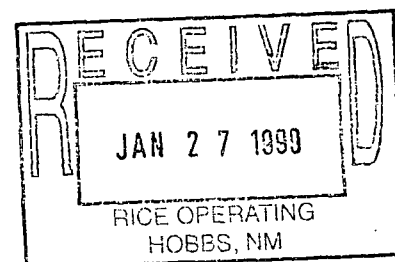
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: F. WESLEY ROOT
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/20/99
Reporting Date: 01/21/99
Project Owner: RICE OPERATING
Project Name: SWD WELL F-29
Project Location: NW/4-29-T19S-R38E, LEA CO, NM

Analysis Date: 01/20/99
Sampling Date: 01/18/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H4000-1	PBN	59.9
H4000-2	PBS	30.7
H4000-3	PBC	30.2
Quality Control		2667
True Value QC		3000
% Recovery		89
Relative Percent Difference		1.7



METHOD: EPA SW-846 8015

Burgess A. Eoshe
Chemist

1/21/99
Date

H4000-2.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.

ARDINAL LABORATORIES, INC.

22111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

Company Name: Rice Operating Company Project Manager: F. Wesley Root Address: 122 West Taylor City: Hebbes Phone #: (505)-393-7174 Fax #: (505)-397-1471 Project #: Project Owner: Rice Operating Project Name: SWD Well F-29 Project Location: NW14-29-T195-R38E, Lea Co. NM										BILL TO PO #: Company: Rice Operating Attn: F. Wesley Root Address: 122 W. Taylor City: Hebbes State: NM Zip: 88240 Phone #: (505)393-7174 Fax #: (505)397-1471										ANALYSIS REQUEST																													
LAB I.D.										Sample I.D.										TP# 8013 M																													
FOR LAB USE ONLY										MATRIX										PRES.										SAMPLING																			
LAB I.D.										WASTEWATER GROUNDWATER										SLUDGE OIL SOIL WASTEWATER										OTHER: ACID: ICE / COOL OTHER:										DATE TIME									
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-2										PBS										1-18-99										15:00																			
-3										PBC										1-18-99										15:05																			
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-3										PBC										1-																													

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

RICE Operating Company

From the desk of:

Carolyn Doran Haynes

⁶⁻²⁹⁻⁹⁹
RECEIVED

JUL 01 1999

Dear Wayne,

Environmental Bureau
Oil Conservation Division

Also Enclosed is the packet
of disposal manifests for F-29's
closure plan submittal - I
intended to include it with the
certified letter mailing of the
plan, but later found it still
on my desk. Sorry. Please
include it with the F-29 Plan
sent 6-25-99.

Hope all is going well with
the adjustment to Santa Fe living!
It's so beautiful there, what a
place to live!

Carolyn



Sundance Services, Inc.

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

No 18473

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO.:

#38

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content:

Description:

oily

(10 yds Backfill)

VOLUME OF MATERIAL ☐ BBLs.

☐ YARD

12 yds

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

RECEIVED
JUL 01 1999
Environment
Oil Conservation Division



Sundance Services, Inc.

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

Nº 18474

LEASE OPERATOR/SHIPPER/COMPANY: RICE

LEASE NAME: F-29-SWD

TRANSPORTER COMPANY: RAE TRUCKING

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 1002

DRIVER NO.: _____

CHARGE TO: RICE

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.: 4

☐ Other Material:

☐ BS&W Content: _____

Description: oily

10x10 Bch fill

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 AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: Harlan D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE: Donald Doshier
(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 18475

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: RDE TRUCKING

TIME: AM/PM

DATE: 2-19-99

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids 2

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content: _____

Description: city

20 yard Backfill

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.

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DRIVER: Lupe L. V.
(SIGNATURE)

FACILITY REPRESENTATIVE: Donald Doshier

(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 18479

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWA

TRANSPORTER COMPANY:

R&E Environmental

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO. #

38

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content:

Description:

oily dirt

10yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ :

☐ YARD *10* :

☐ _____

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.

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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

№ 18480

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29-JWD

TRANSPORTER COMPANY:

R+E Trucking Co.

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO.:

#1000

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*oily dirt**10yds Backfill*VOLUME OF MATERIAL ☐ BBLs. _____ :☐ YARD *10* :☐ _____

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.

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DRIVER:

(SIGNATURE)

X JOSE L. GAYTON

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

No 18481

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE: *2-19-99*

VEHICLE NO.:

1002

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*oily dirt**10yds Backfill*VOLUME OF MATERIAL ☐ BBLs.☐ YARD*10*☐

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.

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DRIVER:

Herman D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Holly Roach
(SIGNATURE)

Sundance Services, Inc.

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

No 18483

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R+E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 106

DRIVER NO.: _____

CHARGE TO: RICE

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.: 7

☐ Other Material:

☐ BS&W Content: _____

Description: oily dirt

20 yds Backfill

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.

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DRIVER: Lupe P.V.
(SIGNATURE)

FACILITY REPRESENTATIVE: Randy L. Robertson
(SIGNATURE)

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

No 18485

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F 29 - SWD

TRANSPORTER COMPANY:

R-E Trucking

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO.:

#38

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*oil/dirt**10 yds Backfill*VOLUME OF MATERIAL ☐ BBLs.☐ YARD*10*☐

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.

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DRIVER:

(SIGNATURE)

Baltazar Franco

FACILITY REPRESENTATIVE:

(SIGNATURE)

Nancy Smith

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 18486

LEASE OPERATOR/SHIPPER/COMPANY:

RICE

LEASE NAME:

F29 SWD

TRANSPORTER COMPANY:

R & E Trucking

TIME:

AM/PM

DATE:

2-19-99

VEHICLE NO.:

#1000

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content:

Description:

oily sludge

10yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ :

☐ YARD *10* :

☐ _____

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.

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DRIVER:

JOSE L. GAYTAN

(SIGNATURE)

FACILITY REPRESENTATIVE:

Kelly Roach

(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 18487

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29-SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE:

2-19-89

VEHICLE NO.:

#1002

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.:

#10

☐ Other Material:

☐ BS&W Content: _____

Description:

glycol

10 yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ :

☐ YARD *10* :

☐ _____

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.

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DRIVER:

Harken D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Kelly Roach
(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 18489

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R+E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 106 DRIVER NO.: _____CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water
☐ Tank Bottoms
☐ Other Material:☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____☐ Completion Fluids
☐ C-117 No.: 11Description: oily dirt20 yards BackfillVOLUME 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.

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DRIVER: Lupe L.V.
(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

No 18490

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE: 2-19-99

VEHICLE NO.: 1000

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 10☐ Other Material:☐ BS&W Content: _____

Description: oily dirt

10 yards Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ :☒ YARD 10 :☐ _____

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.

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DRIVER:

(SIGNATURE)

JOSE L. GAYTAN

FACILITY REPRESENTATIVE:

(SIGNATURE)

Randy L Robertson

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

Nº 18492

LEASE OPERATOR/SHIPPER/COMPANY: RICELEASE NAME: F-29 SWDTRANSPORTER COMPANY: R/E TRUCKING

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 38

DRIVER NO.: _____

CHARGE TO: RICE**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soilAC-117 No.: 13☐ Other Material:☐ BS&W Content: _____

Description: _____

10 YARD BackfillVOLUME OF MATERIAL ☐ BBLS. _____ : ☐ YARD 10 : ☐ _____

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.

