AP - 67

STAGE 1 & 2 ABATEMENT PLAN

DATE: 11-23-2007

11

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RICE Operating Company

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

CERTIFIED MAIL RETURN RECEIPT NO. 7007 0220 0001 1736 0831

May 7, 2008

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: EME jct. D-1 (AP-67) PUBLIC NOTIFICATION PROOF

Mr. Hansen:

In accordance with Rule 19 (Section 19.15.1.19 NMAC, Subsection G) Public Notice requirements, please accept the enclosed copies of proof that the appropriate individuals and entities were notified of the Stage 2 Abatement Plan submitted by Gilbert J. Van Deventer of Trident Environmental (Trident) for the D-1 Junction Box Site on November 24, 2007. In an e-mail dated February 13, 2008, the Oil Conservation Division (OCD) notified Rice Operating Company (ROC) that the Stage 2 Abatement Plan was conditionally administratively complete and directed ROC to proceed with public notice. Trident addressed the technical deficiencies outlined by OCD in the communication and submitted an amended Stage 2 Abatement Plan for this site on April 18, 2008.

Notices were sent via certified mail to landowners within the prescribed radius and return receipts were received for landowners indicated in the attached spreadsheet. Surface ownership by Enersource Inc. is included in the radius and the Lea County Tax Assessor's Office reports that this surface is in care of an entity called Commercial Exchange in Lubbock, Texas. A return receipt was not received for the mailing to their address and a phone number was not found. Records at the Tax Assessor's Office indicate that the taxes on this property have been delinquent since 2003.

Mailings were also sent to the Lea County Commission and the list of Interested Parties found on the OCD website. One individual on the Interested Parties list was notified via e-mail to the

address provided on the list. Forty-two total notifications were sent and delivery was not confirmed for one individual on the Interested Parties List. The notification to Mike Schultz of the International Technology Corp. (from the OCD Interested Parties list) was returned as "no longer at this address."

As directed by OCD, the Stage 2 Abatement Plan notifications were published in the *Albuquerque Journal* and the *Hobbs News-Sun* newspapers on February 28, 2008. Affidavits for these publications are enclosed.

ROC requests that OCD consider public notice complete for this abatement plan. Should you have any further questions regarding this request, do not hesitate to contact me. Thank you for your consideration.

ROC is the service provider (agent) for the Eunice Monument Eumont (EME) SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

RICE OPERATING COMPANY

Knistin Jamis Pope

Kristin Farris Pope Project Scientist

- enclosures: summary table of notifications, newspaper affidavits, return receipt copies, e-mail copies
- cc: MB, Trident, file, Daniel Sanchez (NMOCD)

STATE OF NEW MEXICO County of Bernalillo SS

NOTICE OF PUBLICATION

State of New Mexico Energy; <u>Minerals</u> and Natural Resources Department Oil Conservation Division

Notice is hereby given that pursu-ant to New Mexico Oil Conserva-

an, to New Mexico Oil Consorta-tion Division-Regulations, the /oi-lowing Stage 2 Abatement /Plan Proposal, has been submitted to the Director soft the Oil Conserva tion Division 120(S) St. Francis Dr. Santa Fe. New Mexico 87505.

Dr., Santa Fe', New, Mexico' 8/305, Telephone, (505) (47,6-3440). Rice, Operating, Company, Scott, Curtis, General, Manager, Tele-phone, (506) 3393 9174, 122 West, Taylor, Hobbs, New, Mexico, 88240, has. submitted a Stage 11 Final, Investigation, Report, and Stage 2: Abatement Plan Propos-al (AP-67) for the IEME 31ct, Dp.1 Site, Jocated in Section 11 Town

cal (AP-67) for the EME tick Data strength of the EME tick and the Section 1. Town ship? 20, south, "Range 36, east," Lea County, "New Mexico, approximately 2:5 miles west of Monument. New Mexico, "Rice" iOperating Company operates at saltwater, disposal pipeline, at the site samples at the site exhibit end of the strength of the

tersamples at the site exhibit elf, evated chloride concentrations. ROC has already mitigated the threat of past and future lacci-dental releases, at the Jdt D-19 site by permanently removing the junction.box; excavating a 30, ft. wide by 001 floong by 12 ft deen aread installing a clay layer, and backilling the tarea, surrounding the former Junction box site site and the taread surrounding the former Junction box site set additional actions which in-clude; (1) the creation of an infil-tration abarrier tausing limported clean tobsol. (2) reseeding the area in the vicinity of the former junction box with a mixture of native grasses and plains fore-establish vegetation at a natural, rate, and (3) at the completion of the proposed corrective actions to the vadose; zone, and after four more guarters of groundwa-ter sampling results from on site monitoring wells: MW, 1, MW/2; and MW/4 continue to show chorde and TDS concentrations below those from upgradient

below those from upgradient monitoring well MW-3 a final re-port will be submitted with a re-

port will be submitted with a re-quest for final closure Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil a Conservation

Director of the Oll Conservation Division:#at-the address given, above: The Stage 2: Abatement Plan Proposal may be viewed at-the above address or at the Oll Conservation Division Obisinet (Ot-cloce, 1625 N: French Drive, Hobbs, New Mexico: 88240, Telephone (505) 393-6161 between 8:00,am and 4:00 p.m. Monday through Friday. Prior to ruling on any pro-posed Stage 2: Abatement. Plan. the Director of the Oll, Conserva-tion Division shall allow, at least thinty. (30) days after the date, of

thirty. (30) days after the date of publication of this notice during which written requests for a public hearing that includes reasons why a hearing should be held and written, comments, may be submitted

Journal: February 28, 2008

to him.

Bill Tafoya, being duly sworn, declares and says that he is Classified Advertising Manager of The Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for the of & day first publication being on of times, the and the subsequent consecutive publications on 2020

RICE OPERATING MAR 03 2008 HOBBS, NM

Sworn and subscribed to before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this Laday of of 20 0. 3 e

OFFICIAL SEAL PRICE S 5, OElvn Sicane Statement to come at end of month. NOTARY PUBLIC NEW MEXICO STATE OF 40 ACCOUNT NUMBER C X^{2} Commission Expires Mo

CLA-22-A (R-1/93)

AFFIDAVIT OF PUBLICATION

State of New Mexico. County of Lea.

I, KATHI BEARDEN

PUBLISHER

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

1

of _____

weeks.

Beginning with the issue dated

February 28 _ 2008 and ending with the issue dated

February 28

_ 2008

PUBLISHER Sworn and subscribed to before

28th me this_ day of

February

Notary Public.

My Commission expires February 07, 2009 (Seal)



OFFICIAL SEAL DORA MONTZ NOTARY PUBLIC STATE OF NEW MEXICO My Commission Expires:

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE February 28, 2008 NOTICE OF PUBLICATION State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 2 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 S. St. Francis Dr. Santa Fe. New Mexico 87505, Telephone (505) 476-3440. Rice Operating Company, Scott Curtis, General Manager, Telephone (505) 393-9174, 122 Rice Operating Company. Soit Curtis, General Manager, Telephone (505) 393-9174, 122 West Taylor, Hobbs, New Mexico 88240, has submitted a Stage 1 Final Investigation Re-port and Stage 2 Abatement Plan Broposal (AP-67) for the EME dot 0-16 site, located in Section 1. Township 20 south, Range 36 east, Lea County, New Mexico, approximately, 25 miles west of Monument, New Mexico, Rice Operating Company, operates a saltwater disposal pipeline at the site. Soil impacts and groundwater samples at the site exhibit ele-vated chloride. Concentrations. RPC has already mitigated the threat of past and future, ac-cidental releases at the Jot 10.1 site by permanently removing the function box, excavating a 30 ft wide by 30 ft long by 12 ft deep areal installing a Cay layer, and backfilling the area surrounding the former junction box. The Stage 2/Abatement Plan, proposes additional ac-tions which include (11) the creation of an infiltration barrier using imported clean topsoil. (2) fre-seeding the area in the vicinity of the former junction box with a mixture of native grasses and plants to re-establish vegetation, at a natural rate (and (3) at the completion of grasses and plants to re-establish vegetation at a natural rate (and (3) at the completion of grasses and plants to re-establish vegetation at a natural rate (and (3) at inercompletion of the proposed corrective actions to the vadose zone, and after four more quarters of groundwater sampling results from on site monitoring wells MW 1- MW-2 and MW-4 con-tinue to show chloride and TDS concentrations below those from upgradient monitoring. well MW-3+a final report will be submitted with a request for final closure Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 2 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division District Office, 1625 N. French Drive Hobbs New Mexico 88240, Telephone (505) 393-6161 between 8:00 am and 4:00 pm. Monday through Friday. Prior to ruling on any proposed Stage 2 Abatement Plan, the Director of the Oil Conservation Division Shall allow at least thirty (30) days after the date of publica-tion of this notice during which written requests for a public hearing that includes reasons-why a hearing Should be held and written comments may be submitted to him. why a hearing should be held and written comments may be submitted to him. #23868 de la colta

01104367000 02598555 RICE OPERATING COMPANY 122 WEST TAYLOR HOBBS, NM 88240



Unit 'D', Sec. 1, T20S, R36E

Public Notice Mailings (2/27/08) Stage 2 Abatement Plan (AP-67)

		De	elivery Stat	us	
	Landowner or Interested Party	Delivered US Mail	Delivered E-mail	Not Delivered	Comments
1	El Paso Natural Gas 3506 West County Road Hobbs, NM 88240	X			
2	Charlcie F. Byrd P.O. Box 32 Monument, NM 88265	X			
3	George L. Klein 345 Clayton Grand Prairie, TX 75052	X			
4	Faye L. Klein P.O. Box 1503 Hobbs, NM 88240	X			
5	DLD Corporation 1314 Brittany Hobbs, NM 88240	X			
6	James R. Bryd P.O. Box 32 Monument, NM 88265	X			
7	Thaddeus Kostrubala New Mexico State Land Office P.O. Box 1148 Santa Fe. NM 87504 - 1148	X			
8	James Amos BLM, Carlsbad Field Office 620 East Greene Street Carlsbad, NM 88220	X			
9	Chevron USA 15 Smith Road Midland, TX 79705	X			
10	Harry Scott Klein Estate c/o George L. Klein 1313 Paige Hobbs, NM 88240	X			
11	Amerada Hess Corp P.O. Box 2040 Houston, TX 77252	X			
12	Enersource Inc. C/O Commercial Exchange P.O. Box 3236 Lubbock, TX 79452			Х	Return receipt has not been received as of 5/7/2008
13	Lea Partners Kirkwood and Darby P.O. Box 870849 Mesquite, TX 75187	X			

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14	Attorney General's Office P.O. Box 1508 Santa Fe, NM 87502 - 0115	X		
15	Bureau of Land Management State Director P.O. Box 27115 Santa Fe, NM 87502 - 0115	X		
16	Chief Hazardous Waste Bureau Runnels Building Santa Fe, NM 87504	X		
17	Gerald R. Zimmerman Colorado River Board of Calif. 770 Fairmont Ave, Ste. 100 Glendale, CA 91203 - 1035	X		
18	Dr. Harry Bishara P.O. Box 748 Cuba, NM 87013	X		
19	Mike Schulz International Technology Corp. 5301 Central Avenue, NE Suite 700 Albuquerque, NM 87108		Х	No longer at this address
20	Ken Marsh P.O. Box 388 Hobbs, NM 88241	X		
21	Ned Kendrick Attorney at Law 325 Paseo de Peralta Santa Fe, NM 87501	X		
22	Lynn Brandvold NM Bureau of Mines & Mineral Resources NM Institute of Mining & Tech Socorro, NM 87801	X		
23	Randy Hicks 910 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104	X		
24	Bruce S. Garber Attorney at Law P.O. Box 0850 Santa Fe, NM 87504 - 0850	X		
25	Chief Groundwater Bureau Runnels Building Santa Fe, NM 87504	X		
26	Jack A. Barnett Colorado River Basin Ctrl. Forum 106 West 500 South, Suite 101 Bountiful, UT 84010	X		
27	Department of Game & Fish Director Villagra Building Santa Fe, NM 87503	X		

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28	Collin Adams Environmental Counsel Public Service Company of New Mexico 414 Silver, Southwest Albuquerque, NM 87158	X		
29	Jay Lazarus P.O. Box 5727 Santa Fe, NM 87502	X		
30	Lee Wilson & Associates P.O. Box 931 Santa Fe, NM 87501	X		
31	New Mexico Environmental Department Secretary P.O. Box 26110 Santa Fe, NM 87501	X		
32	NM Oil & Gas Association P.O. Box 1864 Santa Fe, NM 87504 - 1864	X		
33	Soil & Water Conservation Bureau NM Dept of Agriculture/Ag Programs & Resources Box 30005/APR Las Cruces, NM 88003 - 8005	X		
34	Chris Shuey Southwest Research & Information Center P.O. Box 4524 Albuquerque, NM 87106	X		
35	State Historic Preservation Officer Attn: Elmo Baca 228 East Palace Avenue Villa Rivera Room 101 Santa Fe, NM 87503	Х		
36	US Fish & Wildlife Service Field Supervisor 2105 Osuna Road, Northeast Albuquerque, NM 87113 - 1001	X		
37 -	Water Resources Division State Engineer Bataan Building Santa Fe, NM 87503	X		
38	Ron Dutton Southwestern Public Service P.O. Box 1261 Amarillo, TX 79170	X		
39	State Parks & Recreation Director 1220 S St. Francis Santa Fe, NM 87505	X		
40	Regional Forester USFS Regional Office 517 Gold Avenue SW Albuquerque, NM 87102 e-mail: cgarcia@fs.fed.us		X	Mail attempt returned insufficient address; Emailed on 4/18/2008

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41	William Turner NM Trustee For Natural Resources C/O American Ground Water Consultants 610 Gold St. SW, Suite 111 Albuquerque, NM 87102	X			
42	Lea County Administration Office Attn: Lue Ethridge 100 N. Main Street, Suite 4 Lovington, NM 88260	X			
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4. Restricted Delivery? (Extra Fee)

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Kristin Pope

From:	"Kristin Pope" <kpope@riceswd.com></kpope@riceswd.com>
To:	<cqarcia@fs.fed.us></cqarcia@fs.fed.us>
Sent:	Friday, April 18, 2008 3:36 PM
Attach:	D-1 Stage 2 Public Notice amended doc
Subject:	Rule 19 Public Notice (D-1)

Regional Forester:

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In accordance with the NMOCD Rule 19 Public Notice requirements, please find the attached public notification document. This document was originally mailed to you on February 27, 2008. Thank you.

