

1R - 426-1

REPORTS

DATE:

8/06/2005



Infrastructure, buildings, environment, communications

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AUG 29 2005

OIL CONSERVATION
DIVISION

ARCADIS G&M, Inc.
1004 N. Big Spring Street
Suite 300
Midland Texas 79701
Tel 432.687.5400
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www.arcadis-us.com

Wayne Price
New Mexico Oil Conservation Division
1220 So. Saint Francis Drive
Santa Fe, New Mexico 87505
Sent Certified Mail

Subject:

Request for Closure
Rice Operating Company Blinebry-Drinkard M-14 Junction Box Site
T21S, R37E, Section 14, Unit M Eunice, Lea County, New Mexico

Date:
26 August 2005

Dear Mr. Price,

On behalf of Rice Operating Company (ROC), ARCADIS G&M respectfully submits this request for the above-referenced site. A Junction Box Disclosure report was completed for this site on July 29, 2003 and submitted to the New Mexico Oil Conservation Division (NMOCD) per the ROC Junction Box Upgrade Workplan. An Investigation Workplan (attached) was submitted to the NMOCD on April 1, 2004.

Contact:
Sharon Hall

Phone:
432 687-5400

Email:
shall@arcadis-us.com

Site History and Background

The junction box was removed from the subject site. Following removal of the junction box, soil was excavated from the site. Per request of the landowner, the excavated soil was disposed at a permitted facility. The excavation measured 30 feet long by 30 feet wide and 12 feet deep.

Soil from the sidewalls and bottom of the excavation was sampled and analyzed for benzene, toluene, ethylbenzene, xylenes, (BTEX) GRO, DRO and chlorides. Additionally, soil samples were field tested for chlorides. Laboratory and field analytical results are shown in Tables 1 and 2 of the attached Investigation Workplan. The sidewall sample consisted of a 4-point composite sample, and the bottom sample consisted of a 5-point composite sample.

Based on the results of the soil sampling analytical results, elevated chloride and total petroleum hydrocarbon (TPH) concentrations are present at the subject site. The excavation was backfilled with clean fill provided by the landowner, and the site was graded and seeded with native vegetation.

As proposed in the Investigation Workplan, a soil boring was installed at the subject site at the former junction box location on May 10, 2005. Soil samples were collected

Part of a bigger picture

ARCADIS

Wayne Price
August 26, 2005

at regular intervals no greater than five feet, screened in the field using a photo ionization detector (PID) and field tested for chlorides using field adapted method 9253. Soil lithology and the presence of any observed staining or odor was recorded and is shown in the attached Boring Log. Two samples, the sample collected at total depth of the boring and the sample collected from the interval one to five feet above the total depth was submitted to a laboratory for laboratory analysis for chlorides and BTEX. The analytical report is attached.

The soil boring was drilled to a total depth of 61 feet below ground surface. The boring terminated in Triassic red shale and no groundwater was encountered in the boring. Based on the fact that no groundwater is present at the junction box site and that impacted surface soils have been excavated ARCADIS respectfully requests closure of the site on behalf of ROC. If you have any questions or require additional information please do not hesitate to call me at 432 687-5400 or Kristin Pope at (505) 393-9174.

Very Truly Yours,

ARCADIS G&M, Inc.

Sharon E. Hall

Sharon E. Hall
Site Evaluation Department Manager

Copies:

Carolyn Haynes- Rice Operating Company
Kristin Pope- Rice Operating Company

Attachments:

Investigation Workplan

Boring Log

New Mexico Office of The State Engineer Well Record

Analytical report

Junction Box Final Report

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
BD	M-14	M	14	21 S	37 E	Lea	no box-junction eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Charles Bettis OTHER _____

Depth to Groundwater none feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 4/15/2003 Date Completed 5/10/2005 OCD Witness No

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

Soil Disposed 400 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 4/24/2003, soil bore on 5/10/2005 Sample Depth 12, 55-60, 61 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	Chloride mg/kg
4-WALL COMP.	<0.025	<0.025	<0.025	<0.025	16.2	621	5810
BOTTOM COMP.	<0.025	<0.025	<0.025	<0.025	<10.0	40	7020
BORE @ 55-60 ft	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	8900
BORE @ 60-61 ft	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	4710

General Description of Remedial Action:

