

1R - 428-58

**GENERAL
CORRESPONDENCE**

YEAR(S):
2008

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Tuesday, September 16, 2008 4:28 PM
To: 'Hack Conder'
Cc: 'Marvin Burrows'; Johnson, Larry, EMNRD; Price, Wayne, EMNRD; 'Katie Lee'
Subject: RE: Hobbs SWD F-33 Vent (#1R428-58) Closure Report - Additional Information Required

Dear Mr. Conder:

The New Mexico Oil Conservation Division (NMOCD) has reviewed the Response to NMOCD Regarding Additional Information Required, dated July 17, 2008, Hobbs SWD F-33 vent (#1R428-58) submitted by R. T. Hicks Consultants, Ltd. The corrected results for the BTEXN analyses indicate that additional soil samples are not required. Therefore, the NMOCD rescinds the request for additional information as specified below. However, please provide a final Closure Report Addendum to the NMOCD by Monday, November 17, 2008 to include the re-seeding and fencing of the site. The NMOCD will consider termination of the remediation plan (#1R428-58) at that time.

If you have questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

P.S.: Please use the NMOCD case # on future correspondence regarding the site listed above.

From: Hansen, Edward J., EMNRD
Sent: Monday, June 30, 2008 6:32 PM
To: 'Hack Conder'
Cc: 'Marvin Burrows'; Johnson, Larry, EMNRD; Price, Wayne, EMNRD; 'Katie Lee'
Subject: Hobbs SWD F-33 Vent (#1R428-58) Closure Report - Additional Information Required

Dear Mr. Conder:

The New Mexico Oil Conservation Division (NMOCD) has reviewed the submitted Closure Report, dated January 17, 2008, Hobbs SWD F-33 vent submitted by R. T. Hicks on 1/22/2008 (#1R428-58). The NMOCD cannot approve the Closure Report at this time. The NMOCD is requiring additional information regarding this site. Since the NMOCD did not have all site information available at the time of the verbal approval of the Corrective Action Plan, additional BTEXN analysis is required prior to approval of the Closure Report. Please provide the BTEXN analytical results at the former vent site at a depth where a PID reading is at 100 ppm or less. (An acceptable soil sample may be obtained using a low profile direct-push soil sampler.) In addition, please provide a plan to re-seed and fence the site.

Please provide a schedule to the NMOCD by Thursday, July 24, 2008 for the collection of the soil samples and submittal of the analytical data. Also by 7/24/08, please submit the plan for reseed and fencing the site.

If you have questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

P.S.: Please use the NMOCD case # on future correspondence regarding the site listed above.

9/16/2008

Hansen, Edward J., EMNRD

From: Katie Lee [katie@rthicksconsult.com]
Sent: Friday, August 15, 2008 5:51 PM
To: Hansen, Edward J., EMNRD
Cc: Hack Conder; Randall Hicks (Randall Hicks)
Subject: Meeting notes, 8-14-08

Ed,

Thanks so much for taking the time to discuss Hobbs F-29-1a (NMOCD # 1R0428-44) and Hobbs F-33 Vent (NMOCD # 1R0428) with me today. Just to summarize, here are the main points we talked about.

Hobbs F-29-1a

- 1. ROC completed all of the work elements identified in the NMOCD approved CAP:
 - 1. The site is re-vegetated
 - 2. Ground water in the shallow well has met WQCC standards for 8+ quarters
- 1. COCs in the deep well are due to up gradient, possibly regional sources
- 1. Results of annual sampling of the well will be reported in the annual report of a nearby open Section 29 site

NMOCD action: Close site

Hobbs F-33 Vent

- 1. Previous submission mistakenly showed regulated hydrocarbons, corrected data submitted to NMOCD
- 1. Soil at site meets generally accepted NMOCD closure criteria for chloride and regulated hydrocarbons
- 1. ROC proposes to document re-vegetation at site then request final site closure

NMOCD action: rescind request for additional borings at site, agree to closure after re-vegetation

Thanks again for your time on Thursday. If you have any questions or concerns, please let me know; I'm available to run up to Santa Fe anytime it would be helpful to meet. As always, we respectfully request formal closure of each site in writing.

Best regards,

Katie Lee
Project Scientist
R.T. Hicks Consultants, Ltd.
ph. 505-266-5004
fax 505-266-0745
mobile 505-400-7925

9/16/2008

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Hansen, Edward J., EMNRD

From: Katie Lee [katie@rthicksconsult.com]
Sent: Wednesday, July 30, 2008 5:50 PM
To: Hansen, Edward J., EMNRD
Cc: Hack Conder; Randall Hicks (Randall Hicks)
Subject: meeting on Thursday, August 7th

Ed,

Glad we were able to catch up today. To confirm, I plan to meet with you briefly at your office in Santa Fe regarding two Rice Operating Company sites and submissions associated with them on Thursday, August 7th at 2pm.

The two sites I'm interested in discussing are:

Hobbs F-33 Vent, NMOCD Case #1R0428-58
Hobbs F-29-1a Vent, NMOCD Case #1R0428-44

I'll look forward to seeing you then.

Best regards,

Katie Lee
Project Scientist
R.T. Hicks Consultants, Ltd.
ph. 505-266-5004
fax 505-266-0745
mobile 505-400-7925

This inbound email has been scanned by the MessageLabs Email Security System.

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

July 17, 2008

Mr. Ed Hansen
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: NMOCD Case # 1R0428-58, F-33 Vent
Hobbs SWD System Abandonment
Response to NMOCD Regarding Additional Information Required

Dear Mr. Hansen:

This letter is in response to your June 30th request for additional information at the above referenced site. In reviewing the Corrective Action Plan submitted on January 15th, 2007 and our January 17th, 2008 Closure Report, we conclude that sufficient data already exists to address NMOCD concerns regarding hydrocarbons beneath the former vent and that the site presents no threat to human health or the environment. We regret not presenting the collected data in a more cogent manner in the Corrective Action Plan and seek to better illustrate the results of ROC work at this site in this submission.

