

AP - 58

**STAGE 1 & 2
REPORTS**

DATE:

8-3-10



CERTIFIED MAIL
RETURN RECEIPT NO. 7008 1300 0002 4401 9979

August 3, 2010

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: STAGE 2 PROGRESS REPORT
BD SANTA RITA EOL RELEASE SITE (AP-58)
T22S, R37E, SECTION 27, UNIT LETTER A
LEA COUNTY, NEW MEXICO**

Mr. Hansen:

On behalf of Rice Operating Company (ROC), we would like to submit this Stage 2 Progress Report to document the corrective actions performed at the BD Santa Rita EOL Release site (AP-58). Excavation, backfilling, lining, and re-seeding of the vadose zone have been completed. Documentation of these activities is included in Attachment A. In addition, a downgradient monitoring well (MW-4) and recovery well (RW-1) were installed (Attachment B), and groundwater recovery activities were initiated at RW-1 on June 22, 2010. A chronology of these Stage 2 corrective actions follows on page 2.

ROC is the service provider (agent) for the Blinbry Drinkard (BD) Saltwater Disposal (SWD) System and has no ownership of any portion of pipeline, well, or facility. The BD SWD System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration concerning this progress report. If you have any questions, please contact Hack Conder at (575) 393-9174.

Sincerely,

A handwritten signature in black ink that reads "Gilbert J. Van Deventer". The signature is written in a cursive style with a long horizontal stroke at the beginning.

Gilbert J. Van Deventer, PG, REM

cc: Hack Conder (ROC)
Buddy Hill (NMOCD-District 1)

Enclosures: chronology of corrective actions, lab analyses, photo documentation, lithologic logs, well completion diagrams

Chronology of Stage 2 Corrective Actions

February 27, 2009 Monitoring Well MW-1 plugged to allow excavation operations.

March 24, 2009 Excavation activities initiated. A 5 point bottom composite was collected at 15 ft below ground surface (BGS) and at 20 ft BGS. 600 yd³ of excavated soil hauled to Sundance Services, Inc. (NM1-3-0)

March 25, 2009 A 5 point bottom composite was collected at 25 ft BGS. 960 yd³ of excavated soil hauled to Sundance Services, Inc. (NM1-3-0)

March 26, 2009 A 5 point bottom composite was collected at 30 ft BGS. 280 yd³ of excavated soil hauled to Sundance Services, Inc. (NM1-3-0)

March 27, 2009 240 yd³ of excavated soil hauled to Sundance Services, Inc. (NM1-3-0)

March 30, 2009 Excavation activities completed. Total of 2,080 yd³ soil hauled off.

April 1, 2009 36 yd³ of clay (40 ft by 20 ft) installed at bottom of excavation (30 ft bgs)
Compaction test result = 96.7.

April 6, 2009 20-mil plastic liner (40 ft by 20 ft) installed on top of clay barrier (29 ft bgs)
36 yd³ of sand installed on top of plastic liner (top of sand at 28 ft bgs)
696 yd³ of caliche installed above sand layer (top of caliche 12 ft bgs)

April 7, 2009 96 yd³ of clay installed on top of caliche and bench (top of clay at 11 ft bgs)
Compaction test result = 95.6.
20-mil plastic liner (40 ft by 50 ft) installed above clay layer (11 ft bgs)
72 yd³ of sand installed on top of plastic liner (top of sand at 10 ft bgs)
264 yd³ of caliche to begin backfilling site.

April 8, 2009 240 yd³ of caliche installed above sand layer (top of caliche 5 ft bgs)

April 13-14, 2009 792 yd³ of sand installed above caliche layer (top of sand 0 ft bgs)

April 16, 2009 60 yd³ of peanut hay blended with peat moss (40 bags), soil conditioner (30 bags), and topsoil. Disked onto surface (13,208 ft²)

April 17, 2009 Ditched and installed a poly line across site and recovered with backfill.
Applied 30 lbs of Boyd seed mix over site (13,208 ft²) using tractor.
Installed fence and wind barrier.

June 16, 2009 Downgradient monitoring well (MW-4) installed.

June 17, 2009 Recovery well (RW-1) installed.