The site was delineated using a backhoe and chloride concentrations did not exhibit a decline with depth. The excavated soil from the 30 x 30 x 12-ft-deep excavation was disposed of at a permitted facility and the landowner's clean soil was used to backfill on 6/26/2003. At the landowner's request, no liner or barrier was installed. The disturbed surface was seeded with a blend of native vegetation. NMOCD was notified of potential groundwater impact at this site on 4/30/2003. The junction box report detailing these activities was delivered to NMOCD with the 2003 yearly junction box reports. This site was deemed a major project and ROC contracted Arcadis, G & M of Midland, Texas to investigate potential environmental concerns at this site. A work plan for this site was submitted to NMOCD on 4/1/2004 and approval was granted on 11/18/2004. On 5/10/2005, a rig was mobilized at the site and a soil bore was initiated to delineate the extent of impact. The bore was advanced to a depth of 61 ft where Triassic red shale was encountered. No groundwater was present below this site, therefore, allowing the constituents of concern to remain in place does not pose a threat to groundwater. Closure of this regulatory file is requested.

cc: bore log, photos, lab analysis

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

DATE 8/25/2005 PRINTED NAME Kristin Farris Pope

SIGNATURE _____ TITLE Project Scientist

BD jct. M-14

delineation soil bore

May 10, 2005



former junction box site marked with flagged stake (before drilling)



NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Rice Operating Co. Work Phone: _____
Contact: _____ Home Phone: _____
Address: 122 W. Taylor
City: Hobbs State: NM Zip: 88240

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. 1/4 1/4 1/4 Section: 14 Township: _____ Range: _____ N.M.P.M.
in Unit M, 21S, 37E, Lea County County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 28 m 26.2 s Longitude: 103 d 08 m 31.6 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Rice Operating Co.

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD:

Drilling began: 05/10/05; Completed: 05/10/05; Type tools: Air Rotary;
Size of hole: 7 7/8 in.; Total depth of well: 61.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)
From	To			

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
From	To				
61.0	3.0	7 7/8"	29		Hand Pour
3.0	0.0	7 7/8"	2.5	0.68	Hand Mix

8. PLUGGING RECORD

Plugging Contractor: _____
 Address: _____
 Plugging Method: _____
 Date Well Plugged: _____

Plugging approved by: _____
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			
5			

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

Multiple horizontal lines for writing additional statements or explanations.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.



Driller

05/26/05

(mm/dd/year)

=====

FOR STATE ENGINEER USE ONLY

Quad _____ ; FWL _____ ; FSL _____ ; Use _____ ; Location No. _____

File Number: _____
Form: wr-20

Trn Number: _____



ARCADIS

BORING LOG

BORING NO.

BD M-14

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432 687-5400 Fax: 432 687-5401

Page 1 of 2

PROJECT NUMBER: MT000834.0001	DRILLING CO: White Drilling Company
CLIENT NAME: Rice Operating Company	DRILLING METHOD: Rotary/Air
PROJECT NAME: Junction Boxes Investigation	DRILLER: Bo Atkins
SITE LOCATION: Lea County, New Mexico	LOGGER: R. Lang
UNIQUE NUMBER: 31-014-00721	FILE NAME: BD M-14.dat
	DATE BEGUN: 5/10/05
	DATE COMPLETED: 5/10/05

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	PID READING	CHLORIDES	LITHOLOGY	DESCRIPTION
0									
		Shovel				66	290		SAND: GLEY 2 G/1 10 BG greenish gray, medium grained to fine grained SAND, subangular, well sorted, loose to very soft, odor.
-5		Shovel				33	344		
-10		Shovel				15.6	1139		SANDSTONE: 5 YR reddish yellow, fine grained, subangular, well sorted, very soft, CALICHE nodules, soft to hard.
-15		Shovel				20.5	4233		
-20		Shovel				5.5	1998		SAND: 5 YR 7/4 pink, fine grained, subangular, well sorted, loose, CALICHE nodules, rare SANDSTONE 5 YR 7/4 fine grained, subangular, well sorted, hard interbeds, slightly moist.
-25		Shovel				7.4	2528		
-30		Shovel							



ARCADIS

BORING LOG

BORING NO.

BD M-14

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432 687-5400 Fax: 432 687-5401

Page 2 of 2

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DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	PID READING	CHLORIDES	LITHOLOGY	DESCRIPTION
-35		Shovel				5.9	1919		
-40		Shovel				2.5	3640		
-45		Shovel				5.6	5012		SAND: 5 YR 7/4 pink, fine grained, loose, well sorted, became moist at -49.0', some thin CLAY interbeds.
-50		Shovel				6.2	7658		
-55		Rock Core				4.5	6692		
-55		Shovel				3.8	5696		
-60		Shovel				4.3	8863		SHALE: 10 R 5/4 weak red, finely to coarsely bedded, SILTY, rare nodules, GLEY 1 8/1 light greenish gray, dry.
-60		Rock Core				6.9	3642		