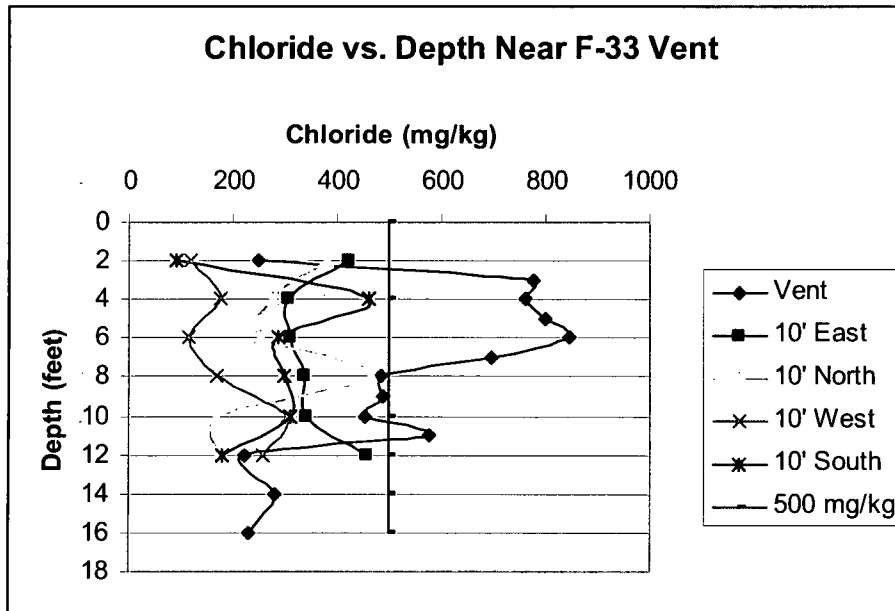
Work Done

In 2006 and 2007, characterization and work at F-33 Vent included:

1. Sampling through the vent area to a total depth of 16 feet at 1 foot intervals to 12 feet below ground surface (bgs) and at 2 foot intervals from 12-16 feet bgs.
2. Sampling to a total depth of 12 feet at points 10 feet to the north, south, east, and west of the vent, 2 foot intervals.
3. Samples were field tested for chloride content and screened with a photoionization detector (PID) for hydrocarbons. Soil samples were also submitted to a laboratory for more detailed hydrocarbon analysis.
4. An excavation 10 x 10 x 12 feet at the vent site was completed and ROC removed 18 cubic yards of soil from the site and backfilled the site with a soil mixture with less than 100 ppm total organic vapors and less than 1,000 ppm chloride.
5. A 10-12" clay barrier was installed about 4-feet below ground surface and sloped to the southeast to deflect any potential infiltrating water through the site.
6. Soil borings on either side of the vent were advanced with a hollow stem auger to a total depth of 50 feet. These borings confirmed no chloride or hydrocarbon impact at their locations 22 feet east and 30 feet west of the vent.

Figure 1 shows chloride vs. depth data (before implementation of the remedy) for soils at the vent and in four directions 10' from the vent. As Figure 1 shows, observed chloride

levels were below 500 mg/kg at the four borings near the vent. At the vent itself, chloride levels are below 300 mg/kg from 12 feet below ground surface downward. Rice excavated the material between ground surface and 12 feet, transported 18 cubic yards of soil to disposal, placed a clay layer at 4-feet below grade and covered the clay with soil.



Results of PID field screening for the boring through the vent (before the remedy) and the four borings near the vent are presented in Figure 2.

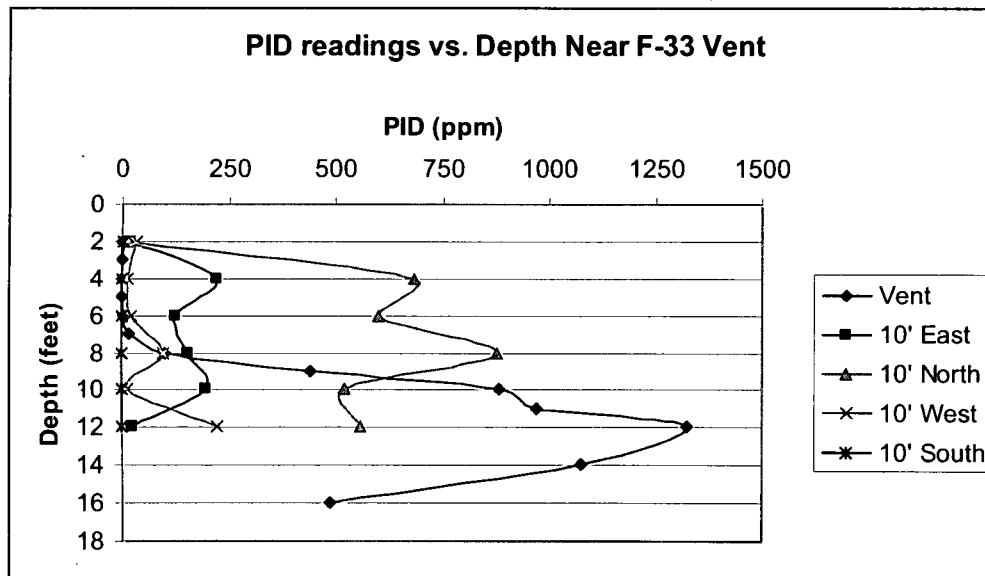


Table 1. PID at Vent Prior to Remedy

Depth (feet)	PID (ppm)
2	0
3	0
4	0.4
5	0
6	3.2
7	18.8
8	101
9	442
10	883
11	970
12	1322
14	1076
16	488

At the vent, PID readings were above 1,000 ppm at 12 and 14 feet below ground surface, shown in Table 1. The soil samples collected from 12 and 16 feet below ground surface at the vent as well as soil

samples from the 4 four borings nearby were submitted for laboratory analysis of hydrocarbons. In our 2007 CAP, we reported the following results for these analyses presented in Table 2 below. Unfortunately, this table contains a few errors in unit conversion, noted with yellow highlight.

Table 2. Laboratory Results Reported in 2007 CAP, F-33 Vent

Location	Depth (Ft bgs)	Regulated Hydrocarbons			
		B	T	E	X
Vent Source	12'	<0.025	<0.025	37.7	65.3
	16'	<0.025	<0.025	27.7	0.3
10 ft east of Vent	4'	<0.025	<0.025	0.513	0.429
	12'	<0.025	<0.025	0.516	<0.025
10 ft west of Vent	12'	<0.025	<0.025	0.117	0.058
10 ft north of vent	8'	<0.025	<0.025	0.094	0.59
	12'	<0.025	<0.025	0.073	0.293

Comparison of Table 2 with the laboratory analysis reveals errors in the reported results. Laboratory analysis for some of the ethylbenzene and total xylenes were significantly lower than those presented. Table 3 presents correct values as reported by the lab, corrected values are highlighted in blue. Appendix A presents the chain of custody and laboratory results for these analyses, pages 9 and 10 of this report show the noted results with blue highlights.

Table 3. Correct Laboratory Results and PID Values, F-33 Vent

Location	Depth (Ft bgs)	Regulated Hydrocarbons				Total BTEX	PID
		B	T	E	X		
Vent Source	12'	<0.025	<0.025	3.77	0.17	3.94	1322
	16'	<0.025	<0.025	0.28	0.03	0.31	488
10 ft east of Vent	4'	<0.025	<0.025	0.05	0.429	0.48	221
	12'	<0.025	<0.025	0.05	<0.025	0.05	26.9
10 ft west of Vent	12'	<0.025	<0.025	0.117	0.058	0.18	223
10 ft north of vent	8'	<0.025	<0.025	0.094	0.59	0.68	877
	12'	<0.025	<0.025	0.073	0.293	0.37	560

As Table 3 shows, Benzene is below 0.2 mg/kg and total BTEX is below 50 mg/kg at both 12 and 16 feet below ground surface at the vent and hydrocarbon levels decrease with depth. PID levels for these same soil samples show that the PID consistently over predicted hydrocarbons in soil at the time of analysis. It is possible the PID was incorrectly calibrated, or soil was too moist at the time of field screening, but it remains clear that the PID is effective at evaluating when hydrocarbons in soil are very low.