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DRIVER: Balteson & Franco
(SIGNATURE)FACILITY REPRESENTATIVE: Donald Decker
(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 18493

LEASE OPERATOR/SHIPPER/COMPANY: RICELEASE NAME: F-295WDTRANSPORTER COMPANY: APE Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 1002 DRIVER NO.: _____CHARGE TO: RICE**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☒ C-117 No.: 14☐ Other Material:☐ BS&W Content: _____Description: oily dirt10 yard BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD 10 : ☐ _____

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.

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DRIVER: Harlan D. Farris
(SIGNATURE)FACILITY REPRESENTATIVE: Donald Doshier
(SIGNATURE)

Sundance Services, Inc.P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511N^o 18494LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R&E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 1000

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 13☐ Other Material:☐ BS&W Content: _____Description: city Dirt10 yard Back fillVOLUME OF MATERIAL ☐ BBLs. _____ : ☐ YARD 10 : ☐ _____

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.

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DRIVER: JOSE L. GAYTAN

(SIGNATURE)

FACILITY REPRESENTATIVE: Donald R Ooster

(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 18495

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R+E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 106

DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.: 16

☐ Other Material:

☐ BS&W Content: _____

Description: city Dirt

20 yards Backfill

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.

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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 18496

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 38

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: 17☐ Other Material:☐ BS&W Content: _____Description: oil/dirt10 yards BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: Baltes & Francis
(SIGNATURE)FACILITY REPRESENTATIVE: Randy L. Robertson
(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 18498

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29-SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 1000

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: 18☐ Other Material:☐ BS&W Content: _____Description: oily dirt10 yds BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : 4 YARD 10 : ☐ _____

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.

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DRIVER: JOSE L. GAYTAN

(SIGNATURE)

FACILITY REPRESENTATIVE: Randy L. Robertson

(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) 394-2511N^o 18499LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-19-99 VEHICLE NO.: 38 DRIVER NO.: _____CHARGE TO: Riche**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 19☐ Other Material:☐ BS&W Content: _____Description: city dirt10 yds BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : [☒ YARD 10 : ☐ _____

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.

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DRIVER: Baltazar J. Franco
(SIGNATURE)FACILITY REPRESENTATIVE: Randy L. Robertson

(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 18500

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*LEASE NAME: *F-29 SWD*TRANSPORTER COMPANY: *R-E Trucking*

TIME: AM/PM

DATE: *2-19-99*VEHICLE NO.: *106*

DRIVER NO.:

CHARGE TO: *Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: *20*☐ Other Material:☐ BS&W Content: _____Description: *oily dirt**20 yds Buckfill*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.

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DRIVER: *Leopoldo L. V.*
(SIGNATURE)FACILITY REPRESENTATIVE: *Randy L. Robertson*

(SIGNATURE)

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

No 18506

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 ~~SWD~~ SWDTRANSPORTER COMPANY: R.E. Trucking

TIME: AM/PM

DATE: 2-22-99VEHICLE NO.: 38

DRIVER NO.:

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: #22☐ Other Material:☐ BS&W Content: _____Description: oily dirt10yds back fillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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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 18507

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R.E. Trucking

TIME: AM/PM

DATE: 2-22-89 VEHICLE NO.: 1002 DRIVER NO.:CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: #23☐ Other Material:☐ BS&W Content: _____Description: oily dirt10 yds back fillVOLUME OF MATERIAL ☐ BBLs. : 10 : ☐ YARD 10 : ☐

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.

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DRIVER: Harlan D. Farris

(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) 394-2511N^o 18508LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R.E. Trucking

TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: 106 DRIVER NO.:CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☐ C-117 No.: #21☐ Other Material:☐ BS&W Content: _____Description: oil & dirt20 yds backfillVOLUME OF MATERIAL ☐ BBLs. _____ : 11 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.

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DRIVER: Lupe L. V.
(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

No 18509

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: R.E. Trucking

TIME: AM/PM

DATE: 2-22-99 VEHICLE NO.: 1000

DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.: #24

☐ Other Material:

☐ BS&W Content: _____

Description: oily dirt

10 yds backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: Luis & Mondes
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

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

Sundance Services, IncP.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

No 18511

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SudTRANSPORTER COMPANY: R. E. Trucking

TIME: _____ AM/PM

DATE: 9-22-99

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 25☐ Other Material:☐ BS&W Content: _____Description: oily Dirt10 yds BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : _____ ☐ _____

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.

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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 18513

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-22-99VEHICLE NO.: 1000

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 27☐ Other Material:☐ BS&W Content: _____Description: oily Dirt10 yards BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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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 18514

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R.E. Trucking

TIME: " " AM/PM

DATE: 2-22-99 VEHICLE NO.: 1002

DRIVER NO.:

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 28☐ Other Material:☐ BS&W Content: _____Description: Dirty Dirt10 yds BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: Harlan D. Farris
(SIGNATURE)FACILITY REPRESENTATIVE: Randy L. Robertson

(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 18516

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWIDTRANSPORTER COMPANY: R. Environmental

TIME: AM/PM

DATE: 2-22-99VEHICLE NO.: #83

DRIVER NO.:

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated soil☒ C-117 No. #29☐ Other Material:☐ BS&W Content: _____Description: Oil/dirt10 yards BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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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

Nº 18517

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R. E. Trucking

TIME: AM/PM

DATE: 2-22-99 VEHICLE NO.: 1000

DRIVER NO.:

CHARGE TO: Rice**TYPE OF MATERIAL**

- ☐ Production Water
☐ Tank Bottoms
☐ Other Material:

- ☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____

- ☐ Completion Fluids # 30
☐ C-117 No.: _____

Description: oily Dirt10 yard BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER: Luis L M
(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

No 18519

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWPTRANSPORTER COMPANY: R.E Trucking TIME: _____ AM/PMDATE: 2-22-99 VEHICLE NO.: 106 DRIVER NO.: _____CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water
☐ Tank Bottoms
☐ Other Material:☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____☐ Completion Fluids
☒ C-117 No.: 26Description: Oily Dirt20 yds BackfillVOLUME 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.

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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 18521

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: RE Tracking

TIME: AM/PM

DATE: 2-22-99 VEHICLE NO.: 1002 DRIVER NO.:CHARGE TO: Rice**TYPE OF MATERIAL**

- ☐ Production Water
☐ Tank Bottoms
☐ Other Material:

- ☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____

- ☐ Completion Fluids
☐ C-117 No.: 32

Description: oily dirt10 yards BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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.

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DRIVER:

Harlan D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Randy L. Robertson
(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 18523

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-22-99VEHICLE NO.: 106

DRIVER NO.: _____

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 31☐ Other Material:☐ BS&W Content: _____Description: oily dirt20 yards BackfillVOLUME 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.