Kristin Farris Pope, Project Scientist RICE Operating Company Hobbs, New Mexico (575) 393-9174

AP-67 Stage (12 Abatement Plan November 23, 2007 11-23-07

STAGE 1 FINAL INVESTIGATION REPORT AND STAGE 2 ABATEMENT PLAN

EME JCT. D-1 SITE (AP-67) T20S, R36E, SECTION 1, UNIT LETTER D LEA COUNTY, NEW MEXICO

RECEIVED

NOV 2 8 2007 Environmental Bureau Oil Conservation Division Prepared for:

RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240



Prepared by:



P. O. Box 7624 Midland, Texas 79708 CERTIFIED MAIL RETURN RECIEPT NO. 7099 3400 0017 1737 1629



November 24, 2007

A,

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87504 RECEIVED

NOV 2.8 2007 Environmental Bureau Oil Conservation Division

RE: Stage 1 Final Investigation Report and Stage 2 Abatement Plan EME Jct. D-1 Site (AP-67) T20S-R36E-Section 1, Unit Letter D Lea County, New Mexico

Dear Mr. Hansen

On behalf of Rice Operating Company (ROC), enclosed are the Stage 1 Final Investigation Report, Stage 2 Abatement Plan and Notice of Publication for the above-referenced site. The Final Investigation Report includes the findings from recent investigation activities in accordance with the NMOCD-approved Stage 1 Abatement Plan. In addition, the Stage 2 Abatement Plan herein proposes corrective actions in Section 7.0.

Based on the chloride concentrations measured during the most recent soil boring investigation on April 10 and 11, 2006, it has been concluded that operation of the D-1 junction box may have caused some localized degradation of groundwater quality, however ROC has mitigated the threat of past and future accidental releases at the Jct. D-1 site by permanently removing the junction box, excavating a 30 ft wide by 30 ft long by 12 ft deep area, installing a clay layer, and backfilling the area surrounding the former junction box.

ROC proposes the creation of an infiltration barrier using imported clean topsoil and re-vegetating the surface which will enhance the effectiveness of the existing clay layer. An approximate 6,000 ft² area in the vicinity of the former junction box will be re-seeded with a mixture of native grasses and plants that will re-establish vegetation in the area at a natural rate. ROC will monitor the site for continued healthy growth of native vegetation and add amendments if necessary.

The groundwater quality in this area of Monument is regionally impaired. The amount of chloride impairment caused by the accidental release at the Jct. D-1 site did not significantly contribute to the site impairment. Chlorides or TDS concentrations in groundwater that resulted from the two accidental releases at the Jct. D-1 site will naturally attenuate by way of advective and dispersive processes. Furthermore, the existing clay layer and construction of the infiltration barrier proposed herein will mitigate the potential for residual constituents of concern from further infiltration, leaching, or percolation from the vadose zone into groundwater.

At the completion of corrective actions to the vadose zone as described in section 7.0 of the attached Stage 2 Abatement Plan, and should four more quarters of groundwater sampling results from on site monitoring wells MW-1, MW-2, and MW-4 continue to show chloride and TDS concentrations below those from upgradient monitoring well MW-3, a Stage 2 Final Report will be submitted with a request for final closure.

ROC also requests immediate suspension of BTEX analysis since there is no evidence of hydrocarbon impact to the vadose zone and since December 2004 all groundwater analyses have indicated concentrations below the WQCC standards for each constituent of BTEX.

After approved by the Division, ROC will give written notice of the Stage 1 and 2 abatement plan to the following persons:

- (a) surface owners of record within one (1) mile of the perimeter of the site,
- (b) the Lea County commissioner,
- (c) those persons, as identified by the Director, who have requested notification;
- (d) the New Mexico Trustee for Natural Resources, and any other local, state or federal governmental agency affected, as identified by the Director.

Upon your review, ROC will issue the approved public notice for publication in the Albuquerque Journal and the Hobbs News Sun pursuant to OCD Rule 19.G.(2). A copy of these publications and notice to owners and all interested parties will be provided.

If you have any questions please call me at 432-638-8740 or Kristin Pope at 505-393-9174.

Sincerely.

Gilbert Van Deventer, REM, PG Trident Environmental

cc: CDH, JSC, KFP



NOTICE OF PUBLICATION

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 2 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Rice Operating Company, Scott Curtis, General Manager, Telephone (505) 393-9174, 122 West Taylor, Hobbs, New Mexico 88240, has submitted a Stage 1 Final Investigation Report and 2 Abatement Plan Proposal (AP-67) for the EME Jct. D-1 site, located in Section 1, Township 20 south, Range 36 east, Lea County, New Mexico, approximately 2.5 miles west of Monument, New Mexico. Rice Operating Company operates a saltwater disposal pipeline at the site. Soil impacts and groundwater samples at the site exhibit elevated chloride concentrations. ROC has already mitigated the threat of past and future accidental releases at the Jct. D-1 site by permanently removing the junction box, excavating a 30 ft wide by 30 ft long by 12 ft deep area, installing a clay layer, and backfilling the area surrounding the former junction box. The Stage 2 Abatement Plan proposes additional actions which include: (1) the creation of an infiltration barrier using imported clean topsoil, (2) re-seeding the area in the vicinity of the former junction box with a mixture of native grasses and plants to re-establish vegetation at a natural rate, and (3) at the completion of the proposed corrective actions to the vadose zone, and after four more quarters of groundwater sampling results from on site monitoring wells MW-1, MW-2, and MW-4 continue to show chloride and TDS concentrations below those from upgradient monitoring well MW-3, a final report will be submitted with a request for final closure.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 2 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division District Office, 1625 N. French Drive, Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed Stage 2 Abatement Plan, the Director of the Oil Conservation Division Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted to him.

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 TABLE 1
 Summary of Groundwater Monitoring Results

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1.0 EXECUTIVE SUMMARY

This Stage 1 Final Investigation Report includes the findings from recent investigation activities in accordance with the NMOCD-approved Stage 1 Abatement Plan. In addition, the Stage 2 Abatement Plan herein proposes corrective actions in Section 7.0 which are briefly described below. A site topographic map is provided in Figure 1.

Based on the chloride concentrations measured during the most recent soil boring investigation on April 10 and 11, 2006, it has been concluded that the accidental release on October 25, 2004, contributed only a minor amount of the chlorides and total dissolved solids (TDS) observed in groundwater at the EME Jct. D-1 site. It is suspected that a nearby brine pond and other offsite sources of chlorides and TDS have caused the regional groundwater impact. ROC has mitigated the threat of past and future accidental releases from the Jct. D-1 site by permanently removing the junction box, excavating a 30 ft wide by 30 ft long by 12 ft deep area, installing a clay layer, and backfilling the area surrounding the former junction box.

ROC proposes the creation of an infiltration barrier using imported clean topsoil and re-vegetating the surface. An approximate 6,000 ft² area in the vicinity of the former junction box will be re-seeded with a mixture of native grasses and plants that will re-establish vegetation in the area at a natural rate. The existing clay layer and re-vegetation proposed herein will mitigate the potential for residual constituents of concern from further infiltration, leaching, or percolation from the vadose zone into groundwater. ROC will monitor the site for continued healthy growth of native vegetation and add amendments if necessary.

At the completion of corrective actions to the vadose zone as described herein, and should four more quarters of groundwater sampling results from on site monitoring wells MW-1, MW-2, and MW-4 continue to show chloride and TDS concentrations below those from upgradient monitoring well MW-3, a final report will be submitted with a request for final closure.





2.0 CHRONOLOGY OF EVENTS

September 28, 2004	EME D-1 junction box was removed.
October 1-7, 2004	Subsurface soil investigation with a backhoe, field test for chloride and hydrocarbon levels. This investigation indicated chloride impact to the vadose zone, however no indication of hydrocarbon impact was evident based on field screening with a photoionization detector (all readings were less than 0.1 ppm).
October 25, 2004	Accidental discharge of approximately 205 barrels (bbls) of produced water from the 4-inch pipeline suspended over the excavation. Approximately 180 bbls of produced water was recovered from within the excavation where the release was contained. Also, a temporary 4-inch poly line was installed to bypass the former junction box area.
October 27, 2004	ROC submitted a letter and C-141 Initial Report to the OCD office in Hobbs with a description of the remedial actions taken.
November 19, 2004	The site experienced another release from the pipeline approximately 52 feet north of the junction box where the temporary poly line was coupled to the existing 4-inch PVC line. The volume of this release was approximately 335 bbls and 280 bbls were recovered.
December 8, 2004	A monitoring well was installed a few feet south of the former junction box to further assess if ground water was impacted with chlorides.
December 9, 2004	ROC submitted notification to the OCD office in Hobbs documenting the further actions taken.
January 5, 2005	ROC notified the OCD office in Santa Fe that ground water impact was confirmed based on laboratory results of ground water samples analyzed from the on site monitoring well.
March 9, 2005	A junction box disclosure report was completed and submitted to the NMOCD with all other 2005 junction box reports.
March 10, 2005	The bottom 6-feet of excavation was backfilled with native soil.





April 29, 2005	Trident Environmental submitted an Investigation and Characterization Plan (ICP) to address potential environmental concerns at the above-referenced site.
May 5, 2005	Mr. Daniel Sanchez of the OCD requested that ROC submit an abatement plan to the OCD pursuant to Rule 19.
July 22, 2005	A 12-inch compacted clay layer was installed at 6-feet bgs.
July 26, 2005	The clay layer was covered with the remaining remediated soil to the surface, and contoured to drain rainwater away from the area.
December 5, 2005	A Stage 1 Abatement Plan for the EME Jct. D-1 site was prepared by R. T. Hicks Consultants, Ltd. and submitted to the NMOCD.
January 6, 2006	The 2005 Annual Groundwater Monitoring Report for the Jct. D-1 site was prepared by R. T. Hicks Consultants, Ltd. and submitted to the NMOCD.
February 6, 2006	ROC submitted proof of public notifications to the NMOCD.
March 30, 2006	The NMOCD gave verbal approval of the Stage 1 Abatement Plan Proposal.
April 10, 2006	Two additional monitoring wells (MW-2 and MW- 3) were installed approximately 250 feet southeast and 70 feet northwest, respectively, of the former junction box.
April 10-11, 2006	Soil samples were collected from ten soil borings (B-1 through B-10) at areas outlying the former junction box.
December 14, 2006	One additional monitoring well (MW-4) was installed approximately 80 feet southeast of the former junction box, to allow monitoring of groundwater conditions closer to the downgradient side of the junction box.
February 7, 2007	The 2006 Annual Groundwater Monitoring Report for the Jct. D-1 site was prepared by Trident Environmental and submitted to the NMOCD.



3.0 BACKGROUND

3.1 Site Location and Land Use

The D-1 junction box site and release is located on New Mexico State land in Township 20 South, Range 36 East, Section 1, unit letter D approximately 3 miles west-southwest of Monument, NM as shown on the attached Site Location Map (Figure 1). Produced water gathered by the EME SWD System in the site area is sent to the I-1 SWD well, which is located approximately 1 mile southeast of the D-1 Junction Box site. ROC is the service provider (agent) for the EME SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

Land in the site area is, or has been, primarily utilized for crude oil production, chemical manufacturing, and cattle grazing. Several other oil and gas production/treatment facilities are located within and around the Jct. D-1 site as shown in Figure 2 below.