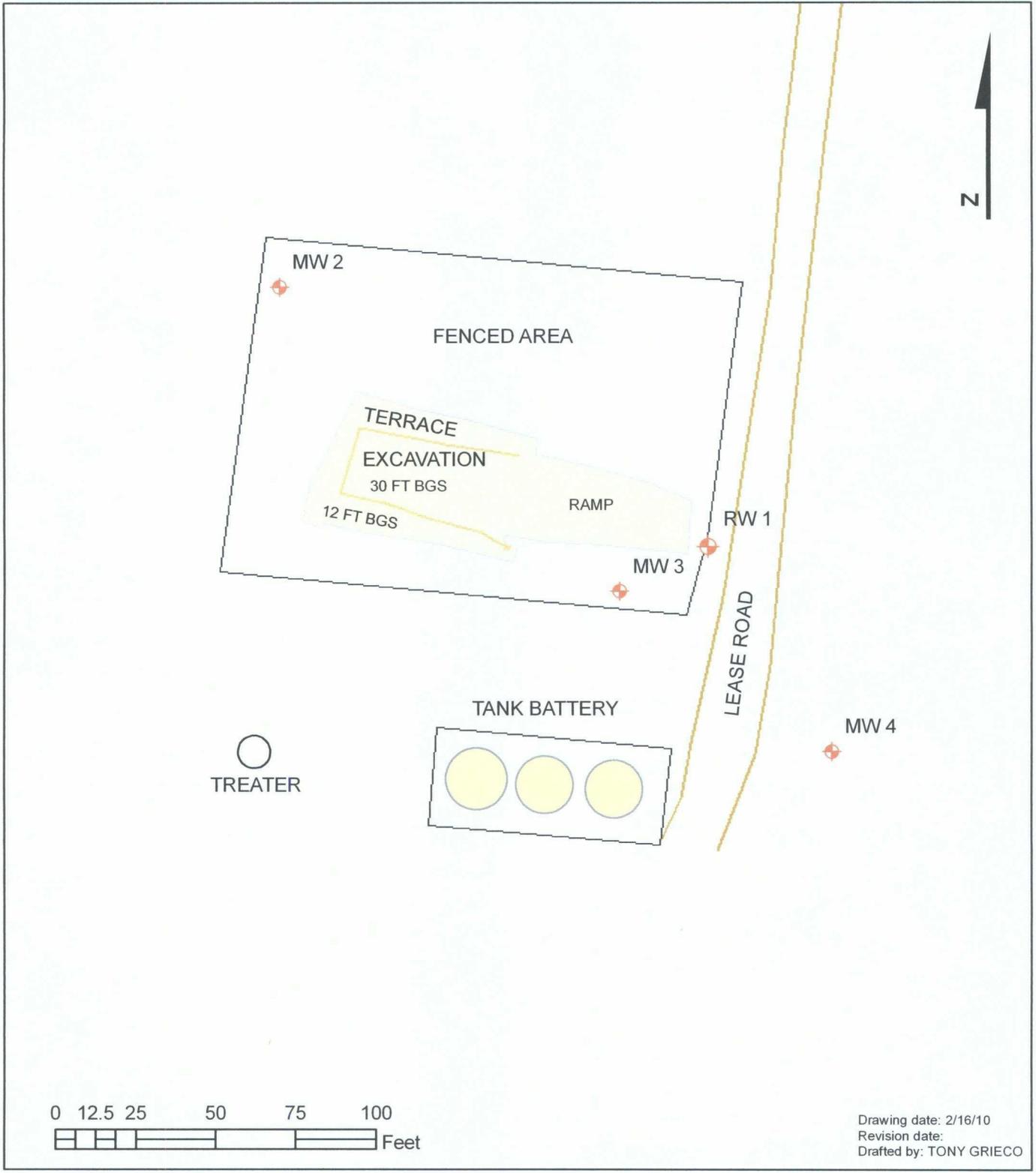
June 22, 2010 Groundwater recovery activities initiated at recovery well RW-1.



ATTACHMENT A

EXCAVATION, BACKFILLING, CLAY/PLASTIC LAYERS, SEEDING

- 
- Site Map
 - Cross Sections
 - Photo documentation
 - Laboratory Analytical Reports
 - Compaction and Hydraulic Conductivity Tests
- 



Drawing date: 2/16/10
 Revision date:
 Drafted by: TONY GRIECO



Blinebry Drinkard (BD)
SANTA RITA EOL (AP-58)
 UL/A , SEC 27, T-22-S, R-37-E
 GW: 54 FT

