

1R - 428-51

REPORTS

DATE:

11-8-13

L. Peter Galusky, Jr. Ph.D., P.G.

Texerra LLC

RECEIVED

NOV 12 2 24 PM

20055 Laredo Lane Monument, CO 80132

Tel: 719-339-6791 E-mail: lpg@texerra.com

November 8th, 2013

Mr. Edward Hansen

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

Re: **CAP Report and Termination Request**
Rice Operating Company -- Hobbs O-29 EOL
UL O, Sec 29, T18S, R38E
OCD Case No. 1R428-51

Sent via Certified Mail w/ Return Receipt No. 7011 0110 0002 5197 1457

Mr. Hansen:

This letter summarizes work completed by Rice Operating Company (ROC) at their Hobbs O-29 EOL former junction box site, as outlined in the Corrective Action Plan (CAP) and CAP Addendum of August 8th and 27th, respectively, and approved by NMOCD on September 3rd 2013.

The subject site is located in west Hobbs, New Mexico. The apparent direction of groundwater flow is toward the southeast. The estimated depth to groundwater (the water table) is approximately 67 ft bgs.

In May 2010, soils were sampled and analyzed for residual chlorides and petroleum hydrocarbons per the Investigation and Characterization Plan (ICP) approved by the NMOCD on January 20th, 2010. The results of this work were reported in the CAP noted above. In brief, petroleum hydrocarbons were significant only near the former junction box (in SB-1) near the surface and to a depth of 40 ft bgs (as evidenced by a field PID reading greater than 100). Total BTEX measured 9.24 mg/kg at 5 ft bgs and 2.80 mg/kg at 40 ft bgs. Petroleum hydrocarbons were essentially insignificant in all of the other soil borings. Residual soil chlorides decreased with depth to 352 mg/kg at 70 ft bgs in SB-1, 96 mg/kg at 65 ft in SB-2, 416 mg/kg at 40 ft in SB-3, 768 mg/kg at 40 ft in SB-4, and 464 mg/kg at 40 ft in SB-5.

Although these levels of residual soil chlorides and hydrocarbons were not high, we nevertheless proposed to install an impermeable, synthetic subsurface liner to protect groundwater from potential future impacts per the CAP and CAP addendum. According to the CAP and Addendum, ROC would install four separate liners due to the presence of a buried injection line running north-south and a buried pipeline running east-west. The Multimed simulation model was used to determine if residual chloride or BTEX pose a threat to groundwater quality. Multimed proved that residual constituents would not pose a threat to groundwater quality with the installation of a 20-mil liner. This work, summarized below, was completed in October of this year:

Rice Operating Company – Hobbs O-29 EOL

1. Once ROC began spotting lines, it was discovered that the buried pipeline running east to west through the site was abandoned. This allowed the installation of two liners, one on each side of the buried injection line. The east and west side of the site was excavated to a depth of 5 ft bgs.
2. ROC padded each excavation with 6 inches of blow sand, then installed and properly seated a 20-mil, reinforced poly liner in each of the excavations. The west liner measured approximately 13x53-ft and the east liner measured approximately 40x53-ft. The liners were then padded with approximately 1 foot of blow sand. Approximately 636 cu yds of soil material was hauled to and disposed at Sundance, a NMOCD approved oil field disposal facility.
3. The west excavation was backfilled with base coarse to ground surface. A composite sample of the base coarse was analyzed by a commercial laboratory resulting in a chloride concentration of 112 mg/kg. The sample was also field analyzed for hydrocarbon, resulting in a PID reading of 32 ppm. The east excavation was backfilled with blow sand to ground surface. A composite sample of the imported blow sand was analyzed by a commercial laboratory resulting in a chloride concentration of <16 mg/kg. The sample was also field analyzed for hydrocarbon, resulting in a PID reading of 38 ppm. Approximately 546 cu yds of clean material was imported to the site.
4. ROC restored the surface to natural grade and added amendments and seed with a blend of native vegetation mix.

As ROC has protected groundwater from potential future impacts from residual soil chlorides or hydrocarbons we respectfully request remediation termination or similar regulatory closure status for this project.

ROC is the service provider (agent) for the Hobbs 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 Parties, who provide all operating capital on a percentage ownership/usage basis.

Please do not hesitate to contact either Rice Operating Company or myself if you have any questions or need additional information.

Thank you for your consideration.

Sincerely,



L. Peter Galusky, Jr. Ph.D.
Principal

Copy: Rice Operating Company

Rice Operating Company – Hobbs O-29 EOL

APPENDIX

- ✓ Site Location Map
- ✓ Liner Installation Map with Soil Bore Sampling Summary
- ✓ Laboratory Analysis of Imported Soil Material
- ✓ PID (hydrocarbon screening) of Imported Soil Material
- ✓ Revegetation Form
- ✓ Photographs

Site Location



Hobbs O-29 EOL

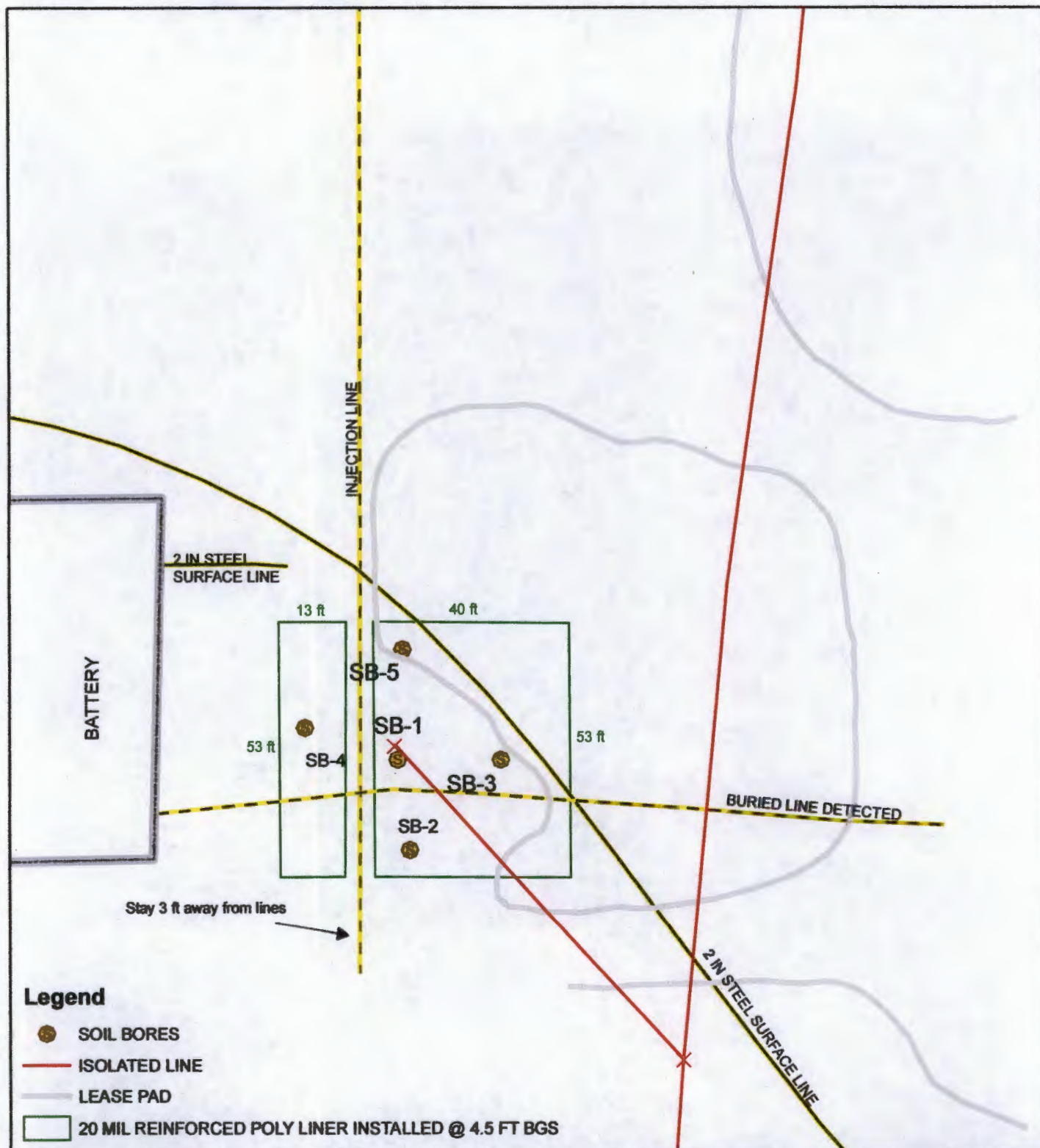
Legals: UL/O sec. 29
T18S R38E

Case #: 1R428-51



0 0.175 0.35
Miles

Drawing date: 10/23/12
Drafted by: L. Weinheimer



Legend

- SOIL BORES
- ISOLATED LINE
- LEASE PAD
- 20 MIL REINFORCED POLY LINER INSTALLED @ 4.5 FT BGS



Hobbs O-29 EOL

Legals: UL/O sec. 29
T18S R38E

Case #: 1R428-51



0 12.5 25 50
Feet

Drawing date: 11/8/13
Drafted by: T. Grieco



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 21, 2013

KYLE NORMAN

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: HOBBS O-29 EOL

Enclosed are the results of analyses for samples received by the laboratory on 10/17/13 8:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Rice Operating Company
KYLE NORMAN
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received: 10/17/2013
Reported: 10/21/2013
Project Name: HOBBS O-29 EOL
Project Number: NONE GIVEN
Project Location: T18S R35E