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DRIVER: Lupe L. V.
(SIGNATURE)FACILITY REPRESENTATIVE: Donald Deakin

(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 18524

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29 SWDTRANSPORTER COMPANY: R-E Trucking

TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: 1000 DRIVER NO.: _____CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.: 33☐ Other Material:☐ BS&W Content: _____Description: oily dirt10 yards BackfillVOLUME OF MATERIAL ☐ BBLs. _____ : 4 YARD 10 : ☐ _____

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.

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DRIVER: Luis J. Mendez
(SIGNATURE)FACILITY REPRESENTATIVE: Randy L. Robertson
(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 18525

LEASE OPERATOR/SHIPPER/COMPANY: RiceLEASE NAME: F-29-SWDTRANSPORTER COMPANY: R & E Trucking

TIME:

AM/PM

DATE: 2-22-99VEHICLE NO.: # 34

DRIVER NO.:

CHARGE TO: Rice**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content: _____Description: oily dirt10yds BackfillVOLUME OF MATERIAL ☐ BBLs. _____ :☐ YARD 10 :☐ _____

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.

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DRIVER: Balteson 3 Francis

(SIGNATURE)

FACILITY REPRESENTATIVE: Randy L Robertson

(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 18526

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29 - SWD

TRANSPORTER COMPANY:

RSE

TIME:

AM/PM

DATE:

2-22-99

VEHICLE NO.:

1002

DRIVER NO.:

CHARGE TO:

Rice

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☒ Contaminated soil

☐ C-117 No.:

35

☐ Other Material:

☐ BS&W Content:

Description:

oily dirt

10 yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ :

☐ YARD

1044

☐ _____

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DRIVER:

Harlan D. Farris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Kelly Rood
(SIGNATURE)

Sundance Services, Inc.

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

N2 18527

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29 SWD

TRANSPORTER COMPANY: Rice Trucking TIME: _____ AM/PM

DATE: 2-22-99 VEHICLE NO.: 106 DRIVER NO.: _____

CHARGE TO: Rice

TYPE OF MATERIAL

☐ Production Water
☐ Tank Bottoms
☐ Other Material:

☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____

☐ Completion Fluids
IXC-117 No.: 56

Description: oil/gel/lt

VOLUME OF MATERIAL ☐ BBLs. _____ : 14 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.

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DRIVER:

[Signature]
(SIGNATURE)

FACILITY REPRESENTATIVE:

[Signature]
(SIGNATURE)

Sundance Services, Inc.

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

NE 18528

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *F-24 SUD*

TRANSPORTER COMPANY: *Rice Trucking*

DATE: *2-22-95* VEHICLE NO.: *1000*

CHARGE TO: *Rice*

TYPE OF MATERIAL

- ☐ Production Water
☐ Tank Bottoms
☐ Other Material: *Allydrit*
- ☐ Drilling Fluids
☒ Contaminated soil
☐ BSAW Content: *57*
- ☐ Completion Fluids
☒ C-117 No.: *57*

Description: *Allydrit*

VOLUME OF MATERIAL ☐ BBLs. *14* YARD *20* : ☐

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DRIVER: *Chris F M*
(SIGNATURE)

FACILITY REPRESENTATIVE: *Steve S. O'Neil*
(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 18531

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*

LEASE NAME: *F-24 SUD*

TRANSPORTER COMPANY: *Rice Trucking*

DATE: *2-22-95* VEHICLE NO.: *1000*

CHARGE TO: *Rice*

TYPE OF MATERIAL

- ☐ Production Water
☐ Tank Bottoms
☐ Other Material: *Allydrit*
- ☐ Drilling Fluids
☒ Contaminated soil
☐ BSAW Content: *50*
- ☐ Completion Fluids
☒ C-117 No.: *50*

Description: *Allydrit*

VOLUME OF MATERIAL ☐ BBLs. *14* YARD *20* : ☐

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DRIVER: *Chris F M*
(SIGNATURE)

FACILITY REPRESENTATIVE: *Steve S. O'Neil*
(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 18529

LEASE OPERATOR/SHIPPER/COMPANY:

Rice

LEASE NAME:

F-29-SWD

TRANSPORTER COMPANY:

R+E Trucking

TIME:

AM/PM

DATE:

2-22-99

VEHICLE NO.:

#1002

DRIVER NO.:

CHARGE TO:

*Rice***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☒ Contaminated soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*oily dirt**10 yds Backfill*VOLUME OF MATERIAL ☐ BBLs. _____ :☐ YARD *10* :☐ _____

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DRIVER:

Harland D. Ferris
(SIGNATURE)

FACILITY REPRESENTATIVE:

Henry S. Duff
(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 18530

LEASE OPERATOR/SHIPPER/COMPANY: Rice

LEASE NAME: F-29-SWD

TRANSPORTER COMPANY: R.E. Environmental

TIME: AM/PM

DATE: 2-22-99 VEHICLE NO.: #38

DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL

- ☐ Production Water
☐ Tank Bottoms
☐ Other Material:

- ☐ Drilling Fluids
☒ Contaminated soil
☐ BS&W Content: _____

- ☐ Completion Fluids
☒ XC-117 No.: #40

Description: oil/gel/it

10 yds Backfill

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 10 : ☐ _____

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DRIVER: Balton J. Farned
(SIGNATURE)

FACILITY REPRESENTATIVE: Kelly Roach
(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

NM 18532

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*LEASE NAME: *F-25-SWD*TRANSPORTER COMPANY: *R & E Environmental* TIME: AM/PMDATE: *2-22-95* VEHICLE NO.: *#106* DRIVER NO.:CHARGE TO: *Rice***TYPE OF MATERIAL**

- ☐ Production Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☒ Contaminated soil ☒ C-117 No.: *#49*
☐ Other Material: ☐ BS&W Content: _____

Description: *Oil/Water*VOLUME OF MATERIAL ☐ BBLs. : *14* YARD *20* : ☐

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DRIVER: *John D. [Signature]*
(SIGNATURE)FACILITY REPRESENTATIVE: *Steve [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

NM 18533

LEASE OPERATOR/SHIPPER/COMPANY: *Rice*LEASE NAME: *F-26-SWD*TRANSPORTER COMPANY: *R & E Environmental* TIME: AM/PMDATE: *2-22-95* VEHICLE NO.: *1002* DRIVER NO.:CHARGE TO: *Rice***TYPE OF MATERIAL**

- ☐ Production Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☒ Contaminated soil ☒ C-117 No.: *#42*
☐ Other Material: ☐ BS&W Content: _____

Description: *Oil/Water*VOLUME OF MATERIAL ☐ BBLs. : *14* YARD *10* : ☐

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.

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DRIVER: *John D. [Signature]*
(SIGNATURE)FACILITY REPRESENTATIVE: *Steve [Signature]*
(SIGNATURE)White-Sundance Canary-Sundance Act#1 Pink-Sundance Act#2 Gold-Transporter
Revised 12/27/95



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

May 22, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z 357 870 128

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

Re: Closure Plan for Below-Ground Redwood Tank Excavation and Emergency Overflow Pit (H-64) at
SWD F-29
SW/4 Sec 29-Ts18s-R38e
Lea County, NM

Dear Ms. Haynes:

Per our telephone conversations on May 12, 1999 The New Mexico Oil Conservation Division (NMOCD) understands that Rice Operating Company's (ROC) previous submittals were actually closure plans for NMOCD approval rather than request for closure, plus the fact that ROC does not intend to have a sub-surface vault design at this location. The NMOCD apologizes for this mis-communication and understands that both the Below-Ground Redwood Tank Excavation and Emergency Overflow Pit (H-64) will be one project since they are on the same contiguous site.