Figure 1
 SITE MAP

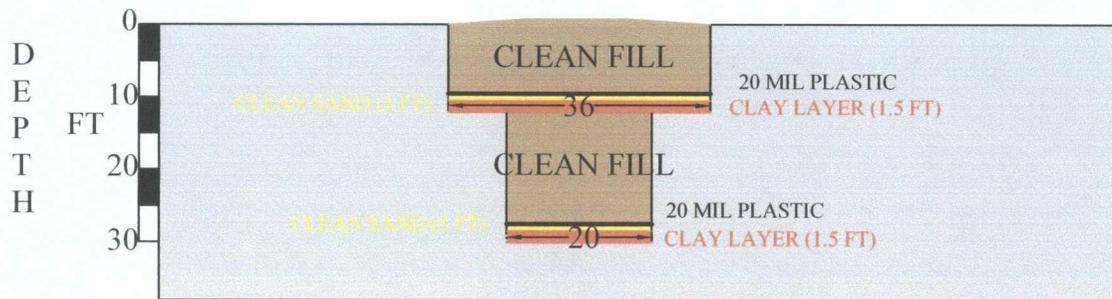
SANTA RITA LEAK CROSS SECTIONS

UL/A SEC 27 T-22-S R-37-E

GW 54 FT

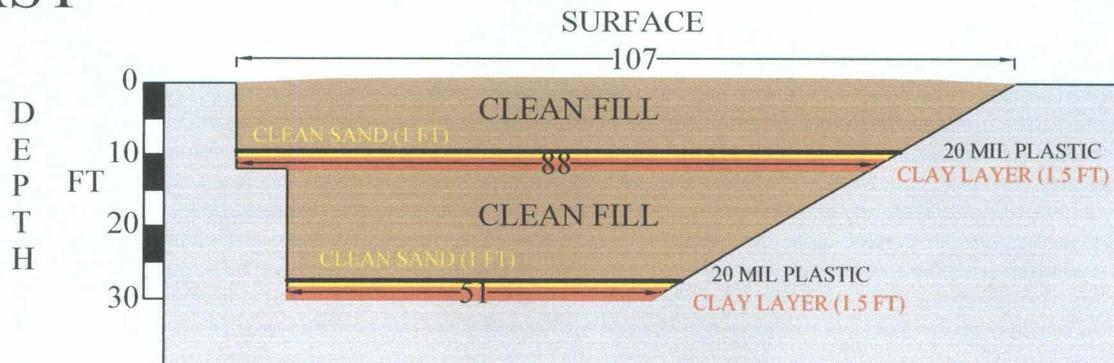
NORTH

SOUTH



EAST

WEST



Surface excavation size: 36' x 107'

Top shelf excavation size: 36' x 88' x 12'

Bottom shelf excavation size: 20' x 51' x 30'

BD Santa Rita EOL Release Site (AP-58)



Facing SE: Source area and MW-1 after plugging



Facing WNW: Source area just prior to excavation



Facing WNW: Excavation completed to 30 ft bgs (3-30-09)



First clay layer (20 ft by 40 ft) at 30 ft bgs (04-01-09)



Plastic liner above first clay layer at 29 ft bgs (04-06-09)



Sand layer above first plastic layer (04-06-09)

BD Santa Rita EOL Release Site (AP-58)



Caliche backfill up to ~12 ft bgs (04-07-09)



Second clay layer (40 ft by 50 ft) at 12 ft bgs (04-07-09)



Plastic liner above second clay layer at 11 ft bgs (04-07-09)



Sand layer above second plastic layer (04-07-09)



Caliche backfill up to ~5 ft bgs (04-08-09)



Sand layer up to surface grade (04-14-09)

BD Santa Rita EOL Release Site (AP-58)



Peanut hay, peat moss, and soil conditioner (04-16-09)



Final cover (04-16-09)



New poly line across site (04-17-09)



Disking and seeding site (04-17-09)



Healthy vegetation growth established soon after seeding (06/25/09)



Recent photo (07/15/10) showing healthy vegetation growth (foreground) and groundwater recovery system (background)



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 Fax (575) 393-2476

BILL TO			ANALYSIS REQUEST									
P.O. #:												
Company: SAME												
Attn:												
Address:												
City:												
State:												
Phone #:												
Fax #:												
Project Name: SANTA RITA												
Project Location: B.O. SANTA RITA												
Sampler Name: Darnell Mitchell												
Project Owner:												
State: N.M. zip: 88240												
Fax #: 575-397-1471												
Project #:												
Project Name: SANTA RITA												
Project Location: B.O. SANTA RITA												
Sampler Name: Darnell Mitchell												
FOR LAB USE ONLY												
Lab I.D.	Sample I.D.	(G/RAB OR C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME				
H17035-		0	1	WASTEWATER	✓	✓	3-24-09	1:15pm				
1	15 FT. SPT. COMPOSIT	0	1	SOIL	✓	✓	3-24-09	5:0pm				
2	20 FT. SPT. COMPOSIT	0	1	GROUNDWATER	✓	✓	3-25-09	5:30pm				
3	25 FT. SPT. COMPOSIT	0	1	SLUDGE								
				OIL								
				OTHER								
				ACID/BASE								
				ICE / COOL								
				OTHER								

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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.