Figure 2: Aerial Photograph (April 2004)

According to the State Land Office Data Search website, grazing and agriculture rights for section D, unit letter 1 are assigned to James R. Byrd under permit no. G0-2087-0000. The same database indicates many subsurface pipelines are in the area.



4.0 GEOLOGY AND HYDROGEOLOGY

4.1 Regional and Local Geology

The site is underlain by Quaternary colluvium deposits composed of sand, silt, and gravel deposited by slopewash, and talus which were re-deposited from the underlying Ogallala Formation. These deposits are often calichified (indurated with cemented calcium carbonate) with caliche layers from 1 to 20 feet thick. The thickness of the colluvium deposits and Ogallala Formation at the Jct. D-1 site is estimated at 45 feet; however it varies locally as a result of significant paleo-topography at the top of the underlying Triassic Dockum Group. Since Cretaceous Age rocks in the region have been removed by pre-Tertiary erosion, the colluvial deposits and Ogallala Formation rest unconformably on the Triassic Dockum Group. The uppermost unit of the Dockum Group is the Chinle Formation, which primarily consists of micaceous red clay and shale but also contains thin interbeds of fine-grained sandstone and siltstone. The red clays and shale of the Chinle Formation act as an aquitard beneath the water bearing colluvial deposits and therefore limit the amount of recharge to the underlying Dockum Group.

The first few feet from ground surface are dominated by fine-grained dune sand. Based on the descriptions provided in lithologic logs the subsurface soils are composed of various amounts of fine-grained sand with soft and hard caliche, gravelly sand, fine-grained sand with fractured sandstone, and sandy clay. More detailed descriptions of the subsurface lithology are provided in the soil boring and monitoring well logs (Appendix A).

4.2 Regional and Local Hydrogeology

Potable ground water used in southern Lea County is derived primarily from the Ogallala Formation and the Quaternary alluvium. Water from the Ogallala and alluvium aquifers in southern Lea County is used for irrigation, stock, domestic, industrial, and public supply purposes. Water well records from the Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) websites were reviewed to determine if there are any active water supply wells in use for domestic, irrigation, livestock, municipal, or industrial purposes in the Jct. D-1 area (Appendix D). As a result of this review and several field reconnaissance efforts there currently are no known potential water supply receptors within ½ mile of the Jct. D-1 site.

Recent data from the four monitoring wells at the Jct. D-1 site shows that the water table slopes towards the southeast at a magnitude of approximately 0.005 ft/ft which is consistent with those of several other groundwater monitoring sites in the Monument area and the prevailing regional gradient as cited in published reports (Nicholsen and Clebsch, 1961). Depth to groundwater beneath the site area is approximately 34 feet bgs. The base of the aquifer is at approximately 45 ft bgs with a saturated thickness estimated at 11 feet. There are no surface water bodies located within a mile of the site.



5.0 VADOSE ZONE CHARACTERISTICS

On April 10 and 11, 2006, two additional monitoring wells (MW-2 and MW-3) and ten soil borings (B-1 through B-10) were installed to complete delineation of the Jct. D-1 site in accordance with the Stage 1 Abatement Plan. Results of the soil sampling activities are shown on Figure 3.

Each boring was advanced to a depth of 30 feet bgs and samples were collected at 5-foot intervals. Soil samples were analyzed in the field for chlorides using field-adapted Method 9253 (QP-03). In addition, headspace readings were obtained using a calibrated Thermal Instruments Model 580B Organic Vapor Meter (OVM) in accordance with procedures described in QP-07.

The first few feet from ground surface are dominated by fine-grained dune sand. Based on the descriptions provided in lithologic logs the subsurface soils are composed of various amounts of fine-grained sand with soft and hard caliche, gravelly sand, fine-grained sand with fractured sandstone, and sandy clay. Detailed descriptions of the subsurface lithology, field screening measurements, and monitoring well construction are provided in the soil boring and monitoring well logs (Appendix A). Photo documentation of field activities is included in Appendix B. Laboratory analytical reports and chain of custody documentation are included in Appendix C.

There is no indication of hydrocarbon impact to the vadose zone or groundwater at the Jct. D-1 site. However, based on the field chloride concentrations measured at each boring and monitoring well, there is reasonable probability that the Monument Gas Plant South Brine Pond located upgradient and adjacent to the Jct. D-1 site is a significant source of chlorides and TDS observed in the vadose zone and groundwater at the Jct. D-1 site. The highest chloride concentrations in the vadose zone *and* groundwater were observed in monitoring well MW-3 at the southeast edge of the south brine pond, approximately 75 ft northwest of the former junction box, and outside the area of the accidental discharge.

Although the upgradient brine pond is the likely source for the majority of the degradation in groundwater quality at the Jct. D-1 site, the accidental release into the excavation of the former junction box on October 25, 2004, may have contributed a minor amount to the chlorides and TDS observed on site.

ROC has mitigated the threat of the accidental release at the Jct. D-1 site by permanently removing the junction box, installing a clay layer, and backfilling a 30 ft wide by 30 ft long by 12 ft deep excavated area surrounding the former junction box. Further mitigation activities such as surface re-vegetation are proposed in section 7.0.





6.0 GROUNDWATER QUALITY

6.1 Monitoring Program

Monitoring well (MW-1) has been sampled on a quarterly basis for major ions, TDS, and BTEX, since January 2002. On April 10 and 11, 2006, two additional monitoring wells (MW-2 and MW-3) were installed downgradient and upgradient, respectively, of the former junction box at the Jct. D-1 site to evaluate groundwater quality conditions. An additional monitoring well (MW-4) was installed approximately 80 feet southeast of the former junction box, to allow monitoring of groundwater conditions closer to the downgradient side of the junction box.

Historical analytical results and groundwater elevations for monitoring wells MW-1, MW-2, MW-3, and MW-4 are shown in Table 1 below. A map of the most current groundwater quality conditions for the Jct. D-1 site is depicted in Figure 4. A copy of the laboratory analytical report and chain of custody form for the most recent ground water sampling event is included in Appendix C.

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	Xylene (mg/L)
	12/21/04	37.20	3550.57	29,400	56,800	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	36.20	3551.57	29,200	54,200	< 0.001	<0.001	< 0.001	<0.001
	05/03/05	35.27	3552.50	22,900	43,600	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	37.74	3550.03	18,600	34,800	< 0.001	< 0.001	< 0.001	< 0.001
	10/19/05	34.70	3553.07	15,600	31,900	< 0.001	< 0.001	< 0.001	<0.001
N4337-1	01/18/06	34.95	3552.82	13,000	28,000	< 0.001	< 0.001	< 0.001	<0.001
1VI VV - 1	04/19/06	35.54	3552.23	10,700	26,800	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	36.24	3551.53	12,900	24,400	< 0.001	< 0.001	<0.001	< 0.001
	10/10/06	36.57	3551.20	10,200	20,200	< 0.001	< 0.001	<0.001	< 0.001
	02/27/07	36.99	3550.78	11,400	26,400	< 0.001	< 0.001	<0.001	<0.001
	06/04/07	37.36	3550.41	13,100	25,700	< 0.001	< 0.001	< 0.001	<0.001
	08/20/07	37.71	3550.06	13,096	29,024	<0.002	<0.002	<0.002	< 0.006
	04/19/06	33.89	3551.73	8,730	19,200	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	34.65	3550.97	9,390	19,950	< 0.001	<0.001	< 0.001	<0.001
MW-2	10/10/06	34.87	3550.75	7,910	18,000	< 0.001	<0.001	< 0.001	<0.001
141 44 -2.	02/27/07	35.38	3550.24	8,780	20,100	< 0.001	<0.001	< 0.001	< 0.001
	06/04/07	35.87	3549.75	9,230	20,500	<0.001	< 0.001	<0.001	<0.001
	08/20/07	36.19	3549.43	8,997	22,820	< 0.002	< 0.002	< 0.002	< 0.006
	04/19/06	37.55	3552.29	11,100	25,600	< 0.001	< 0.001	< 0.001	<0.001
	07/18/06	38.24	3551.60	15,400	25,900	< 0.001	< 0.001	< 0.001	<0.001
MW-3	10/10/06	38.59	3551.25	13,100	24,000	< 0.001	< 0.001	< 0.001	<0.001
10100-5	02/27/07	39.00	3550.84	15,900	30,800	<0.001	<0.001	< 0.001	<0.001
	06/04/07	39.47	3550.37	18,100	33,100	< 0.001	< 0.001	< 0.001	<0.001
	08/20/07	39.81	3550.03	12,696	28,292	< 0.002	< 0.002	< 0.002	< 0.006
	12/22/06	35.97	3550.93	12,900	22,700	< 0.001	< 0.001	<0.001	< 0.001
MW-4	02/27/07	36.23	3550.67	11,800	26,400	< 0.001	<0.001	<0.001	<0.001
1 1 1 1 1	06/04/07	36.67	3550.23	12,600	25,100	< 0.001	< 0.001	< 0.001	<0.001
	08/20/07	37.00	3549.90	13,196	28,968	< 0.002	< 0.002	< 0.002	< 0.006
		W0	QCC Standards	250	1000	0.01	0.75	0.75	0.62

 Table 1

 Historical Analytical and Groundwater Elevations




6.2 Hydrocarbons in Ground Water

BTEX concentrations in all monitoring wells (MW-1, MW-2, MW-3, and MW-4) have been below New Mexico Water Quality Control Commission (WQCC) standards for each constituent and for every sampling event taken place.

6.3 Other Constituents of Concern

Chloride concentrations in monitoring wells MW-1 (13,100 mg/L), MW-2 (9,230 mg/L), MW-3 (18,100), and MW-4 (12,600 mg/L) exceed the WQCC standard of 250 mg/L.

The TDS concentrations in monitoring wells MW-1 (25,700 mg/L), MW-2 (20,500 mg/L), MW-3 (33,100), and MW-4 (25,100 mg/L) exceed the WQCC standard of 1,000 mg/L.

The higher chloride concentrations in upgradient monitoring well MW-3 (18,100 mg/L) are evidence of an upgradient offsite source. Monitoring well MW-3 is located at the southeast edge of the south brine pond (Monument Gas Plant) which has high potential for being the source of chlorides and TDS observed at the downgradient Jct. D-1 site.

There is reasonable probability other upgradient sources, including an abandoned hydrochloric and sulfuric acid manufacturing plant (DLD Resources, formerly Climax Chemical Company) located less than ½ mile northwest of the Jct. D-1 site, contributed to the regional groundwater impairment.

Although upgradient sources are likely for the majority of the degradation in groundwater quality at the Jct. D-1 site, there is reasonable probability that the reported accidental release into the excavation of the former junction box on October 25, 2004 has temporarily increased the chlorides and TDS observed on site. As shown graphically in Figure 5, chloride concentrations in MW-1, which is located adjacent to the southeast edge of the former junction box excavation, declined from a high of 29,400 mg/L in December 2004 to 10,700 mg/L by April 2006. TDS levels have correspondingly decreased during the same time period. However, since April 2006, chloride and TDS concentrations have remained relatively steady.





Graph of Chloride and TDS Concentrations Versus Time (MW-1)







7.0 STAGE 2 ABATEMENT PLAN

7.1 Corrective Action to the Vadose Zone

ROC has mitigated the threat of any accidental releases from the Jct. D-1 site by permanently removing the junction box, installing a clay layer, and backfilling a 30 ft wide by 30 ft long by 12 ft deep excavated area surrounding the former junction box.

ROC further proposes the creation of an infiltration barrier using imported clean sandy loam for the topsoil layer and re-vegetating the surface which will enhance the effectiveness of the existing clay layer. An approximate 6,000 ft² area in the vicinity of the former junction box where they is a lack of vegetation will be re-seeded with a mixture of native grasses and plants that will re-vegetate the area at a natural rate. The infiltration barrier will enhance the effectiveness of the clay layer by providing two natural processes to control infiltration: (1) soil provides a water reservoir, and (2) natural evaporation from the soil plus plant transpiration empties the soil water reservoir. The infiltration barrier will consist of a layer of soil (sandy loam) that will support the growth of native grasses and plants and will vary in thickness to match the surrounding terrain of the dune sand habitat. The cover will contain selected soil (imported topsoil and onsite blended soils) and will be placed to maintain desirable soil properties. The onsite blended soils, if used, will have chloride concentrations below 500 mg/kg.

Figure 6 depicts the area proposed for re-seeding and construction of the infiltration barrier. ROC will monitor the site for continued healthy growth of vegetation and add amendments if necessary.

7.2 Corrective Action to the Groundwater

The groundwater quality in this area of Monument is regionally impaired. The amount of chloride impairment caused by the accidental release from the Jct. D-1 did not significantly contribute to the regional impairment. Chlorides or TDS in groundwater that resulted from any accidental releases at the Jct. D-1 site will naturally attenuate. Furthermore, the existing clay layer and re-vegetation as proposed above will mitigate the potential for residual constituents of concern from further infiltration, leaching, or percolation from the vadose zone into groundwater. ROC will continue quarterly groundwater sampling at each of the four monitoring wells.