The remedy at this site called for excavation of a 10 x 10 x 12 foot area at the vent location and removal of the most impacted soil. ROC removed 18 cubic yards of

July 23, 2008

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hydrocarbon impacted soil (40% of the total excavated volume) and backfilled with a mixture of clean dirt and remaining soil. This soil exhibited a PID reading of 28.1 and 49.7 as reported in ROC's VOC Field Test Report dated 8/17/07 (See Appendix B for waste manifests and this report). The chloride level for a composite sample from the backfill was confirmed by a laboratory to be 128 mg/kg (Appendix B).

We conclude that any significant hydrocarbon impacted soil was removed at the site and that existing data confirms that soil beneath the clay barrier that was installed as part of the remedy meets NMOCD standards for buried soil in areas where the depth to water is 50-100 feet below ground surface. The depth to water at this site is about 65 feet and laboratory analyses of hydrocarbons in soil at 16 feet below ground surface show that soil meets standards.

Upon review of this data, we hope the NMOCD will reconsider its request for deep sampling at the vent location. Upon confirmation of NMOCD acceptance of this data, we propose to fence and re-seed the site to effectively achieve the previously proposed vegetative barrier and provide evidence of re-vegetation to NMOCD prior to re-requesting closure.

We respectfully request NMOCD respond to this report in writing. Thank you for your attention to this matter.

Sincerely,
R.T. Hicks Consultants, Ltd.



Katie Lee
Project Scientist

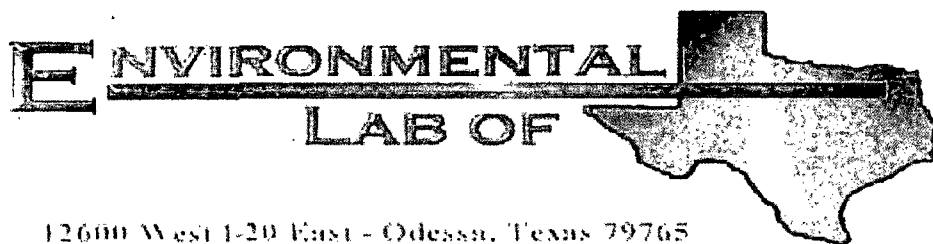
Copy: Rice Operating Company
Hobbs NMOCD Office

Appendix A

Laboratory Analysis

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: F-33 Vent (UN0080)

Project Number: Hobbs Abandonment

Location: T18S, R38E, Sec. 33, Unit Letter F

Lab Order Number: 6E25001

Report Date: 06/06/06

Rice Operating Co
122 W Taylor
Hobbs NM, 88240

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source 12'	6E25001-01	Soil	05/22/06 10:30	05/25/06 08:00
Source 16'	6E25001-02	Soil	05/22/06 11:10	05/25/06 08:00
10' east 4'	6E25001-03	Soil	05/22/06 11:55	05/25/06 08:00
10' east 12'	6E25001-04	Soil	05/22/06 14:04	05/25/06 08:00
10' north 8'	6E25001-05	Soil	05/22/06 14:10	05/25/06 08:00
10' north 12'	6E25001-06	Soil	05/22/06 14:25	05/25/06 08:00
10' west 12'	6E25001-07	Soil	05/22/06 14:50	05/25/06 08:00

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

Project: F-33 Vent (UN0080),
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Source 12' (6E25001-01) Soil									
Carbon Ranges C6-C12	2250	20.0	mg/kg dry	2	EF60219	06/02/06	06/05/06	EPA 8015M	
Carbon Ranges C12-C28	9470	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	1000	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	12700	20.0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		67.4 %	70-130		"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		59.6 %	70-130		"	"	"	"	S-06
Source 16' (6E25001-02) Soil									
Carbon Ranges C6-C12	1120	20.0	mg/kg dry	2	EF60219	06/02/06	06/05/06	EPA 8015M	
Carbon Ranges C12-C28	9970	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	1330	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	12400	20.0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		58.4 %	70-130		"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		58.2 %	70-130		"	"	"	"	S-06
10' east 4' (6E25001-03) Soil									
Carbon Ranges C6-C12	596	20.0	mg/kg dry	2	EF60219	06/02/06	06/05/06	EPA 8015M	
Carbon Ranges C12-C28	8900	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	1580	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	11100	20.0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		52.8 %	70-130		"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		54.2 %	70-130		"	"	"	"	S-06
10' east 12' (6E25001-04) Soil									
Carbon Ranges C6-C12	24.8	20.0	mg/kg dry	2	EE62507	05/25/06	05/26/06	EPA 8015M	
Carbon Ranges C12-C28	978	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	202	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	1200	20.0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		52.6 %	70-130		"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		55.2 %	70-130		"	"	"	"	S-06

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.

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Rice Operating Co.
122 W. Taylor
Hubbs NM, 88240

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
10' north 8' (6E25001-05) Soil									
Carbon Ranges C6-C12	1540	20.0	mg/kg dry	2	EE60219	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C12-C28	6860	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	602	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	9000	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		69.6 %	70-130	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		68.2 %	70-130	"	"	"	"	"	S-06
10' north 12' (6E25001-06) Soil									
Carbon Ranges C6-C12	1450	20.0	mg/kg dry	2	EE60219	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C12-C28	6910	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	625	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	8980	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		66.8 %	70-130	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		69.8 %	70-130	"	"	"	"	"	S-06
10' west 12' (6E25001-07) Soil									
Carbon Ranges C6-C12	877	20.0	mg/kg dry	2	EE62507	05/15/06	05/28/06	EPA 8015M	
Carbon Ranges C12-C28	6750	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	603	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	8230	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		57.4 %	70-130	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		59.4 %	70-130	"	"	"	"	"	S-06

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

Page 3 of 21

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Fractionation of Aliphatics by TNRCC Method 1006
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Source 12' (6E25001-01) Soil									
C6-C8	50.8	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	
>C8-C10	421	10.0	"	"	"	"	"	"	
>C10-C12	892	10.0	"	"	"	"	"	"	
>C12-C16	2460	10.0	"	"	"	"	"	"	
>C16-C21	2300	10.0	"	"	"	"	"	"	
>C21-C35	1690	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	7810	10.0	"	"	"	"	"	"	
Source 16' (6E25001-02) Soil									
C6-C8	ND	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	
>C8-C10	110	10.0	"	"	"	"	"	"	
>C10-C12	335	10.0	"	"	"	"	"	"	
>C12-C16	1540	10.0	"	"	"	"	"	"	
>C16-C21	1830	10.0	"	"	"	"	"	"	
>C21-C35	1440	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	5260	10.0	"	"	"	"	"	"	
10' east 4' (6E25001-03) Soil									
C6-C8	ND	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	
>C8-C10	45.4	10.0	"	"	"	"	"	"	
>C10-C12	383	10.0	"	"	"	"	"	"	
>C12-C16	1800	10.0	"	"	"	"	"	"	
>C16-C21	2300	10.0	"	"	"	"	"	"	
>C21-C35	2660	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	7190	10.0	"	"	"	"	"	"	
10' north 8' (6E25001-05) Soil									
C6-C8	ND	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	
>C8-C10	268	10.0	"	"	"	"	"	"	
>C10-C12	941	10.0	"	"	"	"	"	"	
>C12-C16	2650	10.0	"	"	"	"	"	"	
>C16-C21	2470	10.0	"	"	"	"	"	"	
>C21-C35	1840	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	8170	10.0	"	"	"	"	"	"	