Phone Result: No Add'l Phone #:
 Fax Result: No Add'l Fax #:

REMARKS:
 RESULTS B. Baker @ Rice SWD @ COM
 J Purvis @ Rice SWD @ COM

Received By: _____
 Date: _____ Time: _____
 Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: _____

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 Fax (575) 393-2476

BILL TO		ANALYSIS REQUEST									
P.O. #:											
Company: SAME											
Attn: Darnell Mitchell											
Address: 122 W. Taylor											
City: Hobbs											
State: NM Zip: 88240											
Phone #: 575-397-1471											
Project #:											
Project Name: SANTA RITA											
Project Location: B.O SANTA RITA											
Sampler Name: Darnell Mitchell											
FOR LAB USE ONLY		# CONTAINERS		G/RAB OR (COMP)		MATRIX		PRESERV		SAMPLING	
Lab I.D. Sample I.D.		C 1		GROUNDWATER		WASTEWATER		ICE / COOL		DATE TIME	
H1739-1 30ET SPT. COMPOST				WASTEWATER		SOIL		ACID/BASE		3-26-09 3:50pm	
				GROUNDWATER		OIL		OTHER			
				WASTEWATER		SLUDGE		OTHER			
				GROUNDWATER				OTHER			

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished: Darnell Mitchell Date: 3/26/09 Time: 4:05

Relinquished By: [Signature] Date: 3/26/09 Time: 1:32

Received By: [Signature] Date: 3/26/09 Time: 1:32

Delivered By: (Circle One) Bus Other

Phone Result: No Add'l Phone #:

Fax Result: No Add'l Fax #:

REMARKS: RESULTS B. Baker @ Rice Swd .COM
J Purvis @ Rice Swd .COM

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



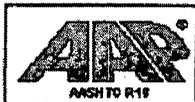
PROJECT: Rice Operating-Cooper Red Clay
 LOCATION: Hobbs, New Mexico
 MATERIAL: Native Soil
 SAMPLE SOURCE: Cooper Red Clay
 SAMPLE PREP: Remolded to 95% max dry density and optimum moisture
 TARGET: Max dry density D688A 100.4 pcf @ 21.6% opt. moisture

JOB NO: 8-119-000624
 WORK ORDER NO: 11
 LAB NO: 23
 DATE SAMPLED: 1/22/09

MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS MATERIALS
 USING A FLEXIBLE WALL PERMEAMETER (ASTM 5084-00)
 "CV" METHOD F

AVERAGE PERMEABILITY		2.18E-08 cm/sec
INITIAL LENGTH OF SPECIMEN		7.18 cm
INITIAL DIAMETER OF SPECIMEN		7.15 cm
INITIAL WATER CONTENT		21.3 %
INITIAL DRY UNIT WEIGHT		95.3 pcf
INITIAL VOLUME		17.59 cu.in
PERMEANT LIQUID		BOTTLED WATER
MAGNITUDE OF TOTAL BACK PRESSURE		72.2 psi
EFFECTIVE CONSOLIDATION STRESS		5 psi
RANGE OF HYDRAULIC GRADIENT USED	31.7	to 29.5
FINAL LENGTH OF SPECIMEN		7.21 cm
FINAL DIAMETER OF SPECIMEN		7.19 cm
FINAL WATER CONTENT		29.6 %
FINAL DRY UNIT WEIGHT		93.8 pcf
FINAL VOLUME		17.86 cu.in
DEGREE OF SATURATION (BEFORE AND AFTER TEST)	77%	and 103%
SPECIFIC GRAVITY USED IN CALCULATIONS OF SATURATION		2.651

TIME INTERVAL	K	K
sec	cm/sec	ft/yr.
390	2.19E-08	0.02
514	2.15E-08	0.02
890	2.15E-08	0.02
1146	2.14E-08	0.02



REVIEWED BY



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.

1110 N. GRIMES
 HOBBS, NM 88240
 (575) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
 WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating Company
 Attn: Hack Conder
 122 W. Taylor
 Hobbs, NM 88240

Material: Cooper Red Clay

Project: General Information
 Project No. 2008.1069

Test Method: ASTM: D 2922

Date of Test: April 1, 2009

Depth: See Below

Depth of Probe: 12"

Test No.	Location	Dry Density		Depth
		% Max	% Moisture	
SG 11	Building Box - 8' E. & 18' S. of NW Corner	96.7	14.4	28' Below Surface

Control Density: 100.4
 ASTM: D 698

Optimum Moisture: 21.6%

Required Compaction: 90 - 95%

Densometer ID: 5357

Lab No.: 09 1990-1991

PETTIGREW & ASSOCIATES

Copies To: Rice Operating

BY: *Erica M. Hart*

BY: *Cory [Signature]* P.E.