In order to properly evaluate ROC's request the NMOCD requires the additional information for the two closure plans listed below:

Emergency Overflow Pit (H-64):

1. Previous samples appeared to have been collected three feet below the bottom of the excavated pit. OCD considers this valuable information in demonstrating vertical extent, but will require actual sidewall and bottom samples to demonstrate the remaining levels of contaminants.

Therefore ROC is required to sample, test, and provide to NMOCD the analytical results for each side wall and bottom of the 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 per approved EPA methods and procedures.

2. 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.

Ms. Haynes: Z 357 870 128
May 22, 1999
Page 2

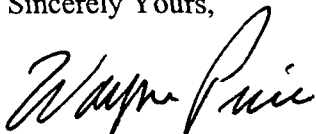
Below-Ground Redwood Tank Excavation:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Rice Operating Company's (ROC) letter dated March 17, 1999 requesting approval to install a liner to prevent future infiltration from leaching remaining vadose zone water contaminants into under-lying shallow ground water. In order to properly evaluate ROC's request the NMOCD requires the following information:

1. Please provide a topographic plot plan drawing of the site defining the areal extent of the contamination and vertical cross-sections showing the isoconcentration values of the remaining contaminants i.e. BTEX, TPH and Chlorides in the vadose zone. Please calculate the estimated remaining mass of these contaminants and report this value in pounds (lbs).
2. Please provide to NMOCD the engineering data sheets or product bulletins for the proposed liner. Please provide the engineering design, the effective life of the liner, installation drawing and selection criteria for the liner.
3. Please explain how ROC will address lateral migration of moisture under the liner. NMOCD's concern is that possible horizontal infiltration (absorption) may occur due to moisture run-on/off.
4. Please provide a plan describing how the buried liner and contaminated soils below the liner will be protected in the foreseeable future. Please include a plan as to how future owners of the property will be advised of the buried material, i.e. deed recording, permanent markers, etc. Please provide proof of ownership of the property.
5. Please include a groundwater sampling plan describing how ROC will monitor the groundwater in order to ensure that remaining contaminants will not cause the groundwater standards to be exceeded in the foreseeable future.

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

your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

wp

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

RICE OPERATING CO.
122 WEST TAYLOR
HOBBS, NM 88240

ATTN: CAROLYN HAYNES

5. Received By: (Print Name)

Beagle Skate

6. Signature: (Addressee or Agent)

X Beagle Skate

4a. Article Number

Z 357 870 128

4b. Service Type

- | | |
|---|---|
| <input checked="" type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

5/26

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box • *wp*

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

F-29
H-64





NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

May 5, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z 559 573 594

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

Re: Closure Plan Below-Ground Redwood Tank Excavation
SWD F-29
SW/4 Sec 29-Ts18s-R38e
Lea County, NM

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Rice Operating Company's (ROC) letter dated March 17, 1999 and letter dated April 23, 1999 concerning the above captioned facility requesting approval to install a liner and subsurface vault to prevent future infiltration from leaching remaining vadose zone water contaminants into under-lying shallow ground water. The March 17, 1999 report revealed volatile organics (OVM) and TPH levels remaining in the vadose zone exceeding the values allowed in the guidelines, **therefore ROC's request is hereby denied.**

ROC shall submit a plan for NMOCD approval addressing how the remaining water contaminants in the vadose zone will be remediated. NMOCD requires submittal by June 25, 1999.

NMOCD defers commit at this time on the subsurface vault design. NMOCD Environmental Bureau will be evaluating this issue to determine if a Rule 711 permit is required.

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
Martyne Kieling-OCD SF

TELE CON:

5/12/99

WP, RA, BO WITH CHAYNES!

F-29 NOT TO BE CLOSED
BY GENERIC PLAN!

OCD WILL ISSUE REQUEST
FOR ADDITIONAL INFORMATION!

CALLER BACK 5/12/99 2:40 PM
WILL INCLUDE H-64 PIE ALSO!

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

RICE OPERATING CO.
122 WEST TAYLOR
HOBBS, NM 88240
ATT: CAROLYN HAYNES

4a. Article Number

Z 559 573 594

4b. Service Type

- | | |
|---|---|
| <input checked="" type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

5/10/94

5. Received By: (Print Name)

Carolyn Haynes

6. Signature: (Addressee or Agent)

X [Signature]

8. Addressee's Address (Only if requested and fee is paid)

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WP
SWDF-29

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



RICE *Operating Company*

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

RECEIVED

APR 2 1999

Environmental Bureau
Oil Conservation Division

March 17, 1999

Ms. Donna Williams
State of NM Energy and Minerals Dept.
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Re: Closure Plan: Emergency Pit and Below-Ground Redwood Tank Excavation, SWD F-29
SW/4, S29, T18S, R38E, Lea County, NM

Dear Ms. Williams:

On January 25, and February 19, 1999, Rice Operating Company applied for closure of the Emergency Pit at the above referenced location and was informed in a telephone conversation with you and a separate telephone conversation with Mr. Wayne Price (Feb 23, 1999) that the redwood tank excavation site had to be included in the Emergency Pit Closure request. Because the Emergency Pit has already been revised and re-submitted for closure (February 19), this plan includes only the redwood tank site.

Rice Operating Company prepared a work plan to determine the vertical extent of TPH and chloride impact to the vadose zone at the redwood tank excavation. On March 6, 1999, the chloride concentration of soil was delineated in the vadose zone that was directly beneath the redwood tanks (removed January, 1999.) The Hobbs District I Office of OCD was notified 48 hours in advance, and Mr. Wayne Price visited the site to witness boring, sampling, and testing operations while in progress.

The ground water in this area was determined by this boring to be 50 feet from surface grade. Attached are the March 6, 1999, drilling logs with applicable subsurface lithology, analyticals, and remarks. The total boring depth was 36 feet for the East boring and 50 feet for the West boring. Chlorine levels in the soil boring samples were field tested as were OVM levels. Chlorides, TPH, BTEX were tested at Cardinal Laboratory for both soils and groundwater. Laboratory results and chains-of-custody are attached.

The chlorides and BTEX levels of the groundwater indicate that the groundwater has not been adversely impacted by the migration of salt water. However the West area vadose zone contains a high level of TPH (3660ppm) within 10 feet of groundwater. Chlorides are <250ppm at 10 feet above groundwater. The East area of the excavation tested <100ppm TPH and <250ppm Chlorides 20 feet above groundwater. Results are summarized below.

Table 1: Facility F-29 Analytical Results in PPM of Boring Sampling March 5, 1999

SAMPLE ID	DEPTH	OVM	CHLORIDE		TPH
			FIELD	LAB	
West BH B-1	40-41 feet	1125	440	206	3660
West BH B-1	45-46 feet	61	150	158	70.8
East BH B-2	30-31 feet	41	275	95	48.0
East BH B-2	35-36 feet	33	100	63	465*
East BH B-2	35.5 feet				117
Groundwater	50 feet		150	194	BTEX<10

*This value is believed to be an anomaly. A reserve sample at 35' was tested for confirmation.