7.3 Closure and Proposed Schedule of Activities

At the completion of corrective actions to the vadose zone as described above, and after four more quarters of groundwater sampling results from on site monitoring wells MW-1, MW-2, and MW-4 continue to show chloride and TDS concentrations below those from upgradient monitoring well MW-3, a final report will be submitted with a request for final closure.



APPENDIX A

LITHOLOGIC LOGS

AND

MONITORING WELL CONSTRUCTION DIAGRAMS

	Logger:		Israel Juarez: Mort Bates	Client						Well	ID:
Drillin	Driller: ng Method:		Atkins Engineering Associates, Inc. 4.25 in. Hollow Stem Auger	Projec	RICE Ope t Name:	rating Compa	any				
	Start Date:		12/8/04	Locati	jct.	D-1 leak					MW-1
Notes:	20) ft sou	thwest of former junction box site	Lucan	EME S	WD System					
	-	TD = 4	40 ft Groundwater = 31 ft		unit 'D', Sec Lea C	1, T20S, R County, NM	36E				
De ath	Split Sp	oon					1	ία γ _ε			
(feet)	chloride	PID	Description		Lithology	-	L	v	Veli	Cons	struction
0.0	113	1.6					•••				
1.0		-	0.46						137.		
2.0			CLAYEY SAND								
3.0			loose, light tan, damp				30		1.0		
4.0									4. 1 Asia		
						1			10 A		
5.0	140	5.2					С. У		12%		
6.0				1			No. of the				
7.0			4 – 11 ft SILTY SAND WOALICHE				1.4.1		3		
8.0			reddish tan, damp				1.644.		1224		
9.0							2 4 1 2 1 4 2 1 4 1 1 1 1 1 1 1 1 1 1 1				> arout
10.0	484	0.9					- e - e	n	1		grout
10.0				-		-		asing	1.00		
11.0							2 - 13	ů Č	11. C.		
12.0								0 P/	1.2. 20		
13.0							1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	сh. 4	14.55		
14.0							4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	n, sc	(Tel. 2		
15.0	8865	0.5						2-	100		
16.0			11 - 22 ft				2		*.35 24		
17.0			CLAYEY SAND WCALICHE						11.00		
17.0			loose, lan, moist				2				
18.0							1			\leq	
19.0			-								
20.0	4842	4.1									
21.0										>	bentonite seal
22.0											
22.0											
23.0									H	\leq	
24.0											
25.0	3876	0.9									
26.0			22 - 31 ft								
27.0			SILTY SAND w/BROKEN SANDSTONE reddish tan, damp								
28.0											
29.0											
30.0	1196	21									
		<u></u>				-					
31.0					<u> </u>					Ì	sand
32.0										(pack
33.0											
34.0											
35.0	1113	0.9	31.40 ft			lab ≈ 1120					
36.0			POORLY-GRADED SAND			ppm Cl'					
37.0			son, ian, wei								
37,0											,
38.0											
39.0											
40.0]	

1		11/1		1002	0/04		MONIT	FOR WE	ELL NO.:	MW-2 TOTAL DEPTH: 45 Feet
		<u>M</u>		2-6				S	SITE ID:	EME D-1 CLIENT: RICE Operating Company
1	- x -	x	MW-300	0 1-17 70 16 1	DB-5			CONTR	ACTOR:	Harrison & Cooper, Inc. COUNTY: Lea
		<u> </u>	B-8 B-10	CANO-1	@E4 -10		DRIL	LING MI	ETHOD:	Air Rotary STATE: New Mexico
		4 #L	/	€-2 Ø,	11-4			START	T DATE:	04/10/06 LOCATION: T20S-R36E-Sec 1-Unit D
	PICE 4'	11-1	P BPL				COMP	LETION	NDATE:	04/10/06 FIELD REP.: G. Van Deventer
-	1	RAND			₩¥-2			COM	MENTS.	monitoring weilliocated approximately 250 reet southeast of former junction box.
			Dept	Sam h Time		Chloride	PID (opm)	USCS	Color	
					Surface	(FF)	(PP-0)			Light brown (5 YR 6/4) sandy loam, dune sand, fine-grained, subrounded grains, unconsolidated, dry
Cement		Cement	5	1358	3 Split Spoon	151	0	SW		Light brown (5 YR 6/4) fine-grained sand, subrounded grains, unconsolidated, dry.
Hole Plug	40 PVC Blank Casing	Hole Plug	10	1400) Split Spoon	598	0			Very pale orange (10 YR 8/2) fine-grained sand, subrounded grains, unconsolidated, dry. Soft and hard calic matrix.
3/8 Bentonite	2" Sched	3/8 Bentonite	15	1403	Split Spoon	516	0	SM/C AL		Hard caliche layer at 15 feet Very pale orange (10 YR 8/2) fine-grained sand, subrounded grains, unconsolidated, dry. Soft and hard calic matrix.
			20	1407	, Split Spoon	290	0			Grayish-orange (10 YR 7/4) fine-grained sand, subrounded grains, unconsolidated, dry. Pale yellowish brown (10 YR 6/2) fine-grained sand, subrounded grains, unconsolidated, dry.
			25	1415	Split Spoon	276	0	SM		Pale yellowish brown (10 YR 6/2) fine-grained sand, subrounded grains, unconsolidated, dry.
and Pack	0" Slots	and Pack	30	1421	Split Spoon	292	0			Pale yellowish brown (10 YR 6/2) fine-grained sand, subrounded grains, unconsolidated, dry.
rady Silica S	en with 0.01	ady Silica S	3F	1405	Cuttingen			SS/ SW		
20/40 Bi	2" Diameter Scree	20/40 B.	40	1420	Cuttings			GP		Pale brown (5YR 5/2) gravelly sand, subrounded grains, poorly sorted, unconsolidated, moist. Sand is fine-gr and gravel ranges from pea size to 1" nodules. Gravel content increases with depth Pale brown (5YR 5/2) fine-grained sandy gravel, subrounded grains, poorly sorted, unconsolidated, very mois Sand is fine-grained and gravel ranges from pea size to 1" nodules.
			45	1435	Cuttings			SW		Moderate reddish orange (10R 6/6) fine and medium-grained sand, subrounded grains, unconsolidated, very
-	5" -	-		-	Gauriys			CL		Moderate reddish brown (10R 4/6) sandy clay (red bed), wet.

ſ			177) Os	/1			LIT	HOLO	GIC LOG AND MONITORING WELL CONSTRUCTION DIAGRAM
×				NY NY	5 20H	1		MONI	for we	ELL NO.:	MW-3 TOTAL DEPTH: 45 Feet
	ŰŊ,	11							5	SITE ID:	EME D-1 CLIENT: RICE Operating Company
	W/D		MW-	A	^{3−5} ⊕	8-6			CONTR	ACTOR:	Harrison & Cooper, Inc. COUNTY: Lea
-		x		8-88	E E	00-4		DRIL	LING M	ETHOD:	Air Rotary STATE: New Mexico
			/	8-90	®8-1	0			STAR	T DATE:	04/10/06 LOCATION: T20S-R36E-Sec 1-Unit D
	à F	NY P	11 05	n.	- 10 0			COMF	PLETIO	V DATE:	04/10/06 FIELD REP.: G. Van Deventer
1	RIC	GANSHES	TEN			100-2			COM	MENTS:	Monitoring well located approximately 70 feet northwest of former junction box and at southeast
		X.				- G					corner of brine pond.
	1	7					1.	1			
		-	100	Dooth	Samp	Tupo	Chloride	PID	USCS	Color	
7				Deptin	TIME	Surface		(ppm)			Lithology, color, grain size, sorting, rounding, consolidation, distinguishing rear ore Light brown (5 YR 6/4) sandy loam, dune sand, fine-grained, subrounded grains, unconsolidated, dry
						Sunace					
1									SW		
nent		ment			1				11		
Cel		Cer		5					Designationes		
14					1604	Split	5934	0			Pale yellowish brown (10 YR 6/2) fine-grained sand with very pale orange (10YR 8/2) soft caliche in matrix. Sand orains are subrounded, unconsolidated, dry
	b					opoon					granic al o casi canada, anomonia da a j.
	Casir										
	ank O			10							
Bnl	C BIS	Bnl		10	1600	Split	5001	0			
ole P	PV(ole P		-	1606	Spoon	5061	0			Very pale orange (10 YR 8/2) fine-grained sand, subrounded grains, unconsolidated, dry. Soft and hard caliche
te Ho	d 40	te Ho							SM/C		maux.
otoni	Sche	Itoni							AL		
3 Ber	2	8 Ber		15	-						
3/8		3/6			1610	Split Spoon	2744	0			Very pale orange (10 YR 8/2) fine-grained sand, subrounded grains, unconsolidated, dry. Soft and hard caliche i matrix.
		Gin									
11				20							
6					1615	Split	6103	0			
						Spoon			1		Gravish-orange (10 YR 7/4) fine-grained sand, subrounded grains, unconsolidated, dry.
									SM		
				25					SIVI		
				25		Split					Grayish-orange (10 YR 7/4) fine-grained sand, subrounded grains, unconsolidated, dry.
					1620	Spoon	866	0	SS		Pale brown (5YR 5/2) cherty sandstone (microcrystaline grain size).
											Light brown (5 YR 6/4) fine-grained sand, subrounded grains, unconsolidated, dry
									SW		
Pack	ots	Pack		30							Light brown (5 VP 6/4) find project cand, subraunded project upgener light at the
and)" SIG	and		V	1628	Split Spoon	1667	0	22		בוקחו טוטאיז (C איז 10/2) inte-grained sand, subrounded grains, unconsolidated, dry Pale brown (SYR 5/2) cherty sandstone (microcrystaline grain size). Slightly moist at 31 ft
ca S	0.010	ca S							00		Pale brown (5YR 5/2) fine-grained sand, subrounded grains, unconsolidated, slightly moist.
y Sili	with (y Sili							SW		
Brad	een v	Brad		35		Cuttings	5				
1/40 E	Scre	1/40 E									Grayish-orange (10YR 7/4) gravelly sand, subrounded grains, poorly sorted, unconsolidated, moist. Sand is fine- oranged and gravel ranges from pea size to 1" podules.
20	neter	20									
	Dian										
	2"			10		0					
				40		Cuttings	5		SP		Pale brown (5YR 5/2) gravelly sand, subrounded grains, poorly sorted, unconsolidated, moist. Sand is fine to
											medium-grained and gravel ranges from pea size to 1" nodules.
	\bigvee			45		Cuttings	5				Bottom of boring at 45 ft below ground surface.
-	5"	->		_							
											Moderate reddicts brown (10P, 4/6) capdy alow (red had) wat
									GL		Timouerate reaction brown (Tork 400) odnay ody (Tea bea), Wet
	-						1				81

1		nij spro		100 2			MONIT	TOR WE	ELL NO.:	MW-4	TOTAL DEPTH:	45 Feet
			10×					5	SITE ID:	EME D-1	CLIENT:	RICE Operating Company
	222	<u>MI</u>	V-30 0B	B-5 €	2-5			CONTR	ACTOR:	Harrison & Cooper, Inc.	COUNTY:	Lea
-		×	B-30 B-10		©8-4		DRIL	LING MI	ETHOD:	Air Rotary	STATE:	New Mexico
		, Wel	8-99	-2 BM	8-4			START	T DATE:	12/14/06	LOCATION:	T20S-R36E-Sec 1-Unit D
	PHCE Nº F	IT IT	8PL				COMF	PLETION	N DATE:	12/14/06	FIELD REP.:	G. Van Deventer
1	1	RANSWED			MW-2			COM	MENTS:	Monitoring well located approx	imately 80 feet southeast o	of former junction box.
										corner of brine pond.		
-		-	T	Samp	le	Chloride	PID					RIPTION
		ed Erdenin	Depth	Time	Туре	(ppm)	(ppm)	USCS	Color	LITHOLOGY, COLOR, GRAIN SI	IZE, SORTING, ROUNDING,	CONSOLIDATION, DISTINGUISHING FEATU
			0		Surface					Pale yellowish brown (10 YR 6/2) f	fine-grained sand. Sand grain	s are subrounded, well sorted, unconsolidated
nt		ŧ										
Ceme		Ceme	5	0814	Cuttings			SW		Pale yellowish brown (10 YR 6/2) f	fine-grained sand. Sand grain:	s are subrounded, well sorted, unconsolidated
0					Outungs							
		1										
	asing											
	nk C		10	0010	0					Gravish-orange (10 YR 7/4) fine-g	rained sand with very pale ora	ange (10 YR 8/2) soft caliche in matrix
bnj	Bla	bn	10	0816	Cuttings						rance care man for pare ere	
ole P	PVC	ole P										
te Ho	ed 40	te Ho						SM/C				
ntoni	Sche	ntoni						AL		An observative incomparison poloi	um contranato (apliatra) apotor	
8 Be	2"	8 Be	15	0818	Cuttings	1.1				As above but with increasing calcil	um carbonate (caliche) conter	n.
3/		3/										
-		-										
			20	0820	Cuttings					Light brown (5 YR 5/6) fine-grained	d sand, subrounded grains, wi	ell sorted, unconsolidated, dry
			-									
								SW				
		1	25	0823	Cuttings					Light brown (5 YR 5/6) very fine-gr	rained sand, subrounded grair	ns, moderately sorted, unconsolidated, dry
						1						
			-									
		1										
Dack	ots	Pack	30	0825	Cuttings					Light brown (5 YR 6/4) fine-grained	d sand with <5% grayish orang	ge (10 YR 7/4) calcium carbonate in matrix. S
and	" SIG	and								grama are aubrounded, moderater	, conco, anconsonaatea, dry	
ica S	0.01(ica S	-	-								
Jy Sil	with	dy Sil						SIMU				
Brac	reen	Brac	35	0827	Cuttings			CAL		Light brown (5 YR 6/4) fine to med matrix. Sand grains are subrounde	lium-grained sand with <5% gr ed, moderately sorted, uncons	ayish orange (10 YR 7/4) calcium carbonate olidated, dry
20/40	er Sc	20/40										
	amet											
	2" Di.											
			40	0828	Cuttings					Light brown (5 VP 5/6) find to mod	ium arained cand, subraviada	d grains moderately sorted upsopsolidated
										slightly damp.	ium-graineu sanu, subrounde	a grains, moderately softed, unconsolidated,
								SW				
	\bigvee		45	0830	Cuttings			SC		Moderate reddish brown (10R 4/6)	clayey sand, wet.	
	5" -	->						CL			Bottom of boring at 45 ft below	v ground surface.