*Corrected Copy 5/21/10
LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
 1110 N. GRIMES
 HOBBS, NM 88240
 (575) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
 WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating Company
 Attn: Hack Conder
 122 W. Taylor
 Hobbs, NM 88240

*** Material:** Cooper Red Clay

Test Method: ASTM: D 2922

Project: General Information
 Project No. 2008.1069

Date of Test: April 7, 2009

Depth: See Below

Depth of Probe: 6"

Test No.	Location	Dry Density		Depth
		% Max	% Moisture	
SG 11a	Santa Rita BD System	95.6	17.0	FSG

***Control Density:** 100.4
 ASTM: D 698

Optimum Moisture: 21.6%

Required Compaction: 90 - 95%

Densometer ID: 5357
 PETTIGREW & ASSOCIATES

Lab No.: 10 4869-4870

Copies To: Rice Operating

BY: Erica M. Nact
 BY: Debra P. Hicks P.E.

ATTACHMENT B

INSTALLATION OF MW-4 AND RW-1

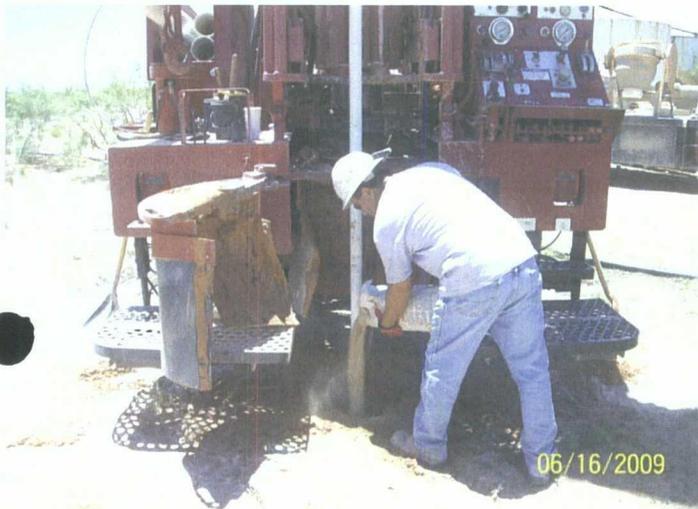
- Photo documentation
- MW-4: Lithologic Log & Well Construction
- RW-1: Well Construction Diagram
- Groundwater Gradient Map (April 9, 2010)
- Laboratory Analytical Report (April 9, 2010)



BD Santa Rita - drilling MW-4



Setting the casing for MW-4



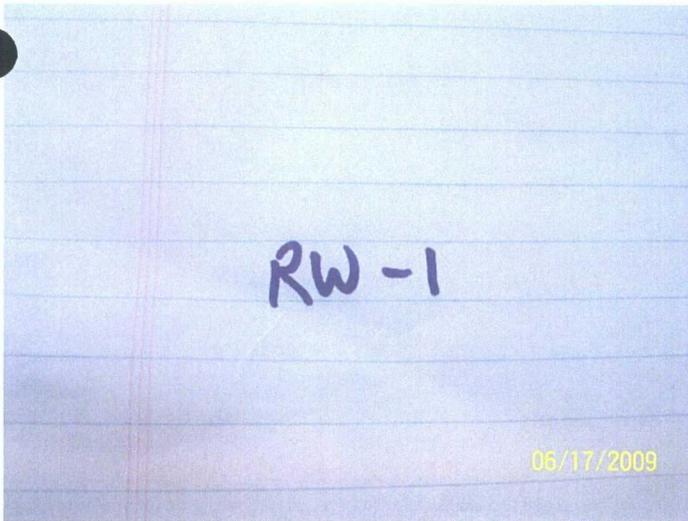
Putting in the sand filter



Concreting the well in



Completed MW-4



BD Santa Rita



Drilling RW-1



Mudding in the well



Placing the casing

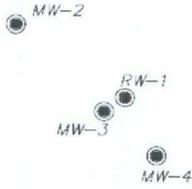


Sealing the well with bentonite



Concreting the well in

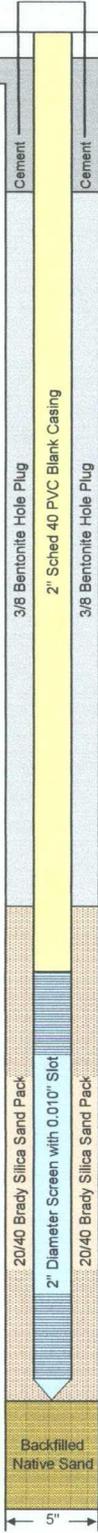
LITHOLOGIC LOG AND MONITORING WELL CONSTRUCTION DIAGRAM



MONITORING WELL NO.: MW-4 TOTAL DEPTH: 61 Feet
 SITE NAME: BD Santa Rita EOL Release Site CLIENT: RICE Operating Company
 CONTRACTOR: Harrison & Cooper, Inc. COUNTY: Lea
 DRILLING METHOD: Air Rotary STATE: New Mexico
 START DATE: 06/16/09 LOCATION: T22S-R37E-Sec 27 - Unit A
 COMPLETION DATE: 06/16/09 FIELD REP.: G. Van Deventer