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

Page 4 of 21

Rice Operating Co.
122 W. Taylor
Hobbs NM. 88240

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Fractionation of Aliphatics by TNRCC Method 1006
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10' north 12' (6E25001-06) Soil									
C6-C8	ND	10.0	mg/kg dry	1	FF60608	06/02/06	06/06/06	TX 1006	
>C8-C10	126	10.0	"	"	"	"	"	"	
>C10-C12	611	10.0	"	"	"	"	"	"	
>C12-C16	1840	10.0	"	"	"	"	"	"	
>C16-C21	1710	10.0	"	"	"	"	"	"	
>C21-C35	1210	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	5500	10.0	"	"	"	"	"	"	

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Fractionation of Aromatics by TNRCC Method 1006
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Source 12' (6E25001-01) Soil									
C7-C8	J [6.44]	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	J
>C8-C10	69.5	10.0	"	"	"	"	"	"	
>C10-C12	290	10.0	"	"	"	"	"	"	
>C12-C16	1340	10.0	"	"	"	"	"	"	
>C16-C21	1760	10.0	"	"	"	"	"	"	
>C21-C35	1670	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	5130	10.0	"	"	"	"	"	"	
Source 16' (6E25001-02) Soil									
C7-C8	J [5.77]	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	J
>C8-C10	46.7	10.0	"	"	"	"	"	"	
>C10-C12	146	10.0	"	"	"	"	"	"	
>C12-C16	769	10.0	"	"	"	"	"	"	
>C16-C21	1340	10.0	"	"	"	"	"	"	
>C21-C35	1390	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	3690	10.0	"	"	"	"	"	"	
10' east 4' (6E25001-03) Soil									
C7-C8	J [5.79]	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	J
>C8-C10	45.8	10.0	"	"	"	"	"	"	
>C10-C12	55.7	10.0	"	"	"	"	"	"	
>C12-C16	669	10.0	"	"	"	"	"	"	
>C16-C21	1850	10.0	"	"	"	"	"	"	
>C21-C35	2880	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	5500	10.0	"	"	"	"	"	"	
10' north 8' (6E25001-05) Soil									
C7-C8	J [5.13]	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	J
>C8-C10	62.1	10.0	"	"	"	"	"	"	
>C10-C12	302	10.0	"	"	"	"	"	"	
>C12-C16	1070	10.0	"	"	"	"	"	"	
>C16-C21	1520	10.0	"	"	"	"	"	"	
>C21-C35	1230	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	4180	10.0	"	"	"	"	"	"	

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

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Fractionation of Aromatics by TNRCC Method 1006
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Date	Prepared	Analyzed	Method	Notes
10' north 12' (6E25001-06) Soil									
C7-C8	J [4.16]	10.0	mg/kg dry	1	EF60608	06/02/06	06/06/06	TX 1006	J
>C8-C10	49.2	10.0	"	"	"	"	"	"	
>C10-C12	229	10.0	"	"	"	"	"	"	
>C12-C16	882	10.0	"	"	"	"	"	"	
>C16-C21	1120	10.0	"	"	"	"	"	"	
>C21-C35	984	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	3260	10.0	"	"	"	"	"	"	

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Source 12' (6E25001-01) Soil									
% Moisture	11.1	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	
Source 16' (6E25001-02) Soil									
Chloride	143	10.0	mg/kg	20	EE63005	05/29/06	05/29/06	EPA 300.0	
% Moisture	14.0	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	
10' east 4' (6E25001-03) Soil									
Chloride	341	10.0	mg/kg	20	EE63005	05/29/06	05/29/06	EPA 300.0	
% Moisture	9.8	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	
10' east 12' (6E25001-04) Soil									
% Moisture	8.7	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	
10' north 8' (6E25001-05) Soil									
% Moisture	4.3	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	
10' north 12' (6E25001-06) Soil									
% Moisture	3.7	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	
10' west 12' (6E25001-07) Soil									
% Moisture	4.6	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	

Environmental Lab of Texas

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Rock County, Texas
 72 W. Taylor
 P.O. Box 8524

Project: 155 Vent, E 50809
 Project Number: 1000, Abandonment
 Project Manager: Krista L. Offord

Lab: 1809, 09-1171
 Reported:
 01/09/01

Volatile Organic Compounds by EPA Method 8260B Environmental Lab of Texas

Sample	Result	Reporting Unit	Conc	Unit	Detected	Prepared	Analysis	Method	Lab
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Source 12 (0E25001-01) Soil

Acetone	510	50.0	1.264	mg/kg	1/16/00	1/16/00	0.0000	EPA 8260B	
Ethanol	510	50.0							
Ethylbenzene	3770	50.0							
Xylene (p,m)	171	50.0							
Xylene (o)	1148.31	50.0							
Naphthalene	4500	50.0							
1,2-Dichloroethane		50.0	70.0	mg/kg					
1,1-Dichloroethane		50.0	7.0	mg/kg					
1,1,1-Trichloroethane		50.0	6.0	mg/kg					
1,1,2-Trichloroethane		50.0	6.0	mg/kg					

Source 10 (0E25001-02) Soil

Acetone	510	50.0	1.264	mg/kg	1/16/00	1/16/00	0.0000	EPA 8260B	
Ethanol	510	50.0							
Ethylbenzene	177	50.0							
Xylene (p,m)	18.2	50.0							
Xylene (o)	511	50.0							
Naphthalene	178	50.0							
1,2-Dichloroethane		50.0	70.0	mg/kg					
1,1-Dichloroethane		50.0	7.0	mg/kg					
1,1,1-Trichloroethane		50.0	6.0	mg/kg					

10' East 4 (0E25001-03) Soil

Acetone	510	50.0	1.264	mg/kg	1/16/00	1/16/00	0.0000	EPA 8260B	
Ethanol	510	50.0							
Ethylbenzene	51.3	50.0							
Xylene (p,m)	114.1	50.0							
Xylene (o)	118.81	50.0							
Naphthalene	200	50.0							
1,2-Dichloroethane		50.0	70.0	mg/kg					
1,1-Dichloroethane		50.0	7.0	mg/kg					
1,1,1-Trichloroethane		50.0	6.0	mg/kg					
1,1,2-Trichloroethane		50.0	6.0	mg/kg					

Environmental Lab of Texas

1000 W. Taylor, Suite 100, Rock County, Texas 79705
 Phone: 817-380-1171 Fax: 817-380-1172
 Website: www.elt-lab.com

Page 1 of 1
 01/09/01

Request ID: 11700	Project: E-53 Vent of No. 800	Lab: 130507000001
122 W. 1st St	Project Number: 11010000000000000000	Requested:
HAPE: N/A, 88200	Project Manager: Kristin L. Turner-Pope	06/05/00 15:00

Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Sample	Conc.	Unit	Propane	Acetylene	Propene	Acetylene	Butadiene	Isobutene
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10 - east 12 - 06125001-004 Soil

Acetylene	510	28.0	mg/kg dry	25	1.000000	1.000000	25.000000	1.000000
Propene	510	28.0						
Ethylbenzene	510	28.0						
Xylene (p+o)	510	28.0						
Xylene (m)	510	28.0						
Naphthalene	995	28.0						
Acetylene (Total) (mg/kg dry)		28.0	1.000000					
Propene (Total) (mg/kg dry)		28.0	1.000000					
Ethylbenzene (Total) (mg/kg dry)		28.0	1.000000					
Xylene (Total) (mg/kg dry)		28.0	1.000000					
Naphthalene (Total) (mg/kg dry)		28.0	1.000000					

10 - north 8 - 06125001-005 Soil

Acetylene	510	28.0	mg/kg dry	25	1.000000	1.000000	25.000000	1.000000
Propene	510	28.0						
Ethylbenzene	938	28.0						
Xylene (p+o)	254	28.0						
Xylene (m)	336	28.0						
Naphthalene	193	28.0						
Acetylene (Total) (mg/kg dry)		28.0	1.000000					
Propene (Total) (mg/kg dry)		28.0	1.000000					
Ethylbenzene (Total) (mg/kg dry)		28.0	1.000000					
Xylene (Total) (mg/kg dry)		28.0	1.000000					
Naphthalene (Total) (mg/kg dry)		28.0	1.000000					

10 - north 12 - 06125001-006 Soil

Acetylene	510	28.0	mg/kg dry	25	1.000000	1.000000	25.000000	1.000000
Propene	510	28.0						
Ethylbenzene	728	28.0						
Xylene (p+o)	101	28.0						
Xylene (m)	192	28.0						
Naphthalene	202	28.0						
Acetylene (Total) (mg/kg dry)		28.0	1.000000					
Propene (Total) (mg/kg dry)		28.0	1.000000					
Ethylbenzene (Total) (mg/kg dry)		28.0	1.000000					
Xylene (Total) (mg/kg dry)		28.0	1.000000					
Naphthalene (Total) (mg/kg dry)		28.0	1.000000					

Environmental Lab of Texas

For more information, please contact the laboratory at 1-800-875-8758 or 1-800-875-8759. The laboratory is located at 122 W. 1st St., Suite 100, Houston, TX 77002.

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Krisun Harris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10' west 12' (6E25001-07) Soil									
Benzene	ND	25.0	ug/kg dry	25	EE62606	05/26/06	05/31/06	EPA 8260B	
Toluene	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	117	25.0	"	"	"	"	"	"	
Xylene (p/m)	25.1	25.0	"	"	"	"	"	"	
Xylene (o)	33.0	25.0	"	"	"	"	"	"	
Naphthalene	91.4	25.0	"	"	"	"	"	"	
Surrogate Dibromofluoromethane		99.8 %	70-139	"	"	"	"	"	
Surrogate 1,2-Dichloroethane-d4		80.4 %	52-149	"	"	"	"	"	
Surrogate Toluene-d8		86.2 %	76-125	"	"	"	"	"	
Surrogate 4-Bromofluorobenzene		102 %	66-145	"	"	"	"	"	

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88210

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Harris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 13:00

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
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Batch EE62507 - Solvent Extraction (GC)

Blank (EE62507-BLK1) Prepared: 05/25/06 Analyzed: 05/26/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate 1-Chlorooctane	43.6		mg/kg	50.0		87.2	70-130			
Surrogate 1-Chlorooctadecane	45.3		"	50.0		90.6	70-130			

LCS (EE62507-BS1) Prepared: 05/25/06 Analyzed: 05/26/06

Carbon Ranges C6-C12	546	10.0	mg/kg wet	500		109	75-125			
Carbon Ranges C12-C28	561	10.0	"	500		112	75-125			
Total Hydrocarbon nC6-nC35	1110	10.0	"	1000		111	75-125			
Surrogate 1-Chlorooctane	57.6		mg/kg	50.0		115	70-130			
Surrogate 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130			

Calibration Check (EE62507-CCV1) Prepared: 05/25/06 Analyzed: 05/30/06

Carbon Ranges C6-C12	268		mg/kg	250		107	80-120			
Carbon Ranges C12-C28	286		"	250		114	80-120			
Total Hydrocarbon nC6-nC35	554		"	500		111	80-120			
Surrogate 1-Chlorooctane	64.1		"	50.0		129	70-130			
Surrogate 1-Chlorooctadecane	62.4		"	50.0		125	70-130			

Matrix Spike (EE62507-MS1) Source: 6E24006-01 Prepared: 05/25/06 Analyzed: 05/26/06

Carbon Ranges C6-C12	573	10.0	mg/kg dry	520	ND	110	75-125			
Carbon Ranges C12-C28	576	10.0	"	520	ND	111	75-125			
Total Hydrocarbon nC6-nC35	1150	10.0	"	1040	ND	111	75-125			
Surrogate 1-Chlorooctane	55.5		mg/kg	50.0		111	70-130			
Surrogate 1-Chlorooctadecane	50.2		"	50.0		100	70-130			

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EE62507 - Solvent Extraction (GC)

Matrix Spike Dup (EE62507-MSD1)

Source: 6E24006-01

Prepared: 05/25/06

Analyzed: 05/31/06

Carbon Ranges C6-C12	575	10.0	mg/kg dry	520	ND	111	75-125	0.348	20
Carbon Ranges C12-C28	579	10.0	"	520	ND	111	75-125	0.519	20
Total Hydrocarbon nC6-nC35	1150	10.0	"	1040	ND	111	75-125	0.00	20
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	70-130		
Surrogate: 1-Chlorooctadecane	49.8		"	50.0		99.6	70-130		

Batch EF60219 - Solvent Extraction (GC)

Blank (EF60219-BLK1)

Prepared: 06/02/06

Analyzed: 06/05/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet						
Carbon Ranges C12-C28	ND	10.0	"						
Carbon Ranges C28-C35	ND	10.0	"						
Total Hydrocarbon nC6-nC35	ND	10.0	"						
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.8	70-130		
Surrogate: 1-Chlorooctadecane	16.5		"	50.0		93.0	70-130		

LCS (EF60219-BL1)

Prepared: 06/02/06

Analyzed: 06/05/06

Carbon Ranges C6-C12	567	10.0	mg/kg wet	500		111	75-125		
Carbon Ranges C12-C28	554	10.0	"	500		111	75-125		
Total Hydrocarbon nC6-nC35	1120	10.0	"	1000		112	75-125		
Surrogate: 1-Chlorooctane	58.0		mg/kg	50.0		117	70-130		
Surrogate: 1-Chlorooctadecane	52.7		"	50.0		105	70-130		

Calibration Check (EF60219-CCV1)

Prepared: 06/02/06

Analyzed: 06/05/06

Carbon Ranges C6-C12	290		mg/kg	250		116	80-120		
Carbon Ranges C12-C28	294		"	250		118	80-120		
Total Hydrocarbon nC6-nC35	584		"	500		117	80-120		
Surrogate: 1-Chlorooctane	57.9		"	50.0		116	70-130		
Surrogate: 1-Chlorooctadecane	58.2		"	50.0		116	70-130		

Environmental Lab of Texas

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Rice Operating Co.
122 W. Taylor
Hobbs NM. 88240

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF60219 - Solvent Extraction (GC)

Matrix Spike (EF60219-MS1)	Source: 6F02008-01		Prepared: 06/02/06		Analyzed: 06/05/06					
Carbon Ranges C6-C12	734	10.0	mg/kg dry	696	ND	105	75-125			
Carbon Ranges C12-C28	728	10.0	"	696	42.5	98.5	75-125			
Total Hydrocarbon nC6-nC35	1460	10.0	"	1390	42.5	102	75-125			
Surrogate: 1-Chlorooctane	53.6		mg/kg	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	47.3		"	50.0		94.6	70-130			

Matrix Spike Dup (EF60219-MSD1)	Source: 6F02008-01		Prepared: 06/02/06		Analyzed: 06/05/06					
Carbon Ranges C6-C12	724	10.0	mg/kg dry	696	ND	104	75-125	1.37	20	
Carbon Ranges C12-C28	734	10.0	"	696	42.5	99.4	75-125	0.821	20	
Total Hydrocarbon nC6-nC35	1460	10.0	"	1390	42.5	102	75-125	0.00	20	
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	46.4		"	50.0		92.8	70-130			

Rice Operating Co.
122 W. Tynlon
Hobbs NM, 88240

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 13:00

Fractionation of Aliphatics by TNRCC Method 1006 - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Unit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EF60608 - Solvent Extraction (GC)

Blank (EF60608-BLK1)

Prepared: 06/02/06 Analyzed: 06/06/06

C6-C8	ND	10.0	mg/kg wet						
>C8-C10	ND	10.0	"						
>C10-C12	ND	10.0	"						
>C12-C16	ND	10.0	"						
>C16-C21	ND	10.0	"						
>C21-C35	ND	10.0	"						
Total Hydrocarbon nC6-nC35	ND	10.0	"						

LCS (EF60608-RS1)

Prepared: 06/02/06 Analyzed: 06/06/06

Total Hydrocarbon nC6-nC35	1730	10.0	mg/kg wet	2000		86.5	60-140		
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Calibration Check (EF60608-CCV1)

Prepared & Analyzed: 06/06/06

Total Hydrocarbon nC6-nC35	568		mg/kg	500		114	80-120		
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Duplicate (EF60608-DUP1)

Source: 6E25001-01

Prepared & Analyzed: 06/06/06

C6-C8	48.7	10.0	mg/kg dry	50.8		4.22	20		
>C8-C10	415	10.0	"	421		1.44	20		
>C10-C12	891	10.0	"	892		0.112	20		
>C12-C16	2500	10.0	"	2460		1.61	20		
>C16-C21	2340	10.0	"	2300		1.72	20		
>C21-C35	1730	10.0	"	1690		2.34	20		
Total Hydrocarbon nC6-nC35	7920	10.0	"	7810		1.40	20		

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

Project: F-33 Vent (U80080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Fractionation of Aromatics by TNRCC Method 1006 - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC 1 limit	RPD RPD	RPD 1 limit	Notes
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Batch EF60608 - Solvent Extraction (GC)

Blank (EF60608-BLK1)

Prepared: 06/02/06 Analyzed: 06/06/06

C7-C8	ND	10.0	mg/kg wet
>C8-C10	ND	10.0	"
>C10-C12	ND	10.0	"
>C12-C16	ND	10.0	"
>C16-C21	ND	10.0	"
>C21-C35	ND	10.0	"
Total Hydrocarbon nC6-nC35	ND	10.0	"

LCS (EF60608-BL1)

Prepared: 06/02/06 Analyzed: 06/06/06

Total Hydrocarbon nC6-nC35	1730	10.0	mg/kg wet	2000	86.5	60-140
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Calibration Check (EF60608-CCV1)

Prepared & Analyzed: 06/06/06

Total Hydrocarbon nC6-nC35	568		mg/kg	500	114	80-120
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Duplicate (EF60608-DUP1)

Source: 6E25001-01

Prepared & Analyzed: 06/06/06

C7-C8	6.25	10.0	mg/kg dry	6.44	2.99	20
>C8-C10	73.4	10.0	"	69.5	5.46	20
>C10-C12	283	10.0	"	290	2.44	20
>C12-C16	1369	10.0	"	1340	1.48	20
>C16-C21	1790	10.0	"	1760	1.69	20
>C21-C35	1680	10.0	"	1670	0.597	20
Total Hydrocarbon nC6-nC35	3200	10.0	"	5130	1.36	20

Rice Operating Co.
122 W. Taylor
Hobbs NM 88240

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EE62607 - General Preparation (Prep)

Blank (EE62607-BLK1)				Prepared: 05/25/06 Analyzed: 05/26/06			
% Solids	100		%				
Duplicate (EE62607-DUP1)				Prepared: 05/25/06 Analyzed: 05/26/06			
Source: 6E24016-01							
% Solids	96.6		%	96.8		0.207	20
Duplicate (EE62607-DUP2)				Prepared: 05/25/06 Analyzed: 05/26/06			
Source: 6E24016-21							
% Solids	99.6		%	99.9		0.301	20
Duplicate (EE62607-DUP3)				Prepared: 05/25/06 Analyzed: 05/26/06			
Source: 6E24016-41							
% Solids	99.7		%	99.5		0.201	20
Duplicate (EE62607-DUP4)				Prepared: 05/25/06 Analyzed: 05/26/06			
Source: 6E25007-02							
% Solids	90.8		%	89.7		1.22	20

Batch EE63005 - Water Extraction

Blank (EE63005-BLK1)				Prepared & Analyzed: 05/29/06			
Chloride	ND	0.500	mg/kg				
ICS (EE63005-BST)				Prepared & Analyzed: 05/29/06			
Chloride	10.2	0.500	mg/kg	10.0	102	80-120	
Calibration Check (EE63005-CCV1)				Prepared & Analyzed: 05/29/06			
Chloride	10.3		mg/L	10.0	103	80-120	
Duplicate (EE63005-DUP1)				Prepared & Analyzed: 05/29/06			
		Source: 6E24016-41					
Chloride	12.2	5.00	mg/kg	12.8		4.80	20

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.

