

1R - 426-183

# REPORTS

DATE:

1-20-09

BD New Mexico 'D' EOL

1R426-183

RECEIVED

MAR 25 2009

Environmental Bureau  
Oil Conservation Division

CLOSURE

RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Blinebry-Drinkard (BD)	New Mexico 'D' EOL	H	36	22S	37E	Lea	eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER D.K. Boyd Oil and Gas OTHER \_\_\_\_\_

Depth to Groundwater <sup>no reportable groundwater per USGS</sup> \_\_\_\_\_ feet NMOCSD SITE ASSESSMENT RANKING SCORE: 0

Date Started 6/18/2007 Date Completed 8/10/2007 OCD Witness no

Soil Excavated 467 cubic yards Excavation Length 30 Width 35 Depth 12 feet

Soil Disposed 420 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 6/25/2007, 6/26/2007, 6/27/2007, 8/10/2007 Sample Depth 12, 60 ft

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

CHLORIDE FIELD TESTS

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
3-WALL COMP.	0.1	<50.0	<50.0	1392
BOTTOM COMP.	0.0	<25.0	<25.0	1008
BACKFILL	0.0	<25.0	<25.0	1775
SOIL BORING grab				128

LOCATION	DEPTH	mg/kg
3-wall comp.	n/a	1540
bottom comp.	12'	695
backfill comp.	n/a	1277
soil boring 13 ft southwest of the fence corner	5'	147
	10'	238
	15'	178
	20'	238
	25'	298
	30'	574
	35'	959
	40'	863
	45'	1035
	50'	903
	55'	343
	60'	247

General Description of Remedial Action: This junction was eliminated during the pipe-

line replacement/upgrade program. After the former box was removed, an investigation was con-

ducted using a backhoe to collect soil samples at regular intervals, producing a 30x35x12-ft-deep

hole. Chloride field tests were performed on each sample, which yielded elevated levels of chloride.

Organic vapors were measured using a PID, which yielded low concentrations. The remaining

excavated soil was blended on-site and returned to the excavation. Clean, imported caliche was

used to backfill the excavation up to 6 ft below ground surface. At 6-5 ft BGS, a 1-ft-thick clay

barrier was installed. Clean, imported soil was used to backfill the excavation to ground surface

and to contour to the surrounding area. On 7/10/2007, the site was seeded with a blend of native

vegetation and is expected to return to a productive capacity at a normal rate. To further

investigate depth of chloride presence, a soil boring was initiated on 8/10/2007 at 13 ft southwest of the fence corner. The boring was advanced to 60 ft

BGS while soil samples were collected every 5 ft and tested for chloride concentration, which yielded chloride levels that relented with depth. The 60 ft

sample was analyzed by a commercial laboratory for chloride which yielded a low concentration of chloride. The entire bore hole was plugged with

bentonite to ground surface.

enclosures: photos, groundwater data, cross-section, lab results, PID screening, boring log, chloride curve

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

SITE SUPERVISOR Roy Rascon SIGNATURE not available COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 1-20-09