	Geologist:			Gil Var	n Devente	er		PICE Operating Company	Borehole ID:
	Driller:			Harrison &	& Cooper,	Inc.		RICE Operating Company	
Drillin	g Method:			Air	Rotary			Project Name:	
\$	Start Date:			04	/10/06			EME D-1 Junction Box Site	
	End Date:			04	/10/06			Location:	B-1
Notes:	Boring loc	ated 43	feet west	of former jur	nction box			EME SWD System unit 'D', Sec. 1, T20S, R36E Lea County, NM	_
Depth (feet)	Interval	Sample Time	Туре	Chloride (ppm)	OVM (ppm)	Color	USCS Symbol	Description: Color, Grain size, Sorting, rou Distinguishing Features	nding, Consolidation, s
0 1 2 3 4								Light brown (5 YR 6/4) sandy loam, dune sand subrounded grains, unconsolidated, dry	d, fine-grained,
5 6 7 8	5-7	907	Split Spoon	749	0		SW	Light brown (5 YR 6/4 and 5 YR 5/6) fine-grain grains, unconsolidated, dry	ned sand, subrounded
9 10 11 12	10-12	911	Split Spoon	575	0			Light brown (5 YR 6/4 and 5 YR 5/6) fine-grair grains, unconsolidated, dry Hard caliche layer at 13 fe	ned sand, subrounded
13 14 15 16 17 18 19	15-17	916	Split Spoon	690	0		CAL/SM	Very pale orange (10 YR 8/2) caliche (soft) wi YR 7/4) fine-grained sand, subrounded grains	th grayish-orange (10 , unconsolidated, dry.
20 21 22 23 24	20-22	919	Split Spoon	749	0			Grayish-orange (10 YR 7/4) fine-grained sand unconsolidated, dry.	, subrounded grains,
25 26 27 28	25-27	928	Split Spoon	599	0		SM	Light brown (5 YR 6/4) fine-grained sand, sub unconsolidated, dry.	rounded grains,
29 30 31	30-32	935	Split Spoon	722	0			Light brown (5 YR 6/4) fine-grained sand, subi unconsolidated, dry. Moist (groundwater) at 31 ft bgs.	rounded grains,
32 33 34 35 36 37 38 39 40								Boring terminated at 32 feet.	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4





	Geologist:			Gil Var	n Devente	r		PICE Operating Company	Borehole ID:
	Driller:			Harrison &	Cooper,	Inc.		RICE Operating Company	
Drillin	g Method:			Air	Rotary			Project Name:	
5	Start Date:			04	/10/06			EME D-1 Junction Box Site	
	End Date:			04	/10/06			Location:	B-2
Notes	Boring loc:	ated 53	feet south	of former iu	nction ho	x		EME SWD System	
inoics.	Doning loca	ated 55	1001 300111	ron former ju	netion bo.	α.			-
								unit D, Sec. 1, 1205, R36E	-
								Lea County, NM	
								na an a	
Depth (feet)	Interval	Sample Time	Туре	Chloride (ppm)	OVM (ppm)	Color	USCS Symbol	Description: Color, Grain size, Sorting, round Distinguishing Features	ding, Consolidation,
0								Light brown (5 YR 6/4) sandy loam, dune sand,	fine-grained,
1								subrounded grains, unconsolidated, dry	
2							SW		
3									
4									
-									
5	57	058	Split	80	0			Very pale orange (10 YR 8/2) fine-grained sand	, subrounded grains,
6	5-7	900	Spoon	09	0			unconsolidated, dry. Soft and hard caliche in m	atrix.
7									
8							SM/CAL		
9	11 II.						1 ON OAL		
10			Calib					Very pale orange (10 YR 8/2) and light brown (5	5Y 6/4) fine-grained
11	10-12	1000	Spoon	845	0			sand, subrounded grains, unconsolidated, dry.	Soft caliche in
L L			Spoon					matrix.	
12								Hard caliche layer at 13 fee	t
13		1.000							
14									
15	15 17	1003	Split	636	0			Light brown (5 YR 5/6) fine-grained sand, subro	ounded grains,
16	13-17	1005	Spoon	030	0			unconsolidated, dry.	
17						•			
10									
10									
19									
20			Split					Light brown (5 VR 5/6) fine-grained sand, subro	unded grains
21	20-22	1007	Spoon	503	0			unconsolidated, dry.	andea graino,
00			-						
22					- A		SM		
23	-								
24									
25									
00	25-27	1015	Split	793	0			Pale yellowish brown (10 YR 6/2) fine-grained s	and, subrounded
20			Spoon					grans, unconsolidated, ury.	
27									
28									
29									
20								Data vallevieb brown (10 VD 0/0) France	and aubre with
30	30-22	1022	Split	766	0			grains unconsolidated dry	and, subrounded
31	00-02	1022	Spoon	700	5			Moist (groundwater) at 31 ft bas.	
32								Boring terminated at 32 feet	
33								1702002010	
00								*	
34								STUR POND	40/28
35					5.00				×
36									(222) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
07									8-3 @ 8-3 @B-4
37									B-10 08-10
38			1.1					at the	8-2 @WW-4
39								PICE 4 TO THE PICE	. gr
10								Reiselfer	My-2
40									· · · ·





	Geologist:			Gil Var	n Devente	r			Borehole ID:
	Driller:			Harrison &	Cooper,	Inc.		RICE Operating Company	
Drillin	g Method:			Air	Rotary			Project Name:	
5	Start Date:	:		04	/10/06			EME D-1 Junction Box Site	
	End Date:		11. IL	04	/10/06			Location:	B-3
Notes:	Boring loc	ated 37	feet east o	of former jun	ction box.			EME SWD System	-
	0			8				unit 'D' Sec. 1, T20S, R36E	
100								Lea County NM	-
								1	and the second second second
Death		Sample		Chlorida	01/14			Departmention: Color Crain size Serting rou	nding Consolidation
(feet)	Interval	Time	Type	(ppm)	(ppm)	Color	Symbol	Distinguishing Feature	s
0						Contraction -		Light brown (5 YR 6/4) sandy loam, dune san	d, fine-grained,
1								subrounded grains, unconsolidated, dry	
2									1 A A A A A A A A A A A A A A A A A A A
2							SW		
3									
4									
5			Colit					Venuenale erange (10 VP 8/2) fine grained say	ad subrounded grains
6	5-7	1046	Spoon	219	0			unconsolidated dry Soft caliche in matrix	ia, subioundeu grains,
7			opeen						
· ·									
8							CANCAL		
9							SIM/CAL		
10			0.00						and the second second second second second second
11	10-12	1048	Spoon	832	0			unconsolidated doy. Soft caliche in matrix	na, subrounded grains,
10			opoon						
12			-					Hard caliche layer at 13 fe	eet
13									
14									
15			0.17						11
16	15-17	1052	Spoon	2015	0		OALION	Very pale orange (10 YR 8/2) caliche (soft) wi	th grayish-orange (10 unconsolidated dry
47			opeen				CAL/SIVI		, anoonoonoatoa, arj.
17									
18									
19									
20			Colit					Crowish orange (10 VP 7/4) fine grained can	Loubrounded grains
21	20-22	1055	Spoon	561	0			unconsolidated, drv.	i, subiounded grains,
22									
22									
23									
24									
25			Split	-				Gravish-orange (10 YR 7/4) fine-grained sand	subrounded grains
26	25-27	1101	Spoon	494	0		SM	unconsolidated, dry.	,
27								110000000000000000000000000000000000000	
28									
20					-				
29								and the second	
30	30.20	1110	Split	400	0			Light brown (5 YR 6/4) fine-grained sand, sub	rounded grains,
31	30-32		Spoon	402	0			Moist (groundwater) at 31 ft bos	
32								Boring terminated at 32 feet.	
33									
24									Qier +
34								1 1/19999.3	10 20
35									
36									WW-30 08-7 03-6
37								y and the second	8-10 8-3 0E-4
38									B-20 0B-10 B-2 0000
30								A RUY WAY	the part
00								arce	TER
40							_	1.8	MIX-2





	Geologist:			Gil Var	n Devente	r		DICE Quanting Commonly	Borehole ID:
	Driller:			Harrison &	& Cooper,	Inc.	Annes and a second second	RICE Operating Company	
Drillin	g Method:			Air	Rotary			Project Name:	
5	Start Date:			04	/10/06		_	EME D-1 Junction Box Site	
	End Date:			04	/10/06			Location:	B-4
Notes:	Boring loc	ated 83	feet east o	of former jun	ction box.			EME SWD System unit 'D', Sec. 1, T20S, R36E Lea County, NM	-
Depth (feet)	Interval	Sample Time	Туре	Chloride (ppm)	OVM (ppm)	Color	USCS Symbol	Description: Color, Grain size, Sorting, rour Distinguishing Features	nding, Consolidation,
0 1 2 3 4							sw	Light brown (5 YR 6/4) sandy loam, dune sand subrounded grains, unconsolidated, dry	I, fine-grained,
5 6 7 8	5-7	1134	Split Spoon	271	0		SM/CAI	Very pale orange (10 YR 8/2) fine-grained san unconsolidated, dry. Soft caliche in matrix.	d, subrounded grains,
9 10 11 12	10-12	1136	Split Spoon	973	0			Very pale orange (10 YR 8/2) fine-grained san unconsolidated, dry. Soft caliche in matrix.	d, subrounded grains,
13 14 15 16 17 18 19	15-17	1139	Split Spoon	769	0		CAL/SM	Very pale orange (10 YR 8/2) caliche (soft) wit YR 7/4) fine-grained sand, subrounded grains,	h grayish-orange (10 unconsolidated, dry.
20 21 22 23 24	20-22	1145	Split Spoon	854	0			Grayish-orange (10 YR 7/4) fine-grained sand, unconsolidated, dry.	subrounded grains,
25 26 27 28	25-27	1153	Split Spoon	623	0		SM	Grayish-orange (10 YR 7/4) fine-grained sand, unconsolidated, dry.	subrounded grains,
30 31	30-32	1200	Split Spoon	749	0			Light brown (5 YR 6/4) fine-grained sand, subr unconsolidated, dry. Moist (groundwater) at 31 ft bgs.	ounded grains,
32 33 34 35 36 37 38 39 40								Boring terminated at 32 feet.	1 1 1 1 1 1 1 1 1 1 1 1 1 1