Page 17 of 21

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE63005 - Water Extraction										
Duplicate (EE63005-DUP2)		Source: 6E25008-02		Prepared & Analyzed: 05/29/06						
Chloride	181	20.0	mg/kg		179			1.11	20	
Matrix Spike (EE63005-MS1)		Source: 6E24016-41		Prepared & Analyzed: 05/29/06						
Chloride	102	5.00	mg/kg	100	12.8	89.2	80-120			
Matrix Spike (EE63005-MS2)		Source: 6E25008-02		Prepared & Analyzed: 05/29/06						
Chloride	371	20.0	mg/kg	400	179	98.0	80-120			

Rice Operating Co.
122 W. Taylor
Hobbs NM 88240

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE62606 - EPA 5030C (GCMS)

Blank (EE62606-BLK1)

Prepared & Analyzed: 05/26/06

Benzene	ND	25.0	ug/kg wet							
Toluene	ND	25.0	"							
Ethylbenzene	ND	25.0	"							
Xylene (p+m)	ND	25.0	"							
Xylene (o)	ND	25.0	"							
Naphthalene	ND	25.0	"							
Surrogate Dibromofluoromethane	53.0		ug/l	50.0		106	70-139			
Surrogate 1,2-Dichloroethane-d4	43.7		"	50.0		87.4	52-149			
Surrogate Toluene-d8	41.3		"	50.0		82.6	76-125			
Surrogate 4-Bromofluorobenzene	37.5		"	50.0		75.0	66-145			

LCS (EE62606-BS1)

Prepared & Analyzed: 05/26/06

Benzene	568	25.0	ug/kg wet	625		90.9	70-130			
Toluene	589	25.0	"	625		94.2	70-130			
Ethylbenzene	627	25.0	"	625		100	70-130			
Xylene (p+m)	1200	25.0	"	1250		96.0	70-130			
Xylene (o)	640	25.0	"	625		102	70-130			
Naphthalene	534	25.0	"	625		85.4	70-130			
Surrogate Dibromofluoromethane	47.5		ug/l	50.0		95.0	70-139			
Surrogate 1,2-Dichloroethane-d4	41.7		"	50.0		83.4	52-149			
Surrogate Toluene-d8	42.8		"	50.0		85.6	76-125			
Surrogate 4-Bromofluorobenzene	40.7		"	50.0		81.4	66-145			

Calibration Check (EE62606-CCV1)

Prepared & Analyzed: 05/26/06

Toluene	42.9		ug/l	50.0		85.8	70-130			
Ethylbenzene	40.5		"	50.0		81.0	70-130			
Surrogate Dibromofluoromethane	50.6		"	50.0		101	70-139			
Surrogate 1,2-Dichloroethane-d4	43.9		"	50.0		87.8	52-149			
Surrogate Toluene-d8	45.7		"	50.0		91.4	76-125			
Surrogate 4-Bromofluorobenzene	43.9		"	50.0		87.8	66-145			

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
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Batch EE62606 - EPA 5030C (GCMS)

Matrix Spike (EE62606-MS1)

Source: 6E25028-02 Prepared & Analyzed: 05/26/06

Benzene	642	25.0	ug/kg dry	666	ND	96.4	70-130			
Toluene	670	25.0	"	666	ND	101	70-130			
Ethylbenzene	699	25.0	"	666	ND	103	70-130			
Xylene (p/m)	1330	25.0	"	1330	ND	100	70-130			
Xylene (o)	713	25.0	"	666	ND	107	70-130			
Naphthalene	547	25.0	"	666	32.7	77.2	70-130			
Surrogate: Dibromofluoromethane	46.8		ug/l	50.0		93.6	70-139			
Surrogate: 1,2-Dichloroethane-d4	41.6		"	50.0		83.2	32-149			
Surrogate: Toluene-d8	41.1		"	50.0		82.2	70-123			
Surrogate: 4-Bromofluorobenzene	39.1		"	50.0		78.2	66-143			

Matrix Spike Dup (EE62606-MSD1)

Source: 6E25028-02 Prepared & Analyzed: 05/26/06

Benzene	641	25.0	ug/kg dry	666	ND	94.7	70-130	1.78	20	
Toluene	655	25.0	"	666	ND	98.3	70-130	2.71	20	
Ethylbenzene	613	25.0	"	666	ND	92.0	70-130	13.2	20	
Xylene (p/m)	1229	25.0	"	1330	ND	91.7	70-130	8.66	20	
Xylene (o)	654	25.0	"	666	ND	98.2	70-130	8.58	20	
Naphthalene	628	25.0	"	666	32.7	89.4	70-130	14.6	20	
Surrogate: Dibromofluoromethane	49.8		ug/l	50.0		99.6	70-139			
Surrogate: 1,2-Dichloroethane-d4	48.8		"	50.0		97.6	32-149			
Surrogate: Toluene-d8	42.7		"	50.0		85.4	70-123			
Surrogate: 4-Bromofluorobenzene	39.8		"	50.0		79.6	66-143			

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

Project: F-33 Vent (UN0080)
Project Number: Hobbs Abandonment
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/06/06 15:00

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's

J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag).

DEI 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

Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

6-07-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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.

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Krislin Pope

Project Name: F-33 Vent (UN0080)

Company Name: Rice Operating Company

Project #: Hobbs Abandonment

Company Address: 122 West Taylor

Project Location: T18S, R38E, Sec 33, Unit Letter F

City/State/Zip: Hobbs, New Mexico 88240

ROC Billing Code

Telephone No: 505-393-9174

Fax No: 505-397-1471

Email results to: gil@rthicksconsult.com, mfranks@riceswd.com, kpope@riceswd.com, & andrew@rthicksconsult.com

Sampler Signature: *[Signature]*

Analyze For:

LAB # (lab use only)	GIS CODE	FIELD CODE	Sample Depth (soils only)		Date Sampled	Time Sampled	No. of Containers	PRESERVATIVE										ANALYSIS															
			Begin (ft)	End (ft)				HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Seepage	End	Other (Specify)	TPH 4181 B015M 1005 1006	Cations (Ca, Mg, Na X)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi-volatiles	BTEX 0200	PCB	NORM	Total Dissolved Solids	TPH: 8015M	TPH: 1006	Chloride	RUSH TAT (Pre-Schedule)	Standard TAT
001	414	Source (12')	12	12	4/22/00	10:30	1	X																				X				X	
002	414	Source (16')	16	16	"	11:10	1	X																				X				X	
003	415	10' east (4')	4	4	"	10:55	1	X																				X				X	
004	415	10' east (12')	12	12	"	2:04	1	X																				X				X	
005	416	10' north (8')	8	8	"	2:10	1	X																				X				X	
006	416	10' north (12')	12	12	"	2:25	1	X																				X				X	
007	417	10' west (12')	12	12	"	2:50	1	X																				X				X	