Sampling Date: 10/16/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: BLOW SAND (H302513-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/21/2013	ND	416	104	400	0.00	

Sample ID: BASE COARSE (H302513-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/21/2013	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

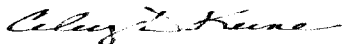
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2416

#54

RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471
PID METER CALIBRATION & FIELD REPORT FORM

CK.	
MODEL	X
NO.	

MODEL: PGM 7300	SERIAL NO: 590-000508
MODEL: PGM 7300	SERIAL NO: 590-001413
MODEL: PGM 7320	SERIAL NO: 592-903318
MODEL: PGM _____	SERIAL NO: _____

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO :Hal-248-100-1	EXPIRATION DATE: 7-1-2015
METER READING ACCURACY:	

ACCURACY : +/- 2%

COMPANY
ROC

SITE	UNIT	SECTION	TOWN SHIP	RANGE
Hobbs O-29 EOL	UL/0	29	18S	38E

SAMPLE ID	PID	SAMPLE ID	PID
Imported Blow Sand	38		
Imported Base Coarse	32		

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE:

Amber Groves

DATE: 10/16/2013



PO Box 2498
Hobbs, NM 88241
Phone: (575) 393-2967
Fax: (575) 393-0293

VEGETATION FORM

1. General Information

Site name: Hobbs O-29 EOL						
U/I. O	Section 29	Township T18S	Range R38E	County Lea	Latitude 32.713623	Longitude -103.1662385
Contact Name: Hack Conder						
Email: hconder@riceswd.com						
Site size: 75X100 ft square feet: 7,500 sq ft						

2. Soils

**Do not rip caliche subsoils; caliche rocks brought to the surface by ripping shall be removed.*

Salvaged from site	<input type="checkbox"/>	Bioremediated	<input type="checkbox"/>	Imported	<input checked="" type="checkbox"/>	Blended	<input type="checkbox"/>	Depth (in)	<input type="text"/>
Texture:	Sand		Describe soil & subsoil:		Blow Sand				
Soil prep methods:	<input type="checkbox"/>	Rip	<input type="checkbox"/>	Depth (in)	3 in	<input checked="" type="checkbox"/>	Disc	Depth (in)	<input type="text"/>
Date completed	10/23/2013								

3. Bioremediation

Fertilizer	<input checked="" type="checkbox"/>	Hay	<input type="checkbox"/>	Other	<input type="text"/>
Type:				Describe	16 bags Potting Soil, 16 bags Restore
Lbs/acre					2 bags Manure

4. Seeding

**Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.*

Custom Seed Mix	<input checked="" type="checkbox"/>	Prescribed Mix	<input type="checkbox"/>	Seed Mix Name:	10 lbs each Side Oats, Blue Grama, Winter	Date:	10/23/2013
Broadcast	Mechanical Seeder			Method:	Used Dew Drop Grain drill to seed site		
Soil conditions during seed:	<input type="checkbox"/>	Dry	<input checked="" type="checkbox"/>	Damp	<input type="checkbox"/>	Wet	<input type="text"/>
Observations:	The Seed was tilled into the soil.						

5. Certification

I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

Name:	Amber Groves	Title:	Environmental Technician	Date:	10/23/2013
Signature:					

Hobbs O-29 EOL (1R428-51)
Unit Letter O, Section 29, T18S, R38E



Site prior to excavation, facing west 6/25/2013



Excavating the west side of the site, facing southwest 10/15/2013



Padding the west excavation with blow sand, facing southwest 10/16/2013



20-mil, reinforced liner installed, facing southeast 10/16/2013



Padding the liner with blow sand, facing southwest 10/16/2013



Backfilling with base coarse, facing northwest 10/16/2013



Exporting excavated soil,
facing east

10/21/2013



Importing blow sand,
facing south

10/21/2013



Excavating the east side of the site, facing
southeast

10/21/2013



Padding the excavation with blow sand,
facing southeast

10/22/2013



Padding the 20-mil, reinforced liner with blow
sand, facing north

10/22/2013



Backfilling the excavation,
facing northwest

10/22/2013



Discing the backfilled site,
facing southwest

10/23/2013



Adding amendments to the soil,
facing southwest

10/23/2013



Seeding the site, facing southwest

10/23/2013



Site complete, facing west

10/23/2013