# BD New Mexico 'D' EOL

Unit H, Section 36, T22S, R37E



delineation trench, facing north

6/19/2007



30x30x12-ft-deep excavation, facing east

6/26/2007



backfilling excavation to 6 ft BGS, facing north

7/2/2007



clay barrier installed, facing south

7/3/2007



backfilling excavation with clean, imported soil, facing north

7/6/2007

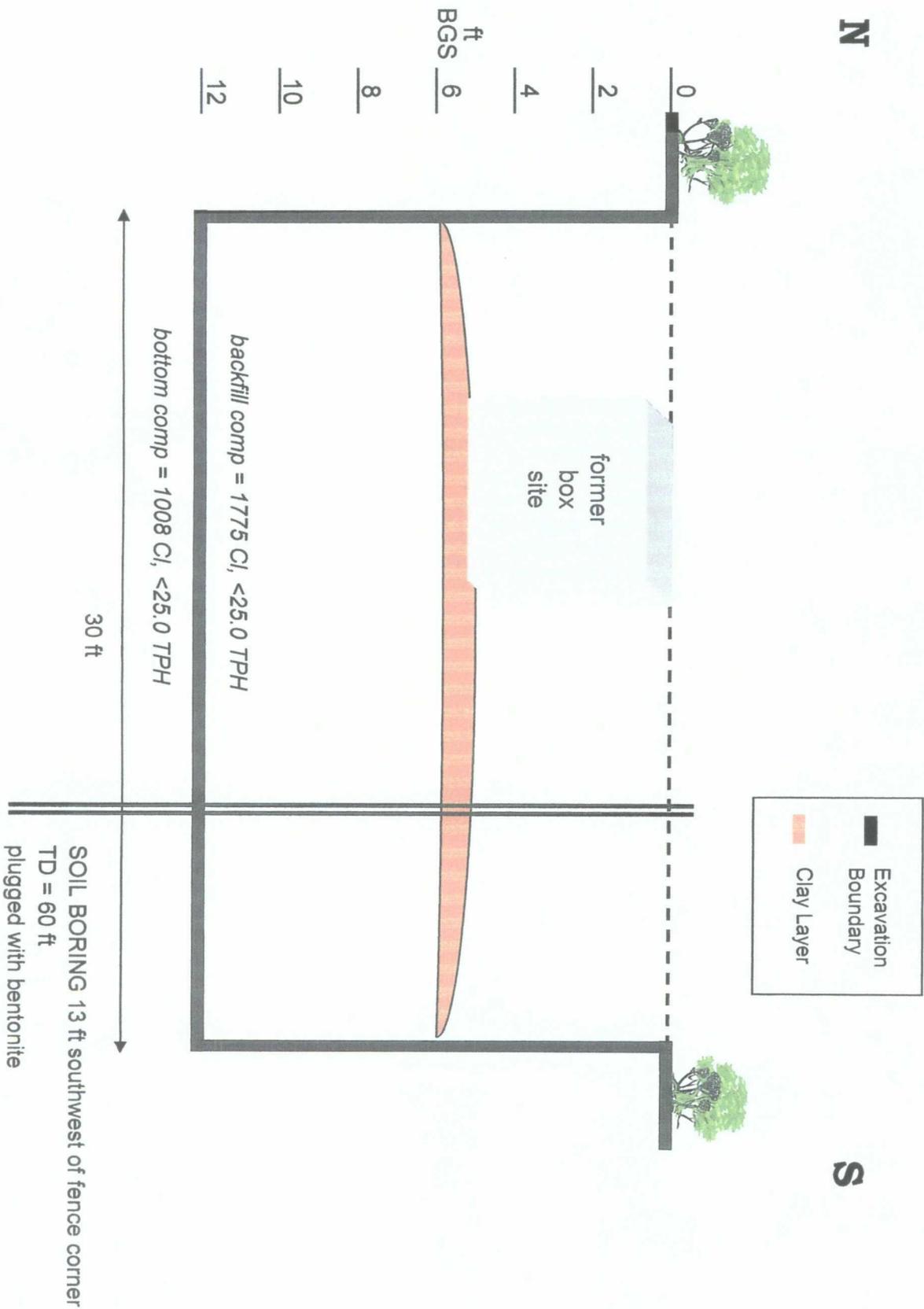


seeding backfilled site, facing north

7/10/2007

BD New Mexico 'D' EOL  
Unit H, Section 36, T22S, R37E

Excavation Cross-Section



BD Conoco Phillips New Mex. 'D' EOL  
Unit 'H', Sec. 36, T22S, R37E

COPY

This site is in a draw area that is known to locals and ranches to have a lack of groundwater. Just East of the site is the geologic feature known as "Rattlesnake Ridge" which is characterized by groundwater greater than 200 ft deep or none at all.

A USGS database search yielded a well located in unit 'G' of Section 36, T22S, R37E, about 1300 ft due West of the subject site. A field check of this site revealed that the USGS is apparently mislabeled because the nearest well is about 3300 ft West of the subject site. This well has a windmill that is sealed with a packer and doesn't appear to have operated for some time.

ROC reasonably concludes that no groundwater is located below this site.

Kristin Pope

6/13/2007



# 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 R. RASCON  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (505) 397-1471

# COPY

Receiving Date: 06/27/07  
Reporting Date: 06/28/07  
Project Number: NOT GIVEN  
Project Name: BD CONOCO PHILLIPS NM "D" EOL JCT BOX  
Project Location: NOT GIVEN

Sampling Date: 06/25/07-06/27/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: LB  
Analyzed By: LB/AB

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>12</sub> ) (mg/Kg)	DRO (>C <sub>12</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
	ANALYSIS DATE	06/27/07	06/27/07	06/27/07
H12822-1	Blended Backfill 12 PT Comp	<25.0	<25.0	1775
H12822-2	5 Pt Bttm Comp. @12' BGS 30' X 35'	<25.0	<25.0	1008
		<50.0 **	<50.0	1392
H12822-3	3 Wall Comp.			
	Quality Control	856	778	500
	True Value QC	1000	1000	500
	% Recovery	85.6	77.8	98
	Relative Percent Difference	3.9	11.6	1.0

\*\* Matrix interference required sample dilution which increased the reporting limit.

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

\*Analyses performed on 1:4 w:v aqueous extracts.

  
\_\_\_\_\_  
Chemist

6/28/07  
\_\_\_\_\_  
Date

H12822A RICE

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# RICE OPERATING COMPANY

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

CK.	<b>X</b>
MODEL	
NO.	