Driller: Harrison & Cooper, Inc. Drilling Method: Air Rotary Project Name: Start Date: 04/11/06 End Date: 04/11/06 Notes: Boring located 67 feet north of former junction box. Motes: EME SWD System unit 'D', Sec. 1, T20S	bx Site B-5 em , R36E A
Drilling Method: Air Rotary Project Name: Start Date: 04/11/06 EME D-1 Junction Br End Date: 04/11/06 Location: Notes: Boring located 67 feet north of former junction box. EME SWD System unit 'D', Sec. 1, T20S Unit 'D', Sec. 1, T20S	B-5 em , R36E A
Start Date: 04/11/06 EME D-1 Junction B End Date: 04/11/06 Location: Notes: Boring located 67 feet north of former junction box. EME SWD System unit 'D', Sec. 1, T20S Unit 'D', Sec. 1, T20S	B-5 em , R36E A
End Date: 04/11/06 Location: Notes: Boring located 67 feet north of former junction box. EME SWD Systement of former junction box. EME SWD Systement of former junction box.	B-5 em
Notes: Boring located 67 feet north of former junction box. EME SWD System unit 'D', Sec. 1, T20S Sec. 1, T20S	ет , R36E И
unit 'D', Sec. 1, T20S	, R36E
	Λ
Lea County, N	and the second
	and the second
Depth Sample Chloride OVM USCS Description: Color, Grain siz	e, Sorting, rounding, Consolidation,
(feet) Interval Time Type (ppm) (ppm) Color Symbol Distingui	shing Features
0 Light brown (5 YR 6/4) sandy lo	am dune sand fine-grained
subrounded grains, unconsolid	ated, dry
2 SW	
3	
4	
5	
5-7 0825 Split 2817 0 Very pale orange (10 YR 8/2) o VER 7(4) fine grained cand cub	aliche (soft) with grayish-orange (10
	ounded grains, unconsolidated, dry.
7	
8	
9	
10	
10-12 0828 Split 1226 0 CAL/SM Very pale orange (10 YR 8/2) c	aliche (soft) with grayish-orange (10
11 Spoon YR 7/4) fine-grained sand, subi	ounded grains, unconsolidated, dry.
12	
13	
14	
15	
15-17 0830 Split 2849 0	
16 Spoori	ned sand with with some calcium
17	a grains, unconsolidated, dry.
18	
19	
20	
20-22 0834 Split 1193 0 Light brown (5 YR 6/4) fine-grai	ned sand with some calcium
SM/CAL carbonate in matrix, subrounde	d grains, unconsolidated, dry.
22	
23	
24	
25	
26 25-27 0842 Split 2519 0 Gravish-orange (10 YR 7/4) fine	e-grained sand with some calcium
	grams, unconsolidated, dry.
27	
28	
29 SM	
30 Split	and sand subrausdad series
31 30-32 0847 Spoon 1040 0 lunconsolidated, slightly moist	neu sanu, subrounded grains,
32	
Boring terminated at 32 feet.	X
33	
34	
35	
36	× ⊕ ^{B-5} ⊛ _{B-5}
37	× <u>WW-30 00</u> -7 × <u>B-00 5-3</u>
ST	B-13 0xV-1 00-4 B-20 0B-10
38	B-2 Charles
39	PICE 4 THE FRAM SP
40	TRANSM MW-2





	Geologist:	[Gil Var	n Devente	er	and the second		Borehole ID:
	Driller:			Harrison &	& Cooper,	Inc.		RICE Operating Company	
Drillin	g Method:			Air	Rotary			Project Name:	
	Start Date:			04	/11/06			EME D-1 Junction Box Site	
	End Date:			04	/11/06			Location:	B-6
Notes:	Boring loc	L ated 111	feet nort	heast of forn	ner iunctio	on box.		EME SWD System	-
	5				,			unit 'D' Sec 1 T20S R36E	
									-
								Lea County, NM	
		Comolo		and the strength of the					
Depth (feet)	Interval	Time	Туре	Chloride (ppm)	OVM (ppm)	Color	USCS Symbol	Description: Color, Grain size, Sorting, rou Distinguishing Feature	inding, Consolidation, s
0 1								Light brown (5 YR 6/4) sandy loam, dune sar subrounded grains, unconsolidated, dry	nd, fine-grained,
2							SW		
3									
4									
5 6	5-7	0914	Split Spoon	1332	0			Very pale orange (10 YR 8/2) caliche (soft) w YR 7/4) fine-grained sand, subrounded grain:	ith grayish-orange (10 s, unconsolidated, dry.
7									
8									
9									
10									
10	10-12	0917	Split	1281	0	80	CAL/SIVI	Very pale orange (10 YR 8/2) caliche (soft) w	ith grayish-orange (10
11			Spoon					YR 7/4) fine-grained sand, subrounded grain:	s, unconsolidated, dry.
12									
13									
14								- 158 - Sec.	
45									
15	15-17	0922	Split	986	0				
16	10 11	00LL	Spoon					Light brown (5 YR 6/4) fine-grained sand with	with some calcium
17								carbonate in matrix, subrounded grains, unco	onsolidated, dry.
18									
19									
20	20-22	0924	Split	940	0			Light brown (5 YR 6/4) fine-grained sand with	some calcium
21		0021	Spoon	0.10	Ū		SM/CAL	carbonate in matrix, subrounded grains, unco	onsolidated, dry.
22									
23									
24									
25									
20	25- <mark>2</mark> 7	0931	Split	424	0			Grayish-orange (10 YR 7/4) fine-grained sand	d with some calcium
26			Spoon					carbonate in matrix, subrounded grains, unco	onsolidated, dry.
27									
28									
29							SM		
30									
24	30-32	0935	Split	673	0			Light brown (5 YR 6/4) fine-grained sand, sub	prounded grains,
31			Spoon		_			unconsolidated, slightly moist.	
32								Boring terminated at 32 feet.	
33								779777973	
34								· · · · · · · · · · · · · · · · · · ·	
35									
26									1/1/2 × 19-5 0
30								Lectropy X	WW-30 08+7
37									B-13 ONV-1 B-26 03-10
38								and the second se	8-2 GMH-4
39								and A BUT	the set
40							1.10	10 10 10 10 10 10 10 10 10 10 10 10 10 1	MIX-3
40									9

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	Geologist:			Gil Var	n Devente	er		RICE Onemating Commany	Borehole ID:	
	Driller:			Harrison &	& Cooper,	Inc.		RICE Operating Company		
Drillin	ng Method:			Air	Rotary			Project Name:		
	Start Date:			04	/11/06			EME D-1 Junction Box Site		
	End Date:			04	/11/06			Location:	B-7	
Notes:	Boring loc	ated 43	feet north	west of form	er junction	hox and adi	iacent to	EME SWD System	-	
110100.	north side	of fence		west of form	er juniction			EIVIE SVVD System	-	
								unit 'D', Sec. 1, T20S, R36E		
								Lea County, NM		
Constanting of the second										
Depth		Sample		Chloride	OVM	Color	USCS	Description: Color, Grain size, Sorting, round	ding, Consolidation,	
(feet)	Interval	Time	Туре	(ppm)	(ppm)	00101	Symbol	Distinguishing Features		
0						C 2 2 2 2 2 2 2 2		Light brown (5 YR 6/4) sandy loam, dune sand,	fine-grained,	
1								subrounded grains, unconsolidated, dry		
						Lower and				
2							SW	Selfs and the self-self-self-self-self-self-self-self-		
3								and the second		
4								CONTRACTOR AND		
-										
5	5-7	1316	Split	1333	0			Pale yellowish brown (10 YR 6/2) fine-grained s	and, subrounded	
6	5-1	1010	Spoon	1000	U			grains, unconsolidated, dry. Soft caliche in mati	rix.	
7										
0										
0							SM/CAL			
9							ONNONE			
10			Colit					Light brown (5YR 5/6 fine-grained sand, subrou	inded grains,	
11	10-12	1318	Spoon	1497	0			unconsolidated, dry. Soft very pale orange calic	he (10 YR 8/2) in	
		_	opoon					matrix.		
12										
13										
14										
16										
15	15-17	1322	Split	863	0			Very pale orange (10 YR 8/2) caliche (soft) with	grayish-orange (10	
16	10 17	TOLL	Spoon	000	U			YR 7/4) fine-grained sand, subrounded grains, i	unconsolidated, dry.	
17										
18							ONLIGHT			
10							CAL/SM			
19		-		1.1					S. 1975. 18	
20			Solit					Gravish-orange (10 YR 7/4) fine-grained sand	subrounded grains	
21	20-22	1325	Spoon	884	0			unconsolidated, dry.	sabroariaca granio,	
22										
22									the standard state	
23									1. 1975 14	
24										
25			Callt							
26	25-27	1338	Spoon	874	0		-	Grayisn-orange (10 YR //4) fine-grained sand, s	subrounded grains,	
20		_	opoon					lancensolidated, dry.		
27							CNA		- 15 kg 1-	
28							SIVI			
29										
30								Light brown (5 VB 6/4) find analysis	unded areiter	
50	30-32	1343	Split	659	0			unconsolidated dry	undeo grains,	
31			Spoon					Moist (groundwater) at 31 ft bas.		
32								Boring terminated at 32 feet.		
33										
24									Qie i	
54								1 Janve Poro	40,46	
35			-							
36									B-5 @8-6	
37								× × 105	8-5 9 18-3 0P-4	
57									B-13 000-1 B-20 95-10	
38							2.00	web.	8-2 WMW-4	
39							and a period			
40					1.1			in automation	MV-2	
									· ·	





	Geologist			Gil Va	n Devente	er			Borehole ID:
	Driller			Harrison &	& Cooper,	Inc.		RICE Operating Company	
Drillin	g Method:			Air	Rotary			Project Name:	_
	Start Date:			04	/11/06			EME D-1 Junction Box Site	
	End Date:			04	/11/06			Location:	B-8
Notes:	Boring loc side of fer	ated 16 nce.	feet north	of former ju	nction bo	k and adjace	nt to south	EME SWD System unit 'D', Sec. 1, T20S, R36E Lea County, NM	
Depth (feet)	Interval	Sample Time	Туре	Chloride (ppm)	OVM (ppm)	Color	USCS Symbol	Description: Color, Grain size, Sorting, rou Distinguishing Feature	nding, Consolidation, s
0 1 2 3 4							SW	Light brown (5 YR 6/4) sandy loam, dune san subrounded grains, unconsolidated, dry	d, fine-grained,
5 6 7 8	5-7	1438	Split Spoon	966	0			Very pale orange (10 YR 8/2) fine-grained sar unconsolidated, dry. Soft caliche in matrix.	nd, subrounded grains,
9 10 11 12	10-12	1440	Split Spoon	1242	0		SM/CAL	Very pale orange (10 YR 8/2) fine-grained sar unconsolidated, dry. Soft caliche in matrix.	nd, subrounded grains,
13 14 15 16 17 18 19	15-17	1443	Split Spoon	2106	0		CAL/SM	Very pale orange (10 YR 8/2) caliche (soft) wi YR 7/4) fine-grained sand, subrounded grains	th grayish-orange (10 , unconsolidated, dry.
20 21 22 23 24	20-22	1447	Split Spoon	4882	0			Grayish-orange (10 YR 7/4) fine-grained sand unconsolidated, dry.	, subrounded grains,
25 26 27 28	25-27	1453	Split Spoon	2271	0		SM	Light brown (5 YR 6/4) fine-grained sand, som subrounded grains, unconsolidated, dry.	ne cherty gravel,
29 30 31	30-32	1503	Split Spoon	940	0			Light brown (5 YR 6/4) fine-grained sand with subrounded grains, unconsolidated. Moist (groundwater) at 31 ft bgs.	some cherty gravel,
32 33 34 35 36 37 38 39 40								Boring terminated at 32 feet.	ин-5 в - 6 в - 7 в - 6 в - 6 в - 7 в - 6 в - 7 в - 6 в - 7 в - 6 в - 7 в





	Geologist:			Gil Va	n Devente	er			Borehole ID:
Driller: Harrison & Cooper, Inc. RICE Operating Company Air Rotary Project Name:									
Drillin	ng Method:			Air	Rotary			Project Name:	-
	Start Date:			04	/11/06			EME D-1 Junction Box Site	
	End Date:			04	/11/06			Location:	B-9
Notes:	Boring loc	ated 41	feet south	-southwest	of former	junction box.	Just	EME SWD System	
	south of T	ranswes	tern (10"	high pressur	e gas) pip	peline.		unit 'D', Sec. 1, T20S, R36E	
								Lea County, NM	1
52 A.S									
Depth		Sample		Chloride	OVM	Color	USCS	Description: Color, Grain size, Sorting, rour	ding, Consolidation,
(feet)	Interval	Time	Туре	(ppm)	(ppm)	00101	Symbol	Distinguishing Features	
0								Light brown (5 YR 6/4) sandy loam, dune sand	, fine-grained,
1		-						subrounded grains, unconsolidated, dry	
2							SW		
3							000		
5									
4									
5	5-7 1525 Split Spoon 112 0 Very pale orange (10 YR 8/2) fine-grained sa unconsolidated, dry. Soft caliche in matrix.		d, subrounded grains						
6 5-7 1525 Spoon 112 0 7 8 9 9				unconsolidated, dry. Soft caliche in matrix.					
8			_						
Geologist: Image: Control of the sector of the					SM/CAL				
Get Drilling N Sta En Notes: Bo Sou Depth In 0 I 2 I 0 I 2 I 0 I 1 I 0 I 12 I 3 I 4 I 5 I 6 I 7 I 8 I 9 I 10 I 11 I 12 I 13 I 14 I 15 I 16 I 17 I 18 I 19 I 20 I 21 I 22 I 23 I 24 I 25 I 31 I 32<									
10	10.12	1527	Split	750	0			Very pale orange (10 YR 8/2) fine-grained same	d, subrounded grains
11	10-12 1527 Split Spoon 758 0		unconsolidated, dry. Soft caliche in matrix.						
12									
13									
14									
15									
15	15-17	1530	Split	573	0			Very pale orange (10 YR 8/2) caliche (soft) with	h grayish-orange (10
16		0.0.000	Spoon				CAL/SM	YR 7/4) fine-grained sand, subrounded grains,	unconsolidated, dry.
17									
18		11.1							
19	2.2								
20		-	Calit						
21	20-22	1534	Spoon		0			Grayish-orange (10 YR 7/4) fine-grained sand,	subrounded grains.
22			opeen			ALC: N		anoonoonaatea, ary.	
22					1				
23	SampleChloride (ppm)OVM (ppm)ColorUSCS SymbolDescription: C011 </td <td></td> <td></td>								
24									
25	25.07	1540	Split	E 4 4	0		014	Light brown (5 YR 6/4) fine-grained sand, some	e cherty gravel.
26	20-21	1542	Spoon	511	0		SIVI	subrounded grains, unconsolidated, dry.	
27									
28									
29									
30								Light brown (5 YR 6/4) fine-grained cand with a	ome cherty aroual
21	30-32	1549	Split	629	0			subrounded grains, unconsolidated.	ome cherty gravel,
01			Shoon		_			Moist (groundwater) at 31 ft bgs.	
32								Boring terminated at 32 feet.	
33									
34									1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
35									
36									× 18-5 ⊛8-6
37								X X	8-30 08-7 8-30 83 00-4
00									B-10 0HIV-1 B-96 08-10
38	-							at the	8-2 MW-4
39								NCE 4 TIT	1 8.
40								Roubs	My-2