Special Instructor

Sample Containers Intact?
Temperature Upon Receipt:
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	5/24/00	7:51	<i>[Signature]</i>	5/24	17:30
Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	5/25	8:00	<i>[Signature]</i>	5/25/00	8:00

402 glass
20

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

Client Rice Op.
Date/Time 5/25/06 8:00
Order #: UE25001
Initials CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	<u>2.0</u> <u>C</u>
Shipping container/cooler in good condition?	<u>Yes</u>	No	
Custody Seals intact on shipping container/cooler?	<u>Yes</u>	No	Not present
Custody Seals intact on sample bottles?	<u>Yes</u>	No	Not present
Chain of custody present?	<u>Yes</u>	No	
Sample Instructions complete on Chain of Custody?	<u>Yes</u>	No	
Chain of Custody signed when relinquished and received?	<u>Yes</u>	No	
Chain of custody agrees with sample label(s)	<u>Yes</u>	No	
Container labels legible and intact?	<u>Yes</u>	No	
Sample Matrix and properties same as on chain of custody?	<u>Yes</u>	No	
Samples in proper container/bottle?	<u>Yes</u>	No	
Samples properly preserved?	<u>Yes</u>	No	
Sample bottles intact?	<u>Yes</u>	No	
Preservations documented on Chain of Custody?	<u>Yes</u>	No	
Containers documented on Chain of Custody?	<u>Yes</u>	No	
Sufficient sample amount for indicated test?	<u>Yes</u>	No	
All samples received within sufficient hold time?	<u>Yes</u>	No	
VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

Appendix B

Waste Manifest and Backfill Analysis

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 59811

Lease Operator/Shipper/Company: _____		
Lease Name: _____		
Transporter Company: _____	Time _____	AM/PM _____
Date: _____	Vehicle No. _____	Driver No. _____
Charge To: _____		

TYPE OF MATERIAL

- | | | |
|--|--|--|
| ☐ Produced Water | ☐ Drilling Fluids | ☐ Completion Fluids |
| ☐ Tank Bottoms | ☐ Contaminated Soil | ☐ C-117 No.: |
| ☐ Other Materials | ☐ BS&W Content: | |

Description: _____

- ☐ JETOUT
☐ CALLOUT

VOLUME OF MATERIAL

BBLS

YARDS

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

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was rendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: _____

FACILITY REPRESENTATIVE: _____

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 59578

Lease Operator/Shipper/Company:

Lease Name:

Transporter Company:

Time AM/PM

Date:

Vehicle No.

Driver No.

Charge To:

TYPE OF MATERIAL

☐ Produced Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated Soil

☐ C-117 No.:

☐ Other Materials

☐ BS&W Content:

Description:

☐ JETOUT

☐ CALLOUT

VOLUME OF MATERIAL

BBLS

YARDS

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, JOE. 80-690, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION ALLOWED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident

DRIVER:

FACILITY REPRESENTATIVE:



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

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

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

Receiving Date: 08/30/07
Reporting Date: 08/30/07
Project Owner: NOT GIVEN
Project Name: HOBBS F-33 VENT
Project Location: HOBBS F-33 VENT

Analysis Date: 08/30/07
Sampling Date: 08/29/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/Kg)
H13198-1	2:1 MIXED BACKFILL COMPOSITE	128
Quality Control		480
True Value QC		500
% Recovery		96
Relative Percent Difference		2.1

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

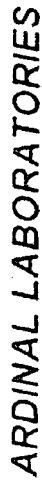
Note: Analysis performed on a 1:4 w:v aqueous extract.

Lore S. Moreno
Chemist

08-31-07
Date

H13198 RICE

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



101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

BILL TO		ANALYSIS REQUEST	
Company Name: <u>Rice Operating</u>		P.O. #:	
Project Manager: <u>Krista Pope</u>		Company:	
Address: <u>122 W. Taylor</u>		Attn:	
City: <u>Hobbs</u>		Address:	
State: <u>NM</u> Zip: <u>88240</u>		City:	
Phone #: <u>505-393-9115</u> Fax #: <u>505-397-1471</u>		State:	
Project #: _____		Phone #:	
Project Owner: _____		Fax #:	
Project Name: <u>Hobbs F-33 vent</u>			
Project Location: <u>Hobbs F-33 vent</u>			
Sampler Name: <u>Lara Weinheimer</u>			
FOR LAB USE ONLY			
Lab I.D.		Sample I.D.	
<u>413142-1</u>		# CONTAINERS	
		(G)RAB OR (C)OMP.	
<u>2:1 mixed backfill composite</u>		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER:	
ACID/BASE:		PRESERV.	
X		OTHER:	
DATE		TIME	
8-29-07		11:19 a.m.	
Chlorides		X	

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Relinquished By: [Signature] Date: 8-30-07

Relinquished By: [Signature] Time: 1:57 p.m.

Received By: [Signature] Date: _____

Received By: _____ Time: _____

Delivered By: (Circle One) _____

Sampler - UPS - Bus - Other: _____

Phone Result: ☐ Yes ☒ No Add'l Phone #:

Fax Result: ☒ Yes ☐ No Add'l Fax #:

REMARKS: Email results

Kpope @ rice-swd.com

lweinheimer @ rice-swd.com

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

PID METER READING AND CALIBRATION

X

SERIAL NO: 104412
SERIAL NO: 110-013744
SERIAL NO: 110-12383
SERIAL NO: 110-012920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE
EXPIRATION DATE: 2/17/2009
METER READING ACCURACY: 102 ppm

SIGNATURE: Lara Weinheimer DATE: 8/29/2007

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Monday, June 30, 2008 6:32 PM
To: 'Hack Conder'
Cc: 'Marvin Burrows'; Johnson, Larry, EMNRD; Price, Wayne, EMNRD; 'Katie Lee'
Subject: Hobbs SWD F-33 Vent (#1R428-58) Closure Report - Additional Information Required

Dear Mr. Conder:

The New Mexico Oil Conservation Division (NMOCD) has reviewed the submitted Closure Report, dated January 17, 2008, Hobbs SWD F-33 vent submitted by R. T. Hicks on 1/22/2008 (#1R428-58). The NMOCD cannot approve the Closure Report at this time. The NMOCD is requiring additional information regarding this site. Since the NMOCD did not have all site information available at the time of the verbal approval of the Corrective Action Plan, additional BTEXN analysis is required prior to approval of the Closure Report. Please provide the BTEXN analytical results at the former vent site at a depth where a PID reading is at 100 ppm or less. (An acceptable soil sample may be obtained using a low profile direct-push soil sampler.) In addition, please provide a plan to re-seed and fence the site.

Please provide a schedule to the NMOCD by Thursday, July 24, 2008 for the collection of the soil samples and submittal of the analytical data. Also by 7/24/08, please submit the plan for reseeding and fencing the site.

If you have questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

P.S.: Please use the NMOCD case # on future correspondence regarding the site listed above.

6/30/2008