The boring in the West area of the excavation was cased and developed in order to test the groundwater. The East boring was filled with bentonite. ~ ?

Recommendation for Risk Assessment:

Considering the concentration of TPH and chlorides in the vadose zone:

- A. > 250ppm chlorides and > 100ppm TPH within 50 feet of groundwater
- B. Normal rainfall level could conceivably afford the possibility of chlorides and TPH leaching into the groundwater during the next 10,000 years.
- C. Rice Operating proposes to eliminate the progression of moisture and therefore chlorides and TPH to groundwater by installing a buried, impervious layer of 40-mil polyethylene fabric over the affected area (90' X 65'). The ground under the fabric will be padded with rock-free sand and graded to allow moisture flow away from the area.
- D. The liner will be covered and packed with a layer of rock-free sand, and then the excavation will be backfilled with clean caliche.
- E. The surface above the liner will be defined by concrete markers at the center and corners, with an identification etched in the center marker.
- F. The completed well in the West area of the excavation will be regularly tested to monitor the Chloride and TPH levels of the ground water.

Rice Operating Company submits this additional information pursuant to NMOCD's request and petitions for closure plan approval for the facility at F-29. Attached is a copy of the February 19, 1999 Emergency Pit Closure request made by F. Wesley Root, including the previously submitted analytical data.

If this closure plan is acceptable, the impenetrable layer will be installed and then the Pit Remediation and Closure form will be completed and submitted. No further work will be performed at this site until the NMOCD responds to this request. This facility is located on a well-traveled road and is highly visible. Rice Operating appreciates timely consideration in this matter.

If you have any questions, please call.



Carolyn Doran Haynes
Operations Engineer





Enclosures: Drilling Log
Laboratory Results and Chains-of-Custody
Pit Inventory Form

Cc: KH, file

DRILLING LOG	Site Name / Location	Well No.	Date Drilled:	Driller:	Logged by:
		B-1	3-5-96	C. Harrison	FWR
RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471	SWD Facility F-29 29-T18S-R38E Lea Co. New Mexico	Well Depth:	Boring Depth:	Well Material:	Construction: Grouted Bentonite plug
		60'	60'	Sch 40 PVC	
		Casing Length:	Boring Diameter:	Casing Size:	
		30'/40' GS	6"	2"	
		Screen Length:	Drilling Method:	Slot Size:	
		20'	Air Rotary	0.02" FS	


DEPTH (Feet)	SUBSURFACE LITHOLOGY	Sample Type	OVM (ppm)	REMARKS	Boring
10	Bottom of Excavation at 10' BGS				
11	Gray- brown, fine-grained, calcareous sand (caliche)				
12	Indurated light brown calcareous sand (caliche)				
13					
14					
15	Light brown calcareous sand (caliche)	Split-Spoon	242	• Chloride – 800 ppm	
16					
17					
18					
19					
20		Split-Spoon	452	• Chloride – 800 ppm	
21					
22					
23					
24					
25		Split-Spoon	456	• Chloride – 1700 ppm	
26					
27					
28					
29	Indurated siliceous sandstone				
30					
31	Light red-brown calcareous sand (SM)	Split-Spoon	241	• Chloride – 700 ppm	
32					
33					
34					
35	Light gray limestone interbedded with sand stringers	Split-Spoon	549		
36					
37					
38					
39	Brown fine grain slightly calcareous sand			• Chloride – 440 ppm ♦ Chloride – 206 ppm ♦ TPH – 3660 ppm	
40		Split-Spoon	1125		
41					
42					
43	Sand interbedded w/ gray limestone stringers			• Chloride – 150 ppm ♦ Chloride – 158 ppm ♦ TPH – 70.8 ppm	
44					
45		Split-Spoon	61		
46					
47	Brown fine grain slightly calcareous sand (SM)			DTW 50' @ 15:30	
48					
49					
50		Split-Spoon	4		

- Field Test
- ♦ Laboratory Result

-  Cement Grout
-  Bentonite Seal
-  Sand Pack
-  0.02 Screen

DRILLING LOG	Site Name / Location	Well No. B-2	Date Drilled: 3-5-99	Driller: C. Harrison	Logged by: FWR
	RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471	SWD Facility F-29 29-T18S-R38E Lea Co. New Mexico	Well Depth:	Boring Depth: 36'	Well Material:
			Casing Length:	Boring Diameter: 6"	Casing Size:
			Screen Length:	Drilling Method: Air Rotary	Slot Size:
Construction: Plugged with Bentonite					

DEPTH (Feet)	SUBSURFACE LITHOLOGY	Sample Type	OVM (ppm)	REMARKS	Boring
10	Bottom of Excavation at 10' BGS				
11	Light Gray silty caliche				
12					
13					
14					
15		Split-Spoon	443		
16					
17					
18					
19					
20	Light gray calcareous sand (caliche) Silty, fine grained	Split-Spoon	236		
21					
22					
23					
24					
25		Split-Spoon	371		
26					
27					
28					
29					
30	Light red-brown calcareous sand (SM) Fine grained.	Split-Spoon	41	• Chloride – 275 ppm ♦ Chloride – 95 ppm ♦ TPH – 48 ppm	
31					
32					
33					
34					
35		Split-Spoon	33	• Chloride – 100 ppm ♦ Chloride – 63 ppm ♦ TPH – 117 ppm	
36					
37	Bottom of boring at 36' BGS				
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					

• Field Test
 ♦ Laboratory Result
 Bentonite Seal



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

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

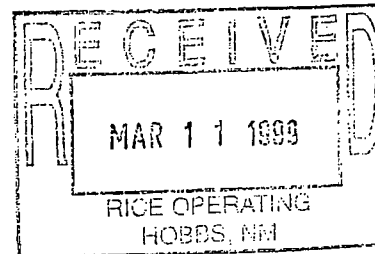
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F. WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 03/08/99
Reporting Date: 03/09/99
Project Number: NOT GIVEN
Project Name: SWD WELL F-29
Project Location: 29-T195-R38E, LEA CO. NM

Sampling Date: 03/05/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE:		03/08/99	03/08/99
H4049-1	B-1 (40-41')	3660	206
H4949-2	B-1 (45-46')	70.8	158
H4049-3	B-2 (15-16')	10400	665
H4049-4	B-2 (30-31')	48.0	95
H4049-5	B-2 (35-36')	465	63
Quality Control		244	1335
True Value QC		240	1319
% Recovery		102	101
Relative Percent Difference		3.2	1.5
METHODS: EPA 600/4-79-02		418.1	325.3

*Analyses performed on 1:4 w:v aqueous extracts.



Burgess J. A. Cade
Chemist

3/19/99
Date

H4049-1.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.



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

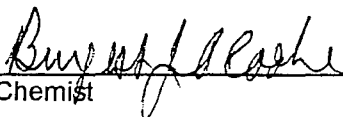
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F.WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/05/99
Reporting Date: 03/06/99
Project Owner: RICE OPERATING
Project Name: SWD F-29
Project Location: 29-T18S-R38E, LEA CO., NM

Sampling Date: 03/05/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		03/05/99	03/05/99	03/05/99	03/05/99	03/05/99
H4046-1	B-1	194	<0.002	<0.002	<0.002	<0.006
Quality Control		1335	0.089	0.095	0.092	0.276
True Value QC		1319	0.100	0.100	0.100	0.300
% Recovery		101	88.9	94.6	91.5	92.0
Relative Percent Difference		1.5	3.5	4.6	4.0	5.1

METHODS: Cl⁻ - Std. Methods 4500-Cl⁻B; BTEX - EPA SW-846 8260


Chemist

3/6/99
Date

H4046.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.

ARDINAL LABORATORIES, INC.

22111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

[illegible]

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

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
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 NM 88240
Phone Number: (505) 393-9174
Previous Operator(s): Hobbs Salt Water Disposal System
Is the pit permitted: Yes ☐ No ☒
Unit Letter: F Section: 29 Township: 18S Range: 38E
County: Lea
Location Name: Rice Operating Company Salt Water Disposal F-29 Well
Number of wells to the pit: Truck terminal (varies)
Are the wells to the pit operated by one operator ☒ or multiple operators ☐
Total daily volume (in barrels) to the pit: 1,000
Pit Type: 2 - below ground Redwood terminal tank
(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 test)
Pit age (years): 30
Is the pit lined ☒ or unlined ☐
Type of liner (None, Synthetic, Clay): Redwood tanks 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): 28" dia x 8" 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: 10/31/97

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
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

Phone Number: (505) 393-9174

Previous Operator(s): Hobbs Salt Water Disposal System

Is the pit permitted: Yes ☒ No ☐

Unit Letter: F Section: 29 Township: 18S Range: 38E

County: Lea County

Location Name: F-29 Salt Water Disposal System Well

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): 35

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): 63' X 29' X 3'

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

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

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

OIL CONSERVATION DIVISION

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

Permit No. H-64
(For Division Use Only)

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952
FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule 711(T)

Operator Name: Rice Engineering Corporation

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

Lease or Facility Name SWD Well F-29 Location F 29 18S 38E
Ut. Ltr. Sec. Twp. Rge

Size of pit or tank: 63'x29'x3' deep, approx. 1000 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 such as major well remedial work.
Normally kept empty.

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

Method: Vacuum truck

Time: Within 24 hrs. 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 July 25, 1990

Printed Name S. A. Haktanir Telephone No. 393-9174

FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected 8/2/90

Inspected by Eddie W. Leary

Approved by _____

Title _____

Date AUG 21 1990

RICE Operating Company

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

February 19, 1999

Ms. Donna Williams
State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Re: Closure Plan
Emergency Overflow Pit (Permit No. H-64)
Salt Water Disposal Well No. F-29
Southwest 1/4, Section 29 of T18S R38E, Lea County, New Mexico

Ms. Williams:

Rice Operating Company (Rice) requests that the New Mexico Oil Conservation Division (OCD) approve this closure plan for the emergency overflow pit located at the above listed facility. The pit will be closed in accordance with the conditions specified in your letter dated February 4, 1999 and the Unlined Surface Impoundment Closure Guidelines published by the OCD.

Target Chloride Level

Based on conversations with Mr. Roger Anderson, Environmental Bureau Chief, OCD, it is Rice's understanding that a target level of 250 ppm (mg/l) has been established for delineation of chloride impact to the vadose zone as a result of operations regulated by the OCD.

Determination of General Site Characteristics

A field survey of the pit and surrounding area was conducted to determine the wellhead protection area and distance to the nearest surface water body.

No private domestic water source was identified within 200 feet of the pit.

No water wells were identified within 200 feet of the pit.

No surface bodies of water or groundwater discharge sites (seeps, springs, marshes, or swamps) were identified within 1,000 feet of the pit.

Depth to ground water at the site is estimated to be 45 feet below ground surface based on information obtained from the New Mexico State Engineers Office in Roswell, New Mexico.

Soil Remediation Levels

The total ranking score and corresponding recommended soil remediation levels pursuant to Section II A of the Closure Guidelines are as follows:

CRITERIA	APPLICABLE STANDARD	SCORE
Depth to ground water	Less than 50 feet	20
Well head protection	Greater than 1,000 feet from water source	0
	Greater than 200 feet from private water source	
Surface water bodies		0
TOTAL RANKING SCORE		20

ANALYTICAL PARAMETER	REMEDIATION LEVEL
Benzene	10 ppm*
BTEX (benzene, toluene, ethylbenzene, and xylenes)	50 ppm*
TPH (total petroleum hydrocarbon)	100 ppm**
* A field soil vapor headspace measurement of 100 ppm may be substituted for laboratory analysis of the benzene and BTEX concentration limits pursuant to Section II.B.1, Closure Guidelines	
** TPH Remediation Level = 100 ppm plus background concentration	

Initial Assessment

The emergency pit was visually inspected for evidence of hydrocarbon impact. A small area in the north end of the pit exhibited moderate surface staining. The stained area was excavated and the soil was staged on location pending transport to an OCD permitted facility for disposal.

Three soil samples were collected to verify that the emergency pit meets the remediation levels. The samples were split into two portions. One portion was field screened for soil vapor headspace using a HNU DL-101 photoionizer detector (PID) pursuant to Section II.B.1 of the closure guidelines. The remaining sample portion was submitted to Cardinal Laboratories for TPH analysis using EPA Method 8015M. In addition, the samples were analyzed for chloride concentrations using EPA Method 325.3.

Field headspace readings and analytical results are presented in the following table.

SAMPLE ID	OVM	CHLORIDE	TOTAL PETROLEUM HYDROCARBONS
PBN	6 ppm	79 ppm	59.9 ppm
PBS	3 ppm	79 ppm	30.7 ppm
PBC	< 1 ppm	111 ppm	30.2 ppm

PBN = composite sample from the bottom of the excavation in the north end of the pit (3.5 feet below pit bottom)
PBS = sample from the bottom of the trench in the south end of the pit (3.5 feet below pit bottom)
PBC = composite sample of the material forming the bottom and sides of the pit

Summary

- Field headspace results measured levels well below 100 ppm and will be substituted for BTEX analysis. Soil TPH concentrations are below the remediation level of 100 ppm. Soil Chloride levels ranged from 79 to 111 ppm and are below the target chloride level of 250 ppm.
- The site assessment activities verify that the vertical and horizontal extent of impact has been delineated and that the remaining hydrocarbon concentrations meet the remediation standards for closure pursuant to the Unlined Surface Impoundment Closure Guidelines.

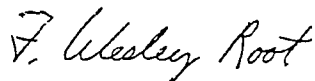
Conclusion

Based on the information presented, the pit is in compliance with OCD closure regulations. Rice will initiate closure activities upon receipt of written OCD approval of this plan. Closure activities include filling the pit with clean material purchased from a caliche pit and transporting the excavated material (approximately 40 loose cubic yards) to the Parabo Disposal Facility operated by Sundance Services, Inc. for disposal.