	Geologist:			Gil Var	n Devente	r		BICE Onenating Commany	Borehole ID:
	Driller:			Harrison &	& Cooper,	Inc.		RICE Operating Company	
Drillir	ng Method:			Air	Rotary			Project Name:	
	Start Date:			04	/11/06			EME D-1 Junction Box Site	-
	End Date:			04	/11/06			Location:	B-10
Notes:	Borina loc	ated 48	feet south	east of form	er junction	ı box.	Just	EME SWD System	-
	south of T	ranswes	tern (10"	high pressur	e gas) pip	eline.		unit 'D' Sec 1 T20S B36F	
Death		Sample		Oblasida	01/14		11000	Departmention: Color Crain size Serting rou	nding Consolidation
(feet)	Interval	Time	Туре	(ppm)	(ppm)	Color	Symbol	Distinguishing Feature	s
0								Light brown (5 YR 6/4) sandy loam, dune san	d, fine-grained,
1									
2							SW		
3									
				1.35				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4									
5	5.7	1/38	Split	066	0			Very pale orange (10 YR 8/2) fine-grained sa	nd, subrounded grains,
6	5-7	1430	Spoon	500	0			unconsolidated, dry. Soft caliche in matrix.	
7									
8									
0							SM/CAL		
9									
10	10.12	1440	40 Split 1242 0 Very					Very pale orange (10 YR 8/2) fine-grained sa	nd, subrounded grains,
11	10-12	1440	Spoon	1242	0			unconsolidated, dry. Soft caliche in matrix.	
12									
13						1 Maple			
14									
14									
15	15 17	11/13	Split	2106	0			Very pale orange (10 YR 8/2) caliche (soft) w	ith grayish-orange (10
16	15-17	1443	Spoon	2100	0		CAL/SM	YR 7/4) fine-grained sand, subrounded grains	s, unconsolidated, dry.
17									
18									
10									
15									
20	20-22	1447	Split	4882	0			Grayish-orange (10 YR 7/4) fine-grained sand	d, subrounded grains,
21	20 22		Spoon	1002	Ū			unconsolidated, dry.	
22						14 A			
23									
24					P				
25									
20	25-27	1453	Split	2271	0		SM	Light brown (5 YR 6/4) fine-grained sand, son	ne cherty gravel,
26			Spoon	anna an the second s				subrounded grains, unconsolidated, dry.	
27									
28									
29									
30								Light brown (5 YR 6/4) fine-grained sand with	some cherty gravel
31	30-32	1503	Spoon	940	0			subrounded grains, unconsolidated.	Josef Josef
			opoort					Moist (groundwater) at 31 ft bgs.	
32								Boring terminated at 32 feet.	
33									
34								1	
35									
36									× 1 0 −5 0 2−5
0.7								X	WW-30 08-7
37					-				8-19 OHW-1 00-4
38								. Wat	B-2 MW-4
39					2			arte 4 at F	I PAN BOL
40								Pulses	My-2
									Ŵ



APPENDIX B

PHOTODOCUMENTATION







View facing WNW showing Jct. D-1 site (left-center) with Monument Gas Plant brine pond in background (04/10/2006).





View facing north showing MW-1 (foreground) and plate marking location of former junction box (center) on 04/06/2006.



View facing northwest showing installation of MW-4 on 12/14/2006.

ground) located ~83 ft east of former junction box on 04/10/2006.

APPENDIX C

LABORATORY ANALYTICAL REPORTS

AND

CHAIN OF CUSTODY DOCUMENTATION



Analytical Report

Prepared for:

Kristin Farris Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: EME System D-1 Junction Box Site Project Number: EME D-1 Location: T20S, R36E, Sec 1, Unit Letter D

Lab Order Number: 6D14016

Report Date: 04/21/06

Project: EME System D-1 Junction Box Site Project Number: EME D-1 Project Manager: Kristin Farris

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-3 (15')	6D14016-01	Soil	04/10/06 10:52	04/14/06 11:45
MW-2 (10')	6D14016-02	Soil	04/10/06 14:00	04/14/06 11:45
MW-3 (5')	6D14016-03	Soil	04/10/06 16:05	04/14/06 11:45
MW-3 (20')	6D14016-04	Soil	04/10/06 16:15	04/14/06 11:45





Rice Operating Co.	Project:	EME System D-1 Junction Box Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	EME D-1	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	04/21/06 12:05
			······

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-3 (15') (6D14016-01) Soil									
Chloride	1930	25.0	mg/kg	50	ED62005	04/18/06	04/18/06	EPA 300.0	
MW-2 (10') (6D14016-02) Soil									
Chloride	899	10.0	mg/kg	20	ED62005	04/18/06	04/18/06	EPA 300.0	
MW-3 (5') (6D14016-03) Soil									
Chloride	7750	100	mg/kg	200	ED62005	04/18/06	04/18/06	EPA 300.0	
MW-3 (20') (6D14016-04) Soil									
Chloride	6130	100	mg/kg	200	ED62005	04/18/06	04/18/06	EPA 300.0	



Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Rice Operating Co.	Project:	EME System D-1 Junction Box Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	EME D-1	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	04/21/06 12:05

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	l.evel	Result	%REC	Limits	RPD	Limit	Notes
Batch ED62005 - Water Extraction										
Blank (ED62005-BLK1)				Prepared &	Analyzed:	04/18/06				
Chloride	ND	0.500	mg/kg							
LCS (ED62005-BS1)				Prepared &	: Analyzed:	04/18/06				
Chloride	9.08		mg/L	10.0		90.8	80-120			
Calibration Check (ED62005-CCV1)				Prepared &	Analyzed:	04/18/06				
Chloride	8.90		mg/L	10.0		89.0	80-120			
Duplicate (ED62005-DUP1)	Sou	rce: 6D14016-	-01	Prepared &	Analyzed:	04/18/06				
Chloride	1960	25.0	mg/kg	g/kg 1930				1.54	20	



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Rice Op 122 W. Hobbs N	erating Co. l'aylor IM, 88240	Project: EME System D-1 Junction Box Site Project Number: EME D-1 Project Manager: Kristin Farris	Fax (505) 397-1471 Reported: 04/21/06 12:05
		Notes and Definitions	
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above the reporting limit		
NR	Not Reported		
dry	Sample results reported on a dry weight basis		
RPD	Relative Percent Difference		
LCS	Laboratory Control Spike		

MS Matrix Spike

Report Approved By:

Dup Duplicate



Raland Kester

4/21/2006

Raland K. Tuttle, Lab Manager Celcy D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

Date:

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.



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of Texas	Phone: 432-563-1600	Fax: 432-563-1713
Vironmental Lab	600 West I-20 East	essa, Texas 79765

Fax: 432-563-1713



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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

	Rice Ope	rating	
Date/Time:	4/14/06	11:45	
Order #:	6D14016		<u>. </u>
Initials	Cok		

Sample Receipt Checklist (Yes) 30 Temperature of container/cooler? No CI Nes Shipping container/cooler in good condition? No Custody Seals intact on shipping container/cooler? Yes] Not present No Custody Seals intact on sample bottles? (YES) No. Not present VES-No Chain of custody present? Sample Instructions complete on Chain of Custody? No (Tes) Chain of Custody signed when relinquished and received? (ces) No Chain of custody agrees with sample label(s) No (Yes 1 Container labels legible and intact? No (res) | Sample Matrix and properties same as on chain of custody? No Res Samples in proper container/bottle? No Yesl Samples properly preserved? المحقر ك No Sample bottles intact? resil No Preservations documented on Chain of Custody? (TES) 1 No 63 Containers documented on Chain of Custody? No Sufficient sample amount for indicated test? Imples received within sufficient hold time? (Yes) No No Yes VOC samples have zero headspace? Not Applicable No Yes

Other observations:

		,
Contact Person: Regarding:	Variance Documentation: Date/Time:	Contacted by:
Corrective Action Taken:		



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 08/21/07 Reporting Date: 08/27/07 Project Number: NOT GIVEN Project Name: EME JUNCTION D-1 LEAK Project Location: T20S-R36E-SEC1 D ~ LEA COUNTY - NEW MEXICO Sampling Date: 08/20/07 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM/KS

		Na	Ca	Mg	ĸ	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(<i>u</i> S/cm)	(mgCaCO ₃ /L)
ANALYSIS DA	ΓE:	08/21/07	08/23/07	08/23/07	08/23/07	08/22/07	08/23/07
H13142-1	MONITOR WELL #1	9,570	592	331	145	40100	408
H13142-2	MONITOR WELL #2	7,400	446	383	98.5	31300	388
H13142-3	MONITOR WELL #3	9,633	605	286	150	39300	420
H13142-4	MONITOR WELL #4	10,114	579	270	105	40300	416
Quality Control		NR	51.9	49.2	1.94	1423	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	104	98.4	97.0	101	NR
Relative Percer	nt Difference	NR	8.0	6.3	2.1	0.3	NR
METHODS:		SM3	3500-Ca-D	3500-Mg E	8049	120.1	310.1

		CI	SO4	CO3	HCO3	pН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS D	DATE:	08/22/07	08/22/07	08/23/07	08/23/07	08/22/07	08/22/07
H13142-1	MONITOR WELL #1	13,096	4,780	0	498	6.89	29,024
H13142-2	MONITOR WELL #2	8,997	5,610	0	473	7.11	22,820
H13142-3	MONITOR WELL #3	12,696	5,300	0	512	6.92	28,292
H13142-4	MONITOR WELL #4	13,196	5,450	0	508	6.98	28,968
Quality Conti	rol	500	25.6	NR	939	6.95	NR
True Value C	5C	500	25.0	NR	1000	7.00	NR
% Recovery		100	103	NR	93.9	99.3	NR
Relative Percent	cent Difference	< 0.1	1.0	NR	1.4	< 0.1	NR
METHODS:	·····	SM4500-CI-B	375.4	310.1	310.1	150 1	160 1

Date

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



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

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

Receiving Date: 08/21/07 Reporting Date: 08/23/07 Project Number: NOT GIVEN Project Name: EME JUNCTION D-1 LEAK Project Location: T20S-R36E-SEC1 D ~ LEA COUNTY, NM Sampling Date: 08/20/07 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	ΓE	08/22/07	08/22/07	08/22/07	08/22/07
H13142-1	MONITOR WELL #1	< 0.002	< 0.002	<0.002	<0.006
H13142-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H13142-3	MONITOR WELL #3	< 0.002	<0.002	<0.002	<0.006
H13142-4	MONITOR WELL #4	<0.002	<0.002	<0.002	<0.006
Quality Control		0.093	0.091	0.093	0.264
True Value QC		0.100	0.100	0.100	0.300
% Recovery		92.8	91.2	93.4	88.0
Relative Percer	nt Difference	2.8	2.6	1.6	1.2

METHOD: EPA SW-846 8260



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 applicuble service. In the effective day to be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, 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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APPENDIX D

WATER WELL INVENTORY

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Township: Zone: Sections: [1.2] NAD27 X: Y: Zone: Search Kadius: Number: Umber: Search Kadius: Imber: Suffix: Couny: Let Basin: Number: Suffix: Owner Name: (First) (Last) Councelic Suffix: Owner Name: (First) (Last) Cound-theoretic Suffix: POD / Suffice Data Report Arg Depth to Water Report Water Report Water Column Report POD / Suffice Data Report Arg Depth to Water Report Water Report Water Column Report POD / Suffice Data Report ILast) Counters are Jawn 2-ME 3-M 4-SE State And Stat				New Mexico Of POD Repo	of the State 1 rts and Downlo:	Engineer Ads				
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New Mexico Office of the State Engineer