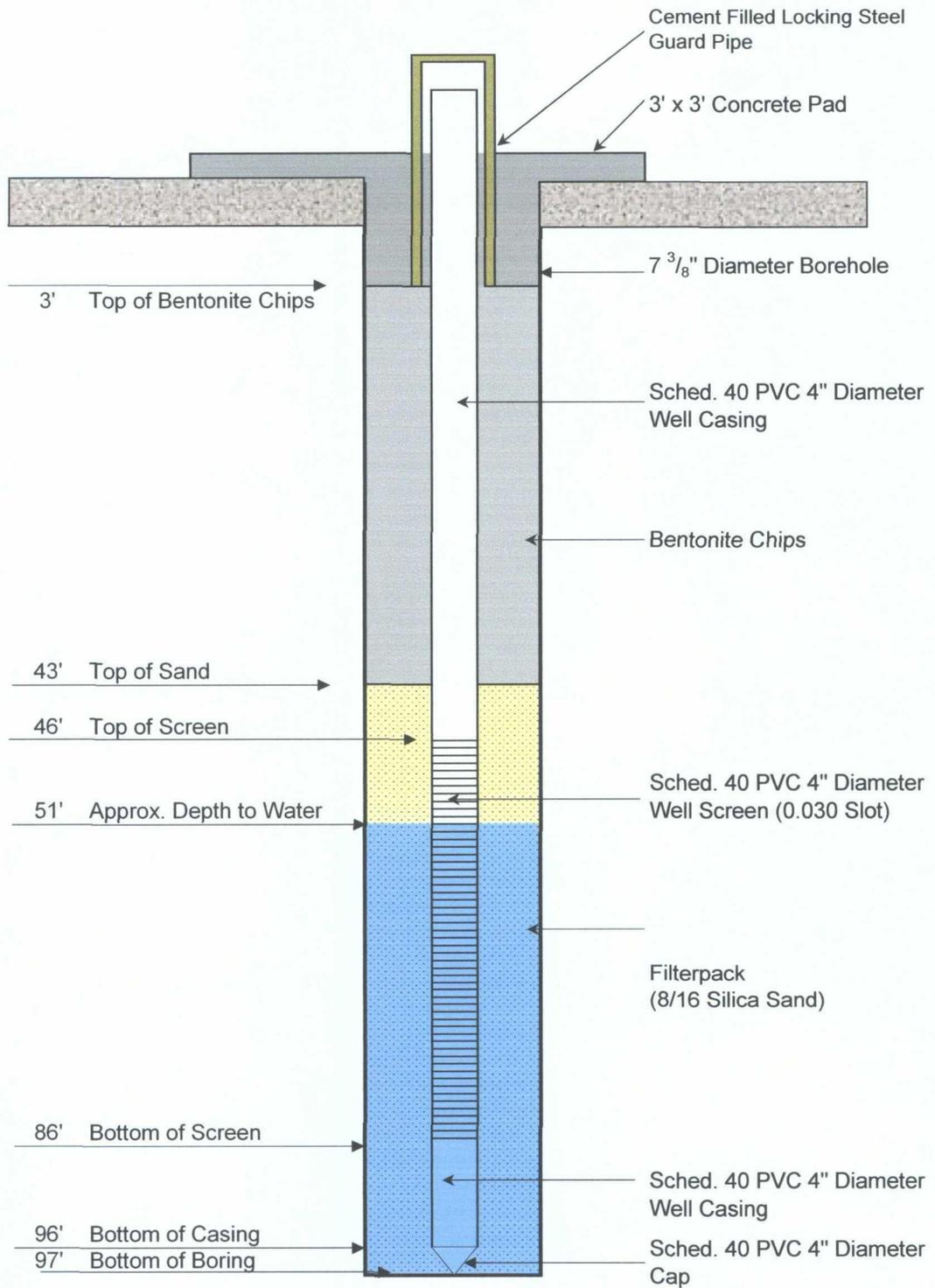
COMMENTS: Located approximately 73 feet southeast of MW-3. Hydrocarbons are not a constituent of concern therefore, cutting samples were collected and no PID readings taken.

Depth (ft)	Time	Type	Chloride (ppm)	PID (ppm)	USCS	LITHOLOGIC DESCRIPTION:
						LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION, DISTINGUISHING FEATURES
1145		Surface				Fine- to medium-grained sand (loamy dune sand), light brown (5YR 5/6), well sorted, subrounded grains, dry.
5	1149	Cuttings	138		SW	
10	1150	Cuttings	175		SM/CAL	Very fine- and fine-grained sand, medium orange pink (5YR 8/4) with very pale orange (10YR 8/4) calcium carbonate content in matrix. Sand grains are subrounded and moderately sorted, loose, dry.
15	1151	Cuttings	114			Very fine- and fine-grained sand, medium orange pink (5YR 8/4) with intermittent, moderately hard streaks of caliche. Sand grains are subrounded and moderately sorted, loose, dry.
20	1152	Cuttings	117			Very fine- and fine-grained sand, medium orange pink (5YR 8/4) with intermittent, moderately hard streaks of caliche. Sand grains are subrounded and moderately sorted, loose, dry.
25	1158	Cuttings	86			Very fine- and fine-grained sand, medium orange pink (5YR 8/4) with intermittent, moderately hard streaks of caliche. Sand grains are subrounded and moderately sorted, loose, dry.
30	1200	Cuttings	138		SW	Fine-grained sand, light brown (5YR 6/4) with intermittent sandstone streaks.
35	1210	Cuttings	91		SS	Hard sandstone and chert, pale reddish brown (10R 5/4) and grayish red (10R 4/2).
40	1214	Cuttings	118		SM/CL	Clayey silty fine sand; moderate reddish brown (10R 4/6)
45	1220	Cuttings	90			Clayey silty fine sand; moderate reddish brown (10R 4/6)
50	1240	Cuttings	176		SW/GP	Medium- and coarse-grained sand with some pea size gravel, moderate (reddish) brown (5YR 4/4), moderately well sorted, subrounded grains, moderately hard. Groundwater encountered at approximately 51 feet below ground surface.
55	1242	Cuttings				Medium- and coarse-grained sand with some pea size gravel, moderate (reddish) brown (5YR 4/4), moderately well sorted, subrounded grains, moderately hard.
60	1245	Cuttings				Medium- and coarse-grained sand with some pea size gravel, moderate (reddish) brown (5YR 4/4), moderately well sorted, subrounded grains, moderately hard.
65	1250	Cuttings				Medium- and coarse-grained sand with some pea size gravel, moderate (reddish) brown (5YR 4/4), moderately well sorted, subrounded grains, moderately hard.
						Total depth of boring reached at 66 ft bgs (5 ft of native sand backfill caved in prior to setting screen and casing).
70						



RECOVERY WELL (RW-1) CONSTRUCTION DIAGRAM

(Not to Scale)