Once all closure activities have been completed, Rice will submit a Pit Remediation and Closure Report to the OCD. The report will include copies of the laboratory results, chains-of-custody, and disposition of any wastes generated.

If you have any questions, please call me at (505) 393-9174.

Sincerely,



F. Wesley Root
Projects Manager

Cc: CH, File



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

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

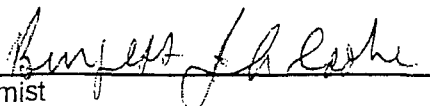
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F. WESLEY ROOT
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

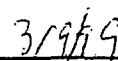
Receiving Date: 03/08/99
Reporting Date: 03/09/99
Project Number: NOT GIVEN
Project Name: SWD WELL F-29
Project Location: 29-T195-R38E, LEA CO. NM

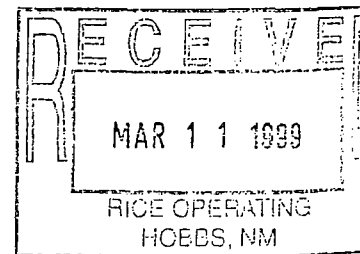
Sampling Date: 03/05/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		03/08/99	03/08/99	03/08/99	03/08/99
H4049-1	B-1 (40-41')	0.003	0.005	0.007	0.124
H4049-3	B-2 (15-16')	<0.002	<0.002	0.090	0.097
Quality Control		0.089	0.098	0.095	0.286
True Value QC		0.100	0.100	0.100	0.300
% Recovery		89.1	98.1	94.6	95.2
Relative Percent Difference		0.3	3.6	3.3	3.4

METHOD: EPA SW-846 8260


Chemist


Date



H4049-2.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.



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 ____

ANALYSIS REQUEST

Company Name: *Rice Operating Co.*

Project Manager: *F. Wesley Rost*

Address: *122 West Taylor*

City: *Hobbs* State: *NM* Zip: *88240*

Phone #: *505-393-9174*

Fax #: *505-393-1471*

Project #:

Project Name: *SWD Well F-29*

Project Location: *29-7195-R38E, Lea Co., NM*

FOR LAB USE ONLY

LAB I.D. Sample I.D.

LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :	DATE	TIME
<i>H4049-1</i>	<i>B-1 (40-41')</i>	<i>G</i>	<i>1</i>			<i>✓</i>							<i>3-5-99</i>	<i>11:30</i>
<i>-2</i>	<i>B-1 (45-46')</i>	<i>G</i>	<i>1</i>			<i>✓</i>							<i>3-5-99</i>	<i>12:00</i>
<i>-3</i>	<i>B-2 (15-16')</i>	<i>G</i>	<i>1</i>			<i>✓</i>							<i>3-5-99</i>	<i>13:15</i>
<i>-4</i>	<i>B-2 (30-31')</i>	<i>G</i>	<i>1</i>			<i>✓</i>							<i>3-5-99</i>	<i>13:40</i>
<i>-5</i>	<i>B-2 (35-36')</i>	<i>G</i>	<i>1</i>			<i>✓</i>							<i>3-5-99</i>	<i>13:45</i>

TPH 418.1
Chloride
BTEX

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Sampler Relinquished:

Date: *3-8-99*

Time: *12:00*

Relinquished By: *F. Wesley Rost*

Received By: (Lab Staff) *Burgess*

Date: *3-8-99*

Time: *12:00*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition
☐ Cool ☐ Intact
☐ Yes ☐ No

REMARKS:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Additional Fax #:

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



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

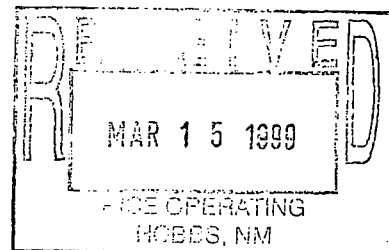
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: F. WESLEY ROOT -
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 03/10/99
Reporting Date: 03/11/99
Project Owner: RICE OPERATING
Project Name: SWD WELL F-29
Project Location: 29-T19S-R38E, LEA CO., NM

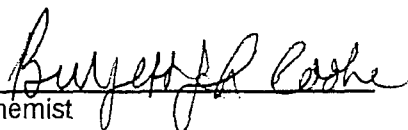
Analysis Date: 03/11/99
Sampling Date: 03/05/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER SAMPLE ID TPH
(mg/Kg)

H4056-1	B-2 (35.5')	117
Quality Control		244
True Value QC		240
% Recovery		102
Relative Percent Difference		3.2



METHOD: EPA 600/4-79-020 418.1


Chemist

3/11/99
Date

H4056.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.

ARDINAL LABORATORIES, INC.

Page / of /

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

RICE Operating Company

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

February 19, 1999

Ms. Donna Williams
State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

RECEIVED
MAR 23 1999
Environmental Bureau
Oil Conservation Division

**Re: Closure Plan
 Emergency Overflow Pit (Permit No. H-64)
 Salt Water Disposal Well No. F-29
 Southwest 1/4, Section 29 of T18S R38E, Lea County, New Mexico**

Ms. Williams:

Rice Operating Company (Rice) requests that the New Mexico Oil Conservation Division (OCD) approve this closure plan for the emergency overflow pit located at the above listed facility. The pit will be closed in accordance with the conditions specified in your letter dated February 4, 1999 and the Unlined Surface Impoundment Closure Guidelines published by the OCD.

Target Chloride Level

Based on conversations with Mr. Roger Anderson, Environmental Bureau Chief, OCD, it is Rice's understanding that a target level of 250 ppm (mg/l) has been established for delineation of chloride impact to the vadose zone as a result of operations regulated by the OCD.

Determination of General Site Characteristics

A field survey of the pit and surrounding area was conducted to determine the wellhead protection area and distance to the nearest surface water body.

No private domestic water source was identified within 200 feet of the pit.

No water wells were identified within 200 feet of the pit.

No surface bodies of water or groundwater discharge sites (seeps, springs, marshes, or swamps) were identified within 1,000 feet of the pit.

Depth to ground water at the site is estimated to be 45 feet below ground surface based on information obtained from the New Mexico State Engineers Office in Roswell, New Mexico.

Soil Remediation Levels

The total ranking score and corresponding recommended soil remediation levels pursuant to Section II A of the Closure Guidelines are as follows:

CRITERIA	APPLICABLE STANDARD	SCORE
Depth to ground water	Less than 50 feet	20
Well head protection	Greater than 1,000 feet from water source Greater than 200 feet from private water source	0
Surface water bodies		0
TOTAL RANKING SCORE		20

ANALYTICAL PARAMETER	REMEDIATION LEVEL
Benzene	10 ppm*
BTEX (benzene, toluene, ethylbenzene, and xylenes)	50 ppm*
TPH (total petroleum hydrocarbon)	100 ppm**
* A field soil vapor headspace measurement of 100 ppm may be substituted for laboratory analysis of the benzene and BTEX concentration limits pursuant to Section II.B.1, Closure Guidelines	
** TPH Remediation Level = 100 ppm plus background concentration	

Initial Assessment

The emergency pit was visually inspected for evidence of hydrocarbon impact. A small area in the north end of the pit exhibited moderate surface staining. The stained area was excavated and the soil was staged on location pending transport to an OCD permitted facility for disposal.