MODEL: PGM 7600	SERIAL NO: 110-013676
MODEL: PGM 7600	SERIAL NO: 110-013744
MODEL: PGM 7600	SERIAL NO: 110-12383
MODEL: PGM 7600	SERIAL NO: 110-012920

## COPY

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : 06-3079	EXPIRATION DATE: 12-16-07
FILL DATE: 6-16-06	METER READING ACCURACY: 100

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
<b>BD</b>	CONOCO PHILLIPS NM "D" EOL	<b>H</b>	<b>36</b>	<b>22S</b>	<b>37E</b>

SAMPLE ID	PID	SAMPLE ID	PID
N wall comp. @ 5' N	0		
S wall comp @ 20'S	0		
E wall comp @ 10' E	0		
W wall comp @ 20' W	0		
4 wall comp. @ 35'L x 30'W	0.1		
Bttm 5pt comp. @ 12 bgs	0		
blended backfill 12pt comp. 6-25-07	0		

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

SIGNATURE: *Ray R. Rascon*

DATE: 6-26-07

COP

<b>Logger:</b>	Lara Weinheimer	<b>Client:</b>	RICE Operating Company	<b>Well ID:</b>  SB - 2
<b>Driller:</b>	Harrison & Cooper Drilling	<b>Project Name:</b>	BD New Mexico 'D' EOL	
<b>Drilling Method:</b>	Air rotary	<b>Location:</b>	BD SWD System	
<b>Start Date:</b>	8-10-07		UL:'H' Sec.36 T22S, R37E	
<b>End Date:</b>	8-10-07		Lea County, NM	
<b>Comments:</b> Located 13ft SW of Battery's SW fence corner  TD = 60 ft      GW = none				

Depth (feet)	chloride lab tests	Description	Lithology	Soil Bore Construction	
		0 - 5 ft RICH TOP SOIL brown, dry		cuttings	
5	147	5 - 10 ft VERY FINE TO COARSE SAND light tan, dry			
10	238	10 - 15 ft FINE TO COARSE SAND light tan, dry			
15	178	15 - 25 ft MEDIUM TO COARSE SAND light tan, dry			
20	238	25 - 30 ft FINE TO COARSE SAND reddish-tan, dry			
25	298	30 - 35 ft VERY FINE TO MEDIUM SAND tan sand, dry			
30	574	35 - 45 ft VERY FINE TO FINE SAND yellowish-orange, dry			
35	959	45 - 60 ft RED CLAY dry			bentonite seal
40	863				
45	1035				
50	903				
55	343				
60	247				

CHLORIDE CONCENTRATION CURVE

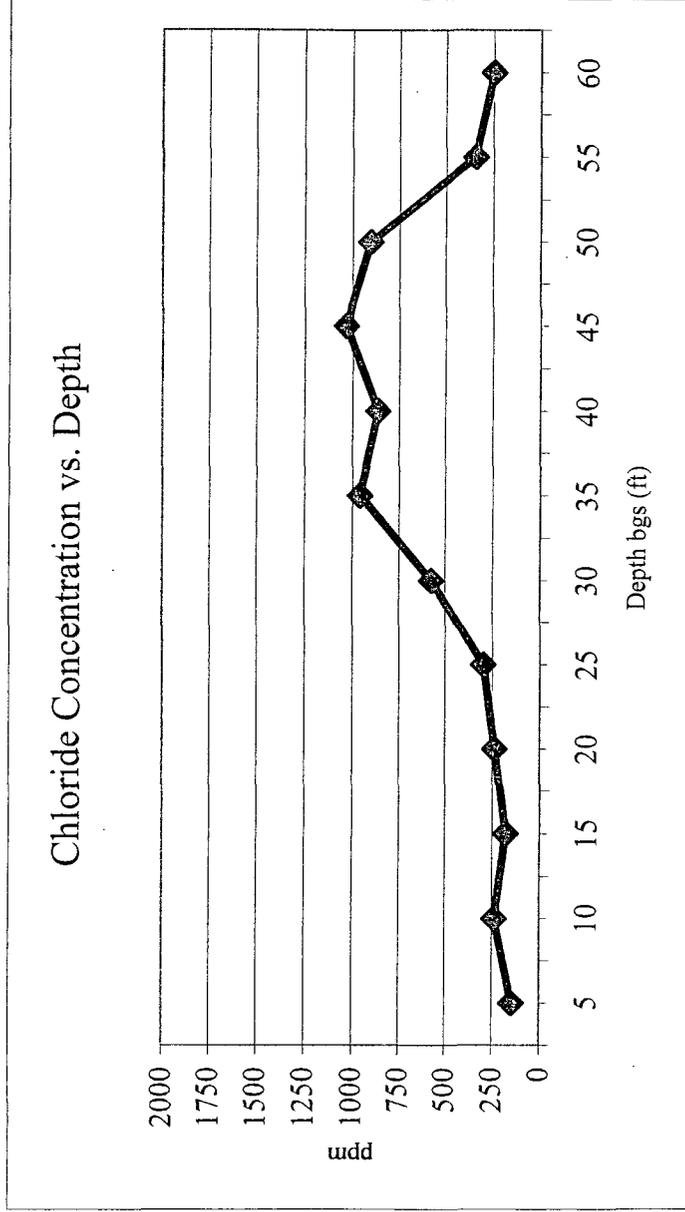
RICE Operating Company

**BD New Mexico 'D' EOL**

Unit 'H', Sec. 36, T22S, R37E

Soil boring samples at 13 ft southwest of fence corner

Depth bgs (ft)	Cl <sup>-</sup> ppm
5	147
10	238
15	178
20	238
25	298
30	574
35	959
40	863
45	1035
50	903
55	343
60	247



Groundwater = no reportable  
groundwater per  
USGS