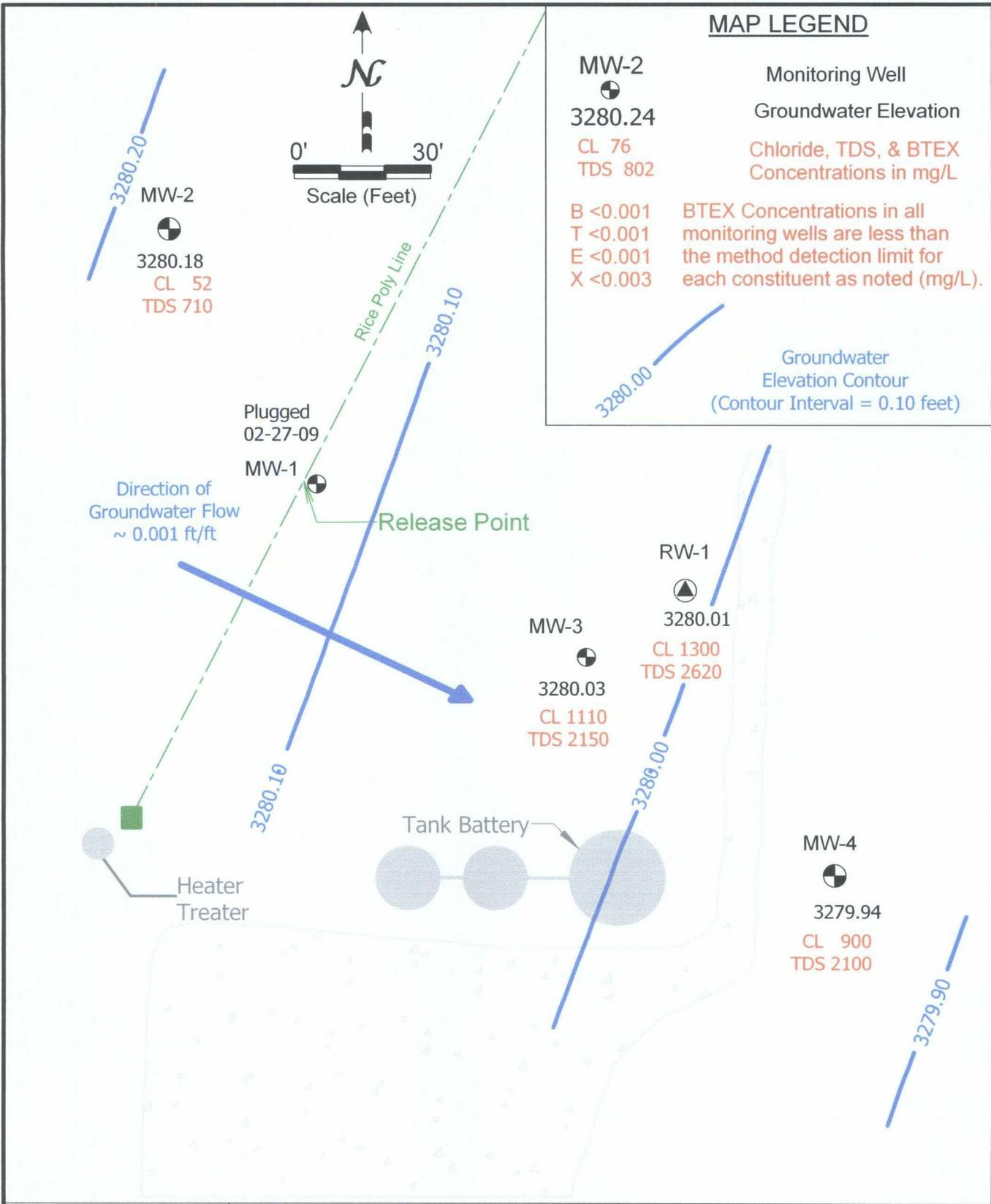


Client:	Rice Operating Company
Site Name:	BD Santa Rita Site (AP-58)
Completion Date:	June 17, 2009
On Site Geologist:	Gil Van Deventer

Recovery Well (RW-1)
Construction Diagram

MAP LEGEND

- MW-2  Monitoring Well
- 3280.24  Groundwater Elevation
- CL 76 Chloride, TDS, & BTEX Concentrations in mg/L
- TDS 802
- B <0.001 BTEX Concentrations in all monitoring wells are less than the method detection limit for each constituent as noted (mg/L).
- T <0.001
- E <0.001
- X <0.003
-  Groundwater Elevation Contour (Contour Interval = 0.10 feet)



BD Santa Rita EOL Release Site
 T22S - R37E - Section 27, Unit A
RICE Operating Company

Water Table Elevation and
 Chloride, TDS, & BTEX
 Concentration Map
 April 9, 2010



ARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
112 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 04/12/10
Reporting Date: 04/14/10
Project Number: NOT GIVEN
Project Name: BD SANTA RITA LEAK
Project Location: T22S R37E SEC27 A ~ LEA COUNTY, NM

Sampling Date: 04/09/10
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: JH
Analyzed By: CK/HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	SO ₄ (mg/L)	TDS (mg/L)
Analysis Date:		04/14/10	04/14/10	04/13/10
H19647-1	MONITOR WELL #2	1,110	181	2,150
H19647-2	MONITOR WELL #3	52	250	710
H19647-3	MONITOR WELL #4	900	313	2,100
H19647-4	RECOVERY WELL #1	1,300	290	2,620
Quality Control		500	42.4	NR
True Value QC		500	40.0	NR
% Recovery		100	106	NR
Relative Percent Difference		< 0.1	9.1	2.8
METHOD: Standard Methods, EPA		4500-Cl B	375.4	160.1

Not accredited for Chloride, Sulfate and TDS.


Chemist


Date

H19647 RICE

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
112 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 04/12/10
Reporting Date: 04/15/10
Project Number: NOT GIVEN
Project Name: BD SANTA RITA LEAK
Project Location: T22S-R37E-SEC27 A~ LEA CO., NM

Sampling Date: 04/09/10
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: JH
Analyzed By: ZL

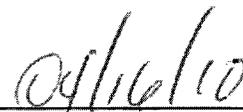
LAB NUMBE	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		04/14/10	04/14/10	04/14/10	04/14/10
H19647-1	MONITOR WELL # 2	<0.001	<0.001	<0.001	<0.003
H19647-2	MONITOR WELL # 3	<0.001	<0.001	<0.001	<0.003
H19647-3	MONITOR WELL # 4	<0.001	<0.001	<0.001	<0.003
H19647-4	RECOVERY WELL # 1	<0.001	<0.001	<0.001	<0.003
Quality Control		0.050	0.051	0.051	0.151
True Value QC		0.050	0.050	0.050	0.150
% Recovery		100	102	102	101
Relative Percent Difference		2.2	2.2	2.2	2.3

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.



Chemist



Date