Three soil samples were collected to verify that the emergency pit meets the remediation levels. The samples were split into two portions. One portion was field screened for soil vapor headspace using a HNU DL-101 photoionizer detector (PID) pursuant to Section II.B.1 of the closure guidelines. The remaining sample portion was submitted to Cardinal Laboratories for TPH analysis using EPA Method 8015M. In addition, the samples were analyzed for chloride concentrations using EPA Method 325.3.

Field headspace readings and analytical results are presented in the following table.

SAMPLE ID	OVM	CHLORIDE	TOTAL PETROLEUM HYDROCARBONS
PBN	6 ppm	79 ppm	59.9 ppm
PBS	3 ppm	79 ppm	30.7 ppm
PBC	< 1 ppm	111 ppm	30.2 ppm
PBN = composite sample from the bottom of the excavation in the north end of the pit (3.5 feet below pit bottom)			
PBS = sample from the bottom of the trench in the south end of the pit (3.5 feet below pit bottom)			
PBC = composite sample of the material forming the bottom and sides of the pit			

Summary

- Field headspace results measured levels well below 100 ppm and will be substituted for BTEX analysis. Soil TPH concentrations are below the remediation level of 100 ppm. Soil Chloride levels ranged from 79 to 111 ppm and are below the target chloride level of 250 ppm.
- The site assessment activities verify that the vertical and horizontal extent of impact has been delineated and that the remaining hydrocarbon concentrations meet the remediation standards for closure pursuant to the Unlined Surface Impoundment Closure Guidelines.

Conclusion

Based on the information presented, the pit is in compliance with OCD closure regulations. Rice will initiate closure activities upon receipt of written OCD approval of this plan. Closure activities include filling the pit with clean material purchased from a caliche pit and transporting the excavated material (approximately 40 loose cubic yards) to the Parabo Disposal Facility operated by Sundance Services, Inc. for disposal.

Once all closure activities have been completed, Rice will submit a Pit Remediation and Closure Report to the OCD. The report will include copies of the laboratory results, chains-of-custody, and disposition of any wastes generated.

If you have any questions, please call me at (505) 393-9174.

Sincerely,



F. Wesley Root
Projects Manager

Cc: CH, File



my copy

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

February, 4 1999

Wesley Root
RICE Operating Company
122 West Taylor
Hobbs, New Mexico 882240

RE: Closure Plan
Emergency Overflow Pit (Permit No. H-64)
Salt Water Disposal Well No. F-29,
Southwest ¼, Section 29, T18S, R38E, Lea County, New Mexico

Dear Mr. Root,

The New Mexico Oil Conservation Division (OCD) has reviewed Rice Engineering Corporation's (RICE) January 25, 1999 "Closure Plan" of the emergency overflow pit at the above listed facility. The above referenced closure plan is **unapproved** until the following information is received by the OCD Hobbs District Office.

1. A summary of the laboratory analytical data pertaining to the TPH results given in the correspondence dated January 25, 1999 and the associated quality assurance/quality control (QA/QC) requirements.
2. A summary of the laboratory analytical data on chlorides from the excavated area and associated QA/QC requirements.

If you require any further information or assistance please do not hesitate to write or call me at (505-393-6161 ext..113).

Sincerely,

Donna Williams-Environmental Engineer

CC: Wayne Price; Chris Williams

RICE Operating Company

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

*CD
Alanna W.*

January 25, 1999

Mr. Chris Williams
State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

**Re: Closure Plan
Emergency Overflow Pit (Permit No. H-64)
Salt Water Disposal Well No. F-29
Southwest 1/4, Section 29 of T18S R38E, Lea County, New Mexico**

Mr. Williams:

Rice Operating Company (Rice) requests that the New Mexico Oil Conservation Division (OCD) approve closure of the emergency overflow pit at the above listed facility. The pit will be closed in accordance with the Unlined Surface Impoundment Closure Guidelines published by the OCD, dated February 1993.

The pit is an unlined emergency overflow pit, approximately 63 feet long by 29 feet wide by 3 feet deep, associated with a salt water disposal well facility. The facility is located outside the city limits of Hobbs and is surrounded by unimproved pastureland.

Determination of General Site Characteristics

A field survey of the pit and surrounding area was conducted to determine the wellhead protection area and distance to the nearest surface water body.

~~No private domestic water source was identified within 200 feet of the pit.~~

No water wells were identified within 200 feet of the pit.

No surface bodies of water or groundwater discharge sites (seeps, springs, marshes, or swamps) were identified within 1,000 feet of the pit.

Depth to ground water at the site is estimated to be 45 feet below ground surface based on information obtained from the New Mexico State Engineers Office in Roswell, New Mexico.

Soil Remediation Levels

The total ranking score and corresponding recommended soil remediation levels pursuant to Section II A of the Closure Guidelines are as follows:

CRITERIA	APPLICABLE STANDARD	SCORE
Depth to ground water	Less than 50 feet	20
Well head protection	Greater than 1,000 feet from water source Greater than 200 feet from private water source	0
Surface water bodies		0
TOTAL RANKING SCORE		20

ANALYTICAL PARAMETER	REMEDIATION LEVEL
Benzene	10 ppm*
BTEX (benzene, toluene, ethylbenzene, and xylenes)	50 ppm*
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PBC	< 1 ppm	30.2 ppm
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PBC = composite sample of the material forming the bottom and sides of the pit		

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- Field headspace results measured levels well below 100 ppm and will be substituted for BTEX analysis. Soil TPH concentrations were below the remediation level of 100 ppm
- The site assessment activities verify that the vertical and horizontal extent of impact has been delineated and that the remaining hydrocarbon concentrations meet the remediation standards for closure pursuant to the Unlined Surface Impoundment Closure Guidelines.

Conclusion

Based on the information presented, the pit is in compliance with OCD closure regulations. Rice has scheduled closure activities to be completed in February 1999. Closure activities include filling the pit with clean material purchased from a caliche pit and transporting the excavated material (approximately 40 loose cubic yards) to the Parabo Disposal Facility operated by Sundance Services, Inc. for disposal.

Once all closure activities have been completed, Rice will submit a Pit Remediation and Closure Report to the OCD. The report will include copies of the laboratory results, chains-of-custody, and disposition of any wastes generated.

If you have any questions, please call me at (505) 393-9174.

Sincerely,



F. Wesley Root
Projects Manager

Cc: KH
CH
File

Price, Wayne

From: Price, Wayne
Sent: Saturday, March 27, 1999 12:13 PM
To: Williams, Donna
Cc: Williams, Chris
Subject: Rice Oper. Co. Closure plans for Tk's & Pits

OCD SF has sent Rice a requirement letter to close all of these type of facilities! Therefore Donna the H-64 site will be included in this process.

We will require Rice to Notify you on all of these closures so you may go out and witness !

Please call Rice and tell them that OCD SF will Handle the H-64 closure plan that Rice sent You!

Thanks!