New Mexico Office of the State Engineer POD Reports and Downloads	Township: 195 Range: 36E Sections: 35,36	AD27 X: Y: Zone: Search Radius:	→ Basin: Suffix: Suffix:	e: (First) (Last) Concertic Concertic GAII	/ Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form WATERS Menu Help
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POD / SURFACE DATA REPORT 11/24/2007

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L 04715	EOM _	L. M	CLIMAN CHEMICAL COMPANY	L 04715	***	195	36E 35 4 3				57	657369	3609442	
				L 04715 APPRO EX	<u>e</u> i	195	36E 35 4 3				13	657369	3609442	
L 04716	NOG -	e e	LINAX CHEMICAL COMPANY	L 04716	ļ	19S	36E 36 3				13	658376	3609656	
				L 04716 APPRO EX	P4	19S	362 36 3				6 6	658376	3609656	
L 04755	EKP	0	JLIMAN CHEMICAL COMPANY	L 04755 EXPL	***	19S	362 35 4 4				13	657772	3609448	
L 04756	EXP	л С	JEIMAX CHEMICAL COMPANY	L 04756 EXPL	Shallow	19S	368 35 2				13	657557	3610449	Ę

Record Count: 9
New Mexico Office of the State Engineer

NAD27 X:	Y: Zone: Search Radius:
County: LE <u>•</u> Basin:	Number: Suffix:
Owner Name: (First)	(Last) C Non-Domestic C Domestic • A
POD / Surface Data Report	Avg Depth to Water Report / Water Column Report

WATER COLUMN REPORT 11/24/2007

(qu	arter	s are	∍ 1=)	NW 2	2=NE	3=SW 4=S	E)					
(qu	arter	s are	e bi	gge	st to	smalles	;t)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	qq	РГ	Zone	x	Y	Well	Water	Column	
<u>L 03814</u>	20S	36E	01	2	2 2				60	40	20	
L 03814 APPRO	20S	36E	01	2 3	2 2				60	40	20	
L 03815 APPRO EXP	205	36E	01	2 :	22				60	40	20	
L 03188 APPRO	205	36E	01	4	12							
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Record Count: 6

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New Mexico Office of the State Engineer

Page 1 of 1

New Mexico) Office	of the	State	Engineer
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WATER COLUMN REPORT 11/24/2007

	(quarter: (quarter:	s are s are	e 1=1 e bid	NW 2: gges	=NE t to	3=SW 4=S smalles	E) t)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	qq	q	Zone	x	Y	Well	Water	Column	
L 04756 EXPL	195	36Ē	35	2					250	70	180	
L 03921 APPRO	19S	36E	35	34					75	50	25	
L 03921	19S	36E	35	34					75	50	25	

Record Count: 3



Back

72121 All Applications Under Statute 72-12-1

Trn nbr: 204123 Trn desc:L 03188 File Date: 04/12/1956 Primary status: PMT Permit Secondary status: APR Approved Person assigned: ****** Applicant: AMERADA PETROLEUM CORPORATION Events Date Туре Description Comment Processed By 04/12/1956 ***** APP Application Received ***** 05/10/1956 FIN Final Action on application ***** 05/10/1956 WAP General Approval Letter DB File Nbr Diversion Consumptive Purpose of Use Acres L 03188 0 3 Ω PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURC Point of Diversion L 03188 20S 36E 01 SE NW NE in Lea County Remarks ET FILED 4/11/57PLUGGING RECORD DUE ON OR BEFORE 4/30/58. ΕТ FILED 3/19/58PLUGGING RECORD DUE ON OR BEFORE 3/31/59. FILED 3/26/59PLUGGING RECORD DUE ON ĒΤ OR BEFORE 3/31/60. ET FILED 3/21/60PLUGGING RECORD DUE ON OR BEFORE 4/30/61. ET FILED 3/20/61PLUGGING RECORD DUE ON OR BEFORE 4/30/62. THIS IS AN OLD WATER WELL COMPLETED IN NOV., 1951. WE HAVE A LOCATION IN THIS IMMEDIATE AREA & REQUEST PERMISSION TO REENTER THIS WATER WELL FOR DRILLING PURPOSES ONLY. Conditions A :The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year. D : The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown. 6A : The oil well is to be plugged upon completion of the oil well drilling operations. Action of the State Engineer PLUGGING RECORD DUE ON OR BEFORE 4/30/57 Approval Code: A Approved Action Date: 05/10/1956 State Engineer: By:

Back

72121 All Applications Under Statute 72-12-1

Trn_nbr: 205030

Trn desc:L 03814

File Date: 03/14/1958

Primary status: PMT Permit Secondary status: LOG Well Log Received Person assigned: ****** Applicant: W. C. BYRD

Events

Date	Type	Description	Comment	Processed By
03/14/1958	APP	Application Received	*	*****
04/02/1958	FIN	Final Action on application		****
04/02/1958	WAP	General Approval Letter		****
09/15/1958	LOG	Well Log Received	*	* * * * * *
	Date 03/14/1958 04/02/1958 04/02/1958 09/15/1958	Date Type 03/14/1958 APP 04/02/1958 FIN 04/02/1958 WAP 09/15/1958 LOG	DateTypeDescription03/14/1958APPApplication Received04/02/1958FINFinal Action on application04/02/1958WAPGeneral Approval Letter09/15/1958LOGWell Log Received	DateTypeDescriptionComment03/14/1958APPApplication Received*04/02/1958FINFinal Action on application04/02/1958WAPGeneral Approval Letter09/15/1958LOGWell Log Received*

DB	File_Nbr	Acres	Diversion		Consumptive	Purp	ose of t	Jse		
L	03814	0	3	0		DOM	72-12-1	DOMESTIC	ONE	HOUSEHOLD

Point of Diversion L 03814

03814 20S 36E 01 NE NE in Lea County

Remarks

WELL ALSO USED FOR LIVESTOCK WATERING

Conditions

- A :The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B :The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- D :The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- 4 :Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

Approval Code: A Approved Action Date: 04/02/1958 log due date: 04/02/1959 State Engineer: By:

Back

72121 All Applications Under Statute 72-12-1

Trn_nbr: 206246

Trn desc:L 04736

File Date:10/13/1961

Primary status: PMT Permit Secondary status: LOG Well Log Received Person assigned: ****** Applicant: CLIMAX CHEMICAL COMPANY

Events

Date	Туре	Description	Comment		Processed By
10/13/1961	APP	Application Received	*		*****
10/17/1961	FIN	Final Action on application			*****
10/17/1961	WAP	General Approval Letter			****
11/01/1961	LOG	Well Log Received	· *		***
		•		-	

DB	_File_Nbr	Acres	Diversion	Consumptive	Purpose of Use	
L	04736	0	3	0	DOM 72-12-1 DOMESTIC ONE HOUSEHO	LD

Point of DiversionL0473620S36E02NWNWinLeaCounty

Remarks

THE ABOVE WATER WLL BE USED BY APPLICANT IN CONNECTION WITH THE USE OF ITS CHEMICAL PLANT TO BE CONSTRUCTED UPON THE PREMISES FOR USE BY EMPLOYEES. THE WATER TO BE USED FOR SANITARY AND OFFICE PURPOSES AND NOT TO BE USED FOR THE ACTUAL FUNCTION OF THE PLANT. IN THIS CONNECTION APPLICANT INTENDS TO WITHDRAW APPLICATION L-4715 BY REASON OF THE FACT THAT WATER WAS UNOBTAINABLE IN SAID LOCATION.

Conditions

- 4 :Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- D :The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- 1B :Depth of the well shall not exceed the thickness of the Ogallala formation.
- 3 :Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.

Action of the State Engineer

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Approval Code: A Approved
Action Date: 10/17/1961
log due date: 10/17/1962
State Engineer:
By:
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Back

72121 All Applications Under Statute 72-12-1

Trn_nbr: 200456

Trn desc:L 01270

File Date:10/01/1951

Primary status: CAN Cancelled Permit Secondary status: FIN Finalized Person assigned: ****** Applicant: GULF OIL CORPORATION

Events

Date	Type	Description	Comment	Processed By
10/01/1951	APP	Application Received	*	*****
05/10/1953	FIN	Final Action on application		****
05/10/1953	WAP	General Approval Letter		****
05/13/1953	FCN	Finalize Cancel of permit		* * * * * *

DB	_File_Nbr	Acres	Diversion		Consumptive	Purj	pose of I	Use		
L	01270	0	3	0		MUL	72-12-1	MULTIPLE	DOMESTIC	HOUSEHOLDS

Point of DiversionL0127019S36E36ESESENEInLeaCounty

Remarks

EXISTING WELL ORIGINALLY DRILLED FOR DEVELOPMENT OF LEASE. WATER NOW USED FOR DOSMESTIC PURPOSES SERVING COMPANY HOUSES LOCATED ON THE LEASE. PCW RECEIVED 12/02/52

Conditions

- A :The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- D :The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- 6 :The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.

Action of the State Engineer

Approval Code: A Approved Action Date: 05/10/1953 State Engineer: By: Back

72121 All Applications Under Statute 72-12-1

County

Trn_nbr: 205239

Trn desc:L 03921

File Date:07/11/1958

Primary status: PMT Permit Secondary status: LOG Well Log Received Person assigned: ****** Applicant: T. E. MUSICK

Events

Date	Туре	Description	Comment	Processed By
07/11/1958	APP	Application Received	*	****
07/11/1958	FIN	Final Action on application		****
07/11/1958	WAP	General Approval Letter		****
07/25/1958	LOG	Well Log Received	*	* * * * * *

DB	File Nbr	Acres	Diversion	Consumptive	Purpose of Use
L	03921	0	3 0		STK 72-12-1 LIVESTOCK WATERING

Point of Diversion L 03921

Conditions

4 :Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

195 36E 35 SW SE in Lea

- 1A :Depth of the well shall not exceed the thickness of the valley
 fill.
- 1B :Depth of the well shall not exceed the thickness of the Ogallala formation.
- D :The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- 3 :Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.

Action of the State Engineer

Approval Code: A Approved Action Date: 07/11/1958 log due date: 07/30/1959 State Engineer: By:

Back

72121 All Applications Under Statute 72-12-1

Trn nbr: 206194

Trn desc:L 04715

File Date:09/06/1961

Primary status: PMT Permit Secondary status: APR Approved Person assigned: ******* Applicant: CLIMAX CHEMICAL COMPANY

Events

Date	Type	Description	Comment	Processed By
09/06/1961	APP	Application Received	*	****
09/07/1961	FIN	Final Action on application		****
09/07/1961	WAP	General Approval Letter		*** **

DB	_File_Nbr	Acres	Diversion		Consumptive	Purp	ose of 1	Use		
L	04715	0	3	0		DOM	72-12-1	DOMESTIC	ONE	HOUSEHOLD

Point of Diversion

L 04715 19S 36E 35 SE SW in Lea County

Remarks

THE ABOVE WATER WILL BE USED BY THE APPLICANT FOR PURPOSES IN CONNECTION WITH THE USE OF ITS PLANT TO BE CONSTRUCTED UPON THE PERMISES FOR USE BY EMPLOYEES. THE PROPOSED WELL IS TO BE USED FOR SANITARY AND OFFICE PURPOSES AND NOT TO BE USED WITH THE ACTUAL FUNCTION OF THE PLANT.

Conditions

- 4 :Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 1B :Depth of the well shall not exceed the thickness of the Ogallala formation.
- D :The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- 3 :Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.

Action of the State Engineer

Approval Code: A Approved Action Date: 09/07/1961 log due date: 09/30/1962 State Engineer: By:

Back

72121 All Applications Under Statute 72-12-1

Trn nbr: 206197

Trn desc:L 04716

File Date:09/06/1961

Primary status: PMT Permit Secondary status: APR Approved Person assigned: ****** Applicant: CLIMAX CHEMICAL COMPANY

Events

Date	Type	Description	Comment	Processed By
09/06/1961	APP	Application Received	*	*****
09/07/1961	FIN	Final Action on application		****
09/07/1961	WAP	General Approval Letter		***

DB	File Nbr	Acres	Diversio	n	Consumptive	Pur	pose of 1	Use		
L T	04716	0	3	0		DOM	72-12-1	DOMESTIC	ONE	HOUSEHOLD
	Point of Div	version								

L 04716 19S 36E 36 SW in Lea County

Remarks

APPLICANT WILL RECEIVE FROM THE STATE OF NM, A BUSINESS LEASE UPON THE ABOVE DESCRIBED PROPERTY WITH PERMISSION TO PLACE THEREON ITS OFFICE BUILDING AND WATER TO BE APPLIED FOR DOMESTIC PURPOSES AROUND THE OFFICE SITE.

Conditions

- 4 :Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- D :The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- 1B :Depth of the well shall not exceed the thickness of the Ogallala formation.
- 3 :Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.

Action of the State Engineer

Approval Code: A Approved Action Date: 09/07/1961 log due date: 09/30/1962 State Engineer: By: