

1R - 427-152

REPORTS

DATE:

7-19-12

10-15-13

RICE *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 8906

RECEIVED

July 19, 2012

JUL 24 2013

Mr. Edward Hansen

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau

1220 S. St. Francis Drive

Santa Fe, New Mexico 87505

Oil Conservation Division

1220 S. St. Francis Drive

Santa Fe, NM 87505

RE: Termination Request

EME Citation Devonian Vent G-20 (1R427-152): UL/G, Sec. 20, T21S, R36E

RICE Operating Company – Eunice Monument Eumont (EME) SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (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.

Background and Previous Work

In 2004, ROC initiated work on the former EME Citation Devonian Vent G-20 junction box. The site is located in UL G, Sec. 20, T21S, R36E and just outside the eastern fence line of an active production facility. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 174 +/- feet. The site was delineated using a backhoe to form a 10x4x12-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. Each sample was field titrated for chlorides and screened for TPH, resulting in low chloride concentrations. The 12 ft sample was sent to a commercial laboratory for analysis, resulting in a chloride concentration of 432 mg/kg, a gasoline range organics (GRO) concentration of 28.1 mg/kg, a diesel range organics (DRO) concentration of 2,570 mg/kg and BTEX concentrations below detectable limits throughout. The TPH concentration falls below the NMOCD guideline standard of 5,000 mg/kg. The excavation was backfilled with the excavated soil to ground surface and contoured to the surrounding area. On 9/24/2004, the site was seeded with a blend of native vegetation. Vegetation has rebounded at this site; vegetation will act as an evapo-transpiration barrier that will also inhibit the downward migration of chlorides and hydrocarbons. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone. A new watertight junction box was built 167 ft north of this site.

The junction box site location map, area map, final report, photodocumentation, laboratory analysis, chloride graph and current photodocumentation are attached.

Recommendations

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,
RICE Operating Company

A handwritten signature in black ink, appearing to read "H. Conder", with a long horizontal flourish extending to the right.

Hack Conder
Environmental Manager

enclosures

RECEIVED OGD
2013 JUL 24 P 2:25



Site Maps

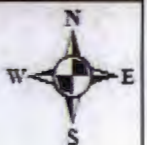
RICE *Operating Company* (ROC)
112 West Taylor Hobbs, NM 88240
Phone: (575) 393-9174 Fax: (575) 397-1471

Geographical Location Map



EME CITATION DEVONIAN Vent G-20

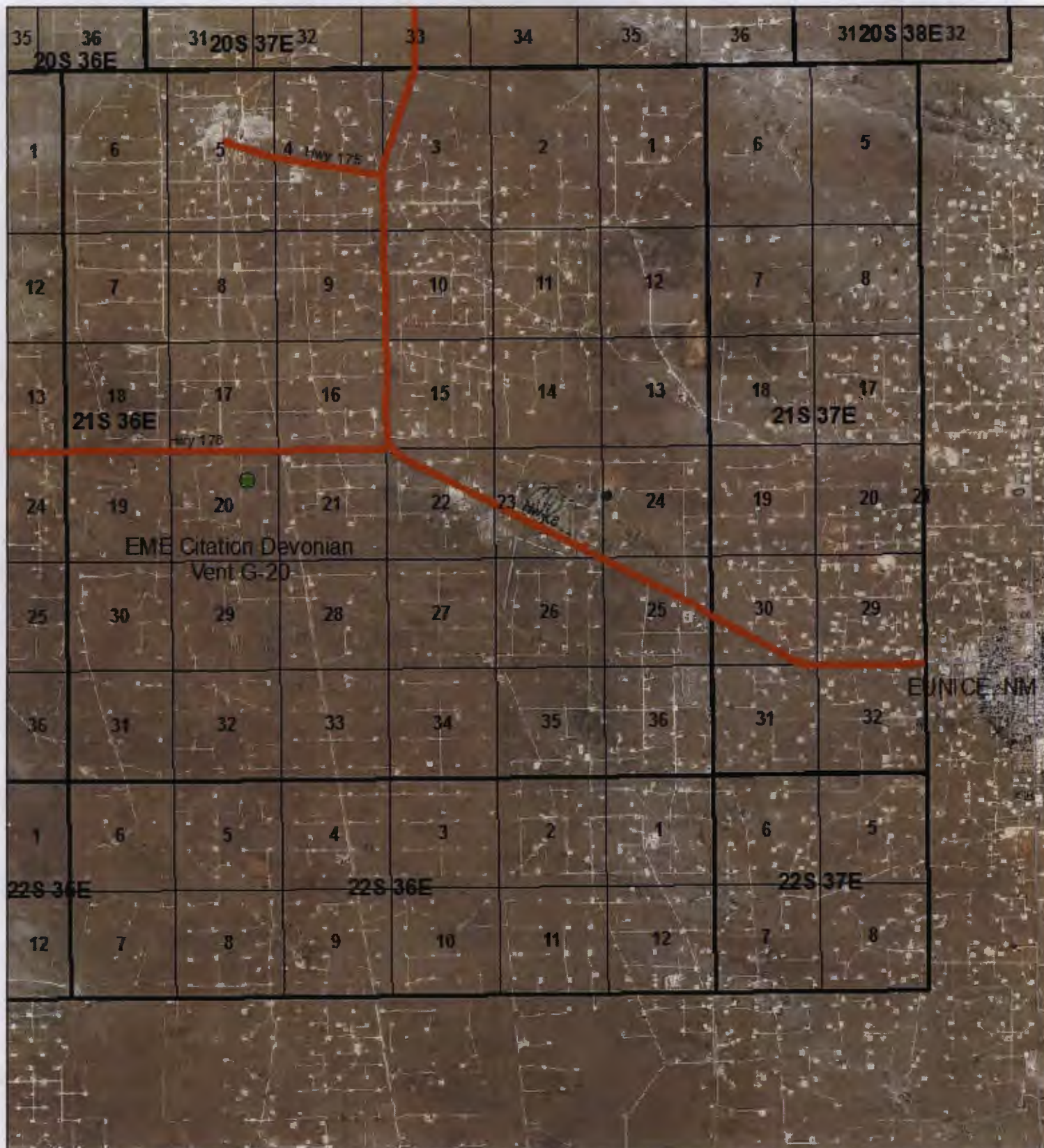
UL G SECTION 20
T-21-S R-36-E
LEA COUNTY, NM



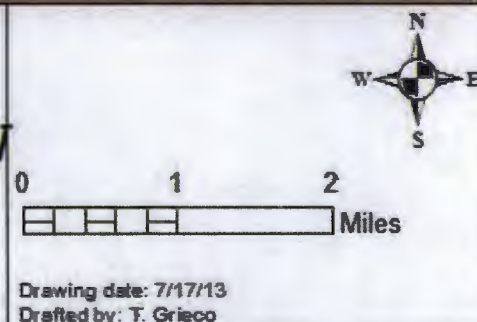
0 1,000 2,000
Feet

Drawing date: 7/17/13
Drafted by: T. Grieco

Site Location Map



EME
CITATION DEVONIAN
VENT G-20
 UL G SECTION 20
 T-21-S R-36-E
 LEA COUNTY, NM





Junction Box Report

RICE *Operating Company* (ROC)
112 West Taylor Hobbs, NM 88240
Phone: (575) 393-9174 Fax: (575) 397-1471

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	Citation Devonian Vent G-20	G	20	21S	36E	Lea	Length	Width	Depth
							moved 167 ft North		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Dasco Land Company OTHER _____

Depth to Groundwater 174 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 7/28/2004 Date Completed 8/12/2004 OCD Witness No

Soil Excavated 18 cubic yards Excavation Length 10 Width 4 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date 8/2/2004 Sample Depth 12 ft

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX, and chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
GRAB @ 12 ft	<0.005	<0.005	<0.005	<0.015	28.1	2570	432

CHLORIDE FIELD TESTS

General Description of Remedial Action: This vent was located just outside the eastern fence line of an active production facility. The box was removed and delineated using a backhoe to make a trench at the site of the old junction. Samples were collected every foot to 12 ft BGS and field-tested for chloride and screened using a PID. Mild hydrocarbon odors were detected in all samples. Chloride concentrations were relatively low and given the depth to groundwater, no further excavation was warranted. The 12 ft sample was analyzed at a laboratory and NMOCD TPH and BTEX guidelines were met. The hole was backfilled with the excavated soil. The disturbed surface was seeded on 9/24/2004 with a blend of native vegetation and will be monitored for growth.

LOCATION	DEPTH (ft)	ppm
vertical	5	113
at junction	6	141
	7	175
	8	144
	9	256
	10	281
	11	337
	12	458

enclosures: chloride graph, photos, lab results

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

SITE SUPERVISOR Joe Gatts SIGNATURE [Signature] COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE [Signature]

DATE 9/27/2004 TITLE Project Scientist

EME Citation Devonian vent G-20

unit 'G', Sec. 20, T21S, R36E



undisturbed junction box

7/23/2003



old junction site; lumber removed

7/23/2003



new plumbing in new box location 167 ft north

6/23/2004



completed new watertight junction box 167 ft north

7/9/2004



backfilling delineation excavation at old box site 8/12/2004



excavation backfilled and graded 8/12/2004



seeding disturbed surface 9/24/2004

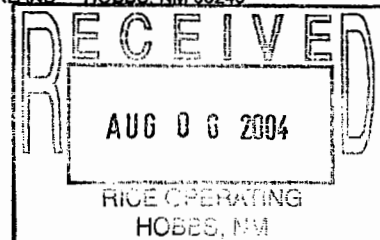


ARDINAL LABORATORIES

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

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

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



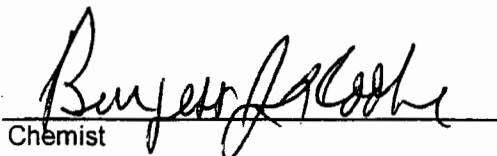
Receiving Date: 08/02/04
Reporting Date: 08/04/04
Project Number: NOT GIVEN
Project Name: EME
Project Location: CITATION DEVONIAN-EME

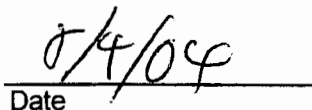
Sampling Date: 08/02/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
		08/03/04	08/03/04	08/02/04
H8967-1	SOURCE @ 12' BGS	28.1	2570	432
Quality Control		759	801	1000
True Value QC		800	800	1000
% Recovery		94.9	100	100
Relative Percent Difference		5.0	1.8	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

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


Chemist


Date

H8967A.XLS

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



ARDINAL LABORATORIES

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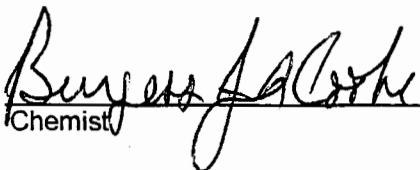
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: ROY RASCON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 08/02/04
Reporting Date: 08/03/04
Project Number: NOT GIVEN
Project Name: EME
Project Location: CITATION DEVONIAN-EME

Sampling Date: 08/02/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		08/02/04	08/02/04	08/02/04	08/02/04
H8967-1	SOURCE @ 12' BGS	<0.005	<0.005	<0.005	<0.015
Quality Control		0.086	0.101	0.091	0.273
True Value QC		0.100	0.100	0.100	0.300
% Recovery		86.4	101	91.1	91.0
Relative Percent Difference		7.3	3.0	0.5	2.7

METHOD: EPA SW-846 8260


Chemist

8/3/04
Date




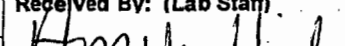
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of 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.

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

Sampler Relinquished:		Date:		Received By:		Phone Result <input type="checkbox"/> Yes <input type="checkbox"/> No Additional Fax #:	
		Time:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:		Date:		Received By: (Lab Staff)		REMARKS:	
		8/20/04					
		Time: 4:10					
Delivered By: (Circle One)		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)			
		<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No					

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

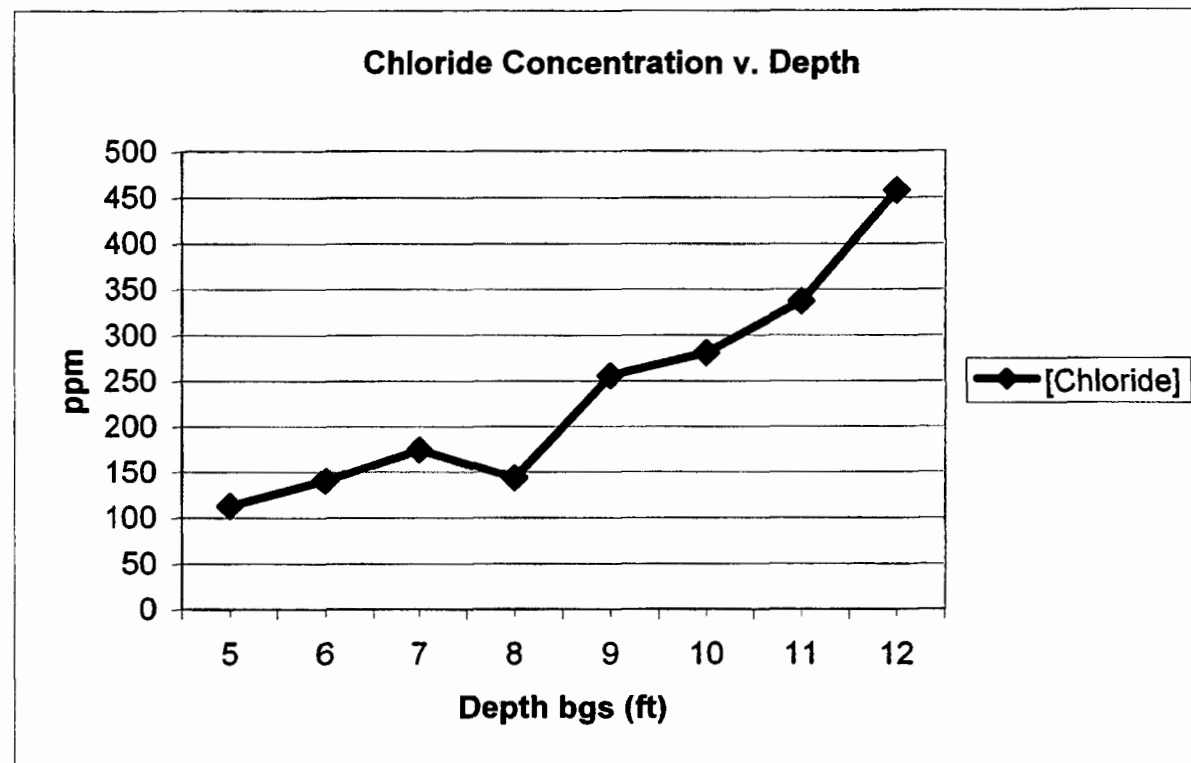
EME Citation Devonian vent G-20

unit 'G', Sec. 20, T21S, R36E

Vertical Delineation at Source

Depth bgs (ft)	[Cl ⁻] ppm
5	113
6	141
7	175
8	144
9	256
10	281
11	337
12	458

Groundwater = 174 ft

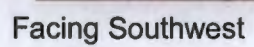


Current Photodocumentation

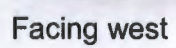
RICE *Operating Company* (ROC)
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Phone: (575) 393-9174 Fax: (575) 397-1471

UL/G, Section 20, T21S, R36E

UL/G, Section 20, T21S, R36E



5/10/2013



5/10/2013

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OCT 24 P 1:54

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 8975

October 15, 2013

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: Additional Information and Termination Request
EME Citation Devonian Vent G-20 (1R427-152): UL/G, Sec. 20, T21S, R36E
RICE Operating Company – Eunice Monument Eumont (EME) SWD System

Mr. Hansen:

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Background and Previous Work

In 2004, ROC initiated work on the former EME Citation Devonian Vent G-20 junction box. The site is located in UL G, Sec. 20, T21S, R36E and just outside the eastern fence line of an active production facility. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 174 +/- feet. The site was delineated using a backhoe to form a 10x4x12-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. Each sample was field titrated for chlorides and screened for TPH, resulting in low chloride concentrations. The 12 ft sample was sent to a commercial laboratory for analysis, resulting in a chloride concentration of 432 mg/kg, a gasoline range organics (GRO) concentration of 28.1 mg/kg, a diesel range organics (DRO) concentration of 2,570 mg/kg and BTEX concentrations below detectable limits throughout. The TPH concentration falls below the NMOCD guideline standard of 5,000 mg/kg. The excavation was backfilled with the excavated soil to ground surface and contoured to the surrounding area. On 9/24/2004, the site was seeded with a blend of native vegetation. A new watertight junction box was built 167 ft north of this site.

A Termination Request was submitted to NMOCD on July 19, 2013. NMOCD requested further delineation of the site on August 26, 2013.

Further investigation

To further investigate the depth of chloride presence, a soil bore was initiated on August 22, 2013 at 7.5 ft northwest of the former junction box site. The boring was advanced to a depth of 25 ft below ground surface (bgs) with soil samples collected every 5 ft. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations. The 15 ft, 20 ft and 25 ft samples were sent to a commercial laboratory for analysis. The 15 ft samples resulted in a chloride concentration below detectable limits, a GRO concentration of 131 mg/kg and a DRO concentration of 4,540 mg/kg. The sample was also analyzed for BTEX, resulting in concentrations of 0.417 mg/kg for ethyl benzene, 1.57 mg/kg for total xylenes of 1.57 mg/kg and concentrations of benzene and toluene below detectable limits. The 20 ft sample resulted in a chloride concentration of 32 mg/kg, a DRO concentration of 3,150 mg/kg and a GRO concentration below detectable limits. The sample was also analyzed for BTEX resulting in a total xylenes concentration of 0.769 mg/kg and concentrations of benzene, toluene and ethyl benzene below detectable limits. The 25 ft sample resulted in a chloride concentration of 128 mg/kg, a DRO concentration of 50 mg/kg and a GRO concentration below detectable limits. The entire bore hole was plugged with bentonite to ground surface.

Vegetation has rebounded at this site; vegetation will act as an evapo-transpiration barrier that will also inhibit the downward migration of chlorides and hydrocarbons. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone.

The junction box site location map, area map, soil bore plat, log, laboratory analysis and current documentation are attached.

Recommendations

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-2967 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,
RICE Operating Company



Laura Flores
Environmental Project Assistant Manager

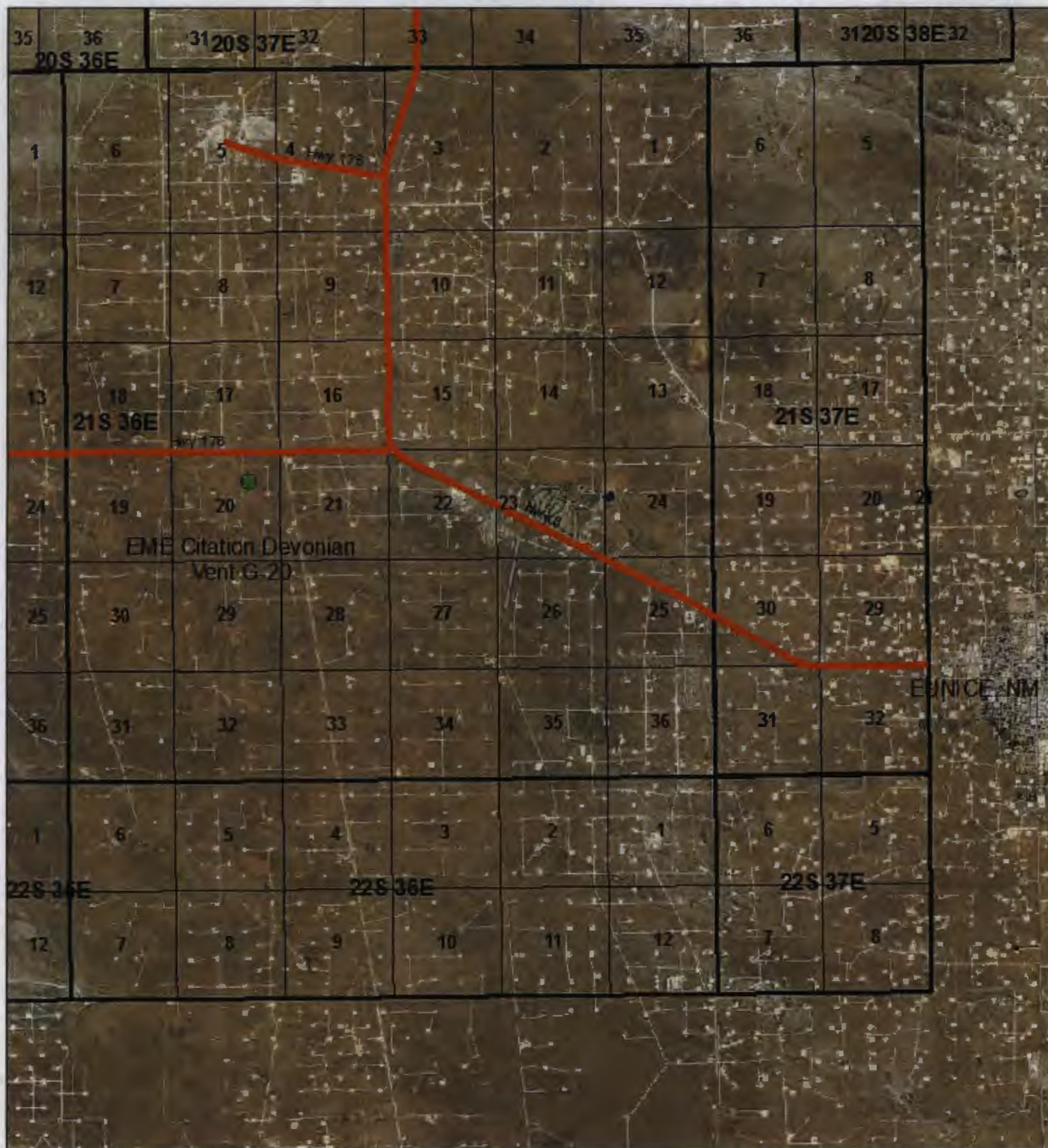
Enclosures



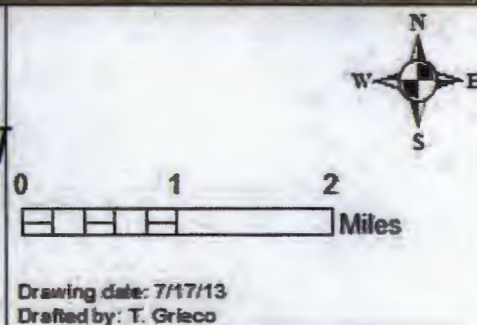
Site Maps

RICE *Operating Company* (ROC)
112 West Taylor Hobbs, NM 88240
Phone: (575) 393-9174 Fax: (575) 397-1471

Site Location Map



EME
CITATION DEVONIAN
VENT G-20
 UL G SECTION 20
 T-21-S R-36-E
 LEA COUNTY, NM



Geographical Location Map



EME CITATION DEVONIAN Vent G-20

UL G SECTION 20
T-21-S R-36-E
LEA COUNTY, NM



0 1,000 2,000
Feet

Drawing date: 7/17/13
Drafted by: T. Grieco

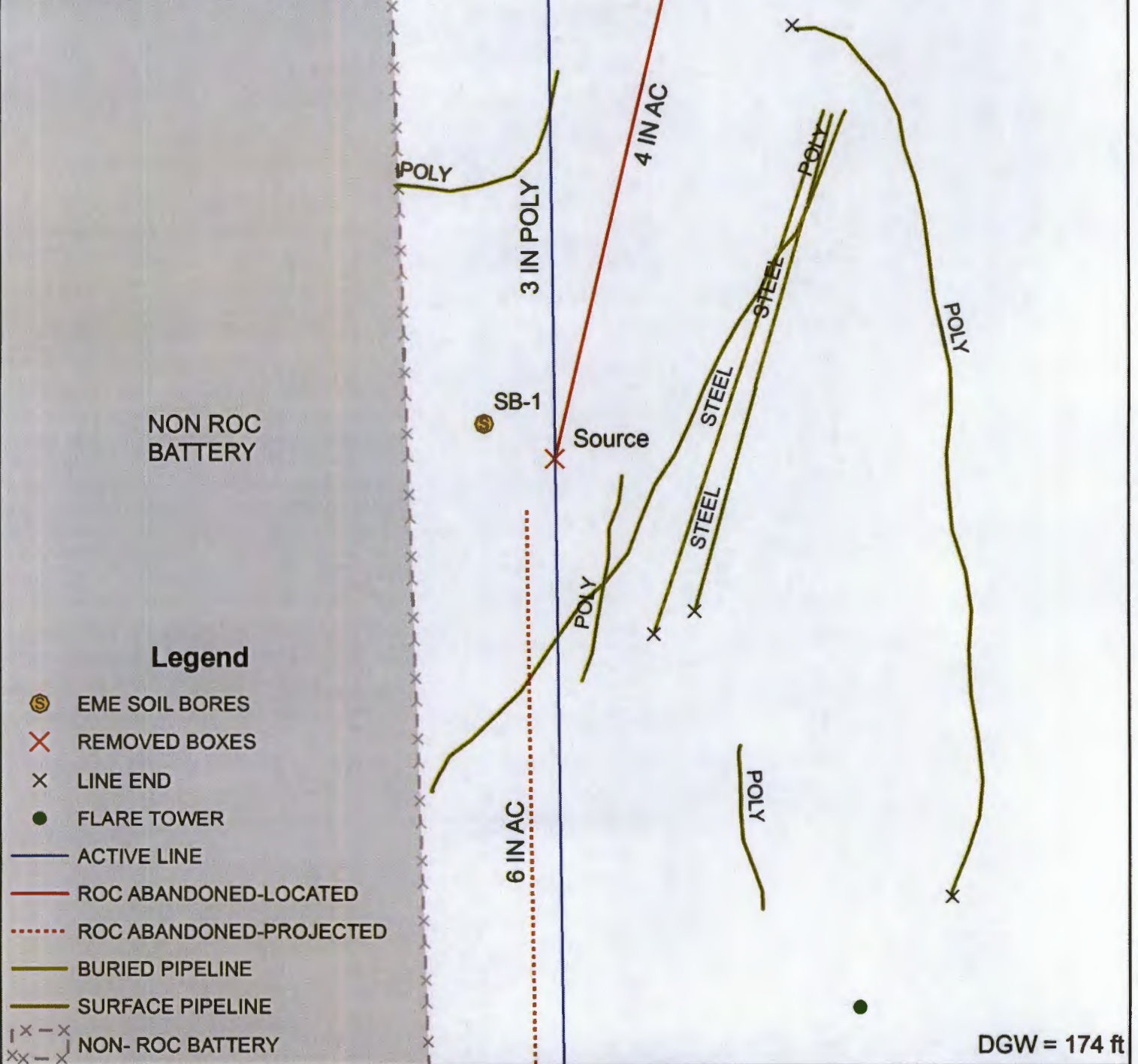


Soil Bore Installation Documentation

RICE *Operating Company* (ROC)
419 West Cain Hobbs, NM 88240
Phone: (575) 393-2967 Fax: (575) 393-0293

Soil Bore Installation

Depth	CI-	PID	Lab CI-	GRO	DRO	SB-1	B	T	E	X	BTEX
15	84	197.6	<16	131	4540	<0.2	<0.2	0.417	1.15	1.57	
20	141	161.2	32	<100	3150	<0.05	<0.05	<0.05	0.769	0.769	
25	201	13.6	128	<10	50						



**EME CITATION
DEVONIAN
G-20 EOL**
UL G SECTION 20
T-21-S R-36-E
LEA COUNTY, NM

