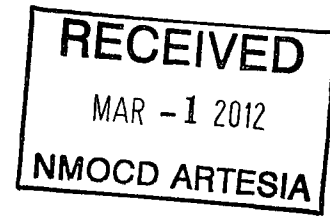




EXPLORING WHAT'S POSSIBLE



# APACHE CORPORATION

P.O.Box 1849  
Eunice, NM 88231  
Phone 575.394.3159

## Randy Federal Water Transfer Station

---

## Closure Report

API 30-015-30251

Release Date: June 28, 2011

Unit Letter H, Section 22, Township 17S, Range 30E

## Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

**September 29, 2011**

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First Street

Artesia, NM 88210

**RE: TERMINATION REQUEST**

**Apache – Randy Federal Water Transfer Station AD**

**UL/H sec. 22 T17S R30E**

Mr. Bratcher:

Apache Corporation has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the site referenced above.

### **Background and Previous Work**

The site is the result of an accidental discharge of produced water at the Apache Randy Federal Water Transfer Station when a swedge was severed from a transfer pump. The leak impacted the area within the bermed facility, and flowed onto the location caliche pad to the north and west of the bermed area. Also included is an area of light overspray to the north of the caliche pad. An initial form C-141 was submitted by Apache Corporation on June 28, 2011 (Appendix A). The site is located north of U.S. Highway 82 east of Loco Hills, NM in unit letter 'H', section 22, T17S, R30E in Eddy County, New Mexico.

On June 28, 2011, RECS personnel initiated work on the Randy Federal Water Transfer Station. Soil samples were collected throughout the surface of the impacted area and at depth at the South, West, Northeast, and Southeast sample points. All samples were field tested for chloride, and headspace measurements were taken in the field using a Photo Ionization Detector (PID) (Figure 1).

On June 29, 2011, the leak area within the firewall was excavated to 2 ft. below ground surface (bgs), and samples from the floor of the excavated area were field tested for chloride (Figure 1).

On July 11, 2011, a temporary monitor well was drilled northwest of the battery and leak area to determine depth of groundwater at the site. A red bed clay formation was encountered at 60 ft. bgs and drilling ceased at 100 ft. bgs. The temporary monitor well was set with 2 inch PVC casing with screen from 80 ft. to 100 ft. bgs to allow potential groundwater to accumulate. On July 14, 2011, RECS personnel used a Heron Water Level Meter to verify any accumulation of groundwater. No water was detected within the borehole at the total depth of 101 ft. bgs. RECS

personnel removed the monitoring well casing and plugged the borehole to ground surface with bentonite (Appendix B).

A total of 180 cubic yards of impacted soil was removed from the leak area and transported to a NMOCD approved facility for disposal. The excavation was backfilled with 212 cubic yards of clean imported caliche and contoured to the battery floor and well pad surface.

### **Containment System Construction and Vertical Soil Sampling**

Apache began constructing a metal containment system to enclose the facility and the water tanks were moved 45 feet to the west. On October 20, 2011, RECS personnel obtained soil samples, by excavator, from verticals within the leak area at the former tank locations (Figure 2). The samples were field tested for chloride, and headspace measurements were taken in the field using a PID. All PID readings were low. Chloride in Vertical 1, 2, and 3 declined with depth, whereas chloride in Vertical 4 and 5 did not relent with depth. Construction of the metal containment system was completed and was surrounded on the north, south, and east sides by a secondary earthen containment berm.

### **Soil Bore Installation**

On December 14, 2011, 2 soil bores were drilled at the site to verify the vertical extent of impact. SB1 was placed south of the facility metal containment and inside the perimeter of the outer soil berm. SB2 was placed west of the facility enclosure in the central area of impact that occurred outside of the facility (Figure 3). Accessibility was the primary factor in determining the placement of the soil bores as the facility is bordered by a buried pipeline to the north along with a concentration of surface flow lines. The east wall of the facility enclosure is closely bordered by the soil berm with pasture beyond and is inaccessible to a drilling rig.

During drilling, soil samples were collected from the soil bore positions at surface and at 5 foot intervals until terminus. The samples were field tested for chloride, and headspace measurements were taken in the field using a PID. The surface and bottom-most samples from each soil bore were submitted to a laboratory for chloride and TPH (GRO/DRO) analyses (Appendix D). In all samples, TPH was non-detect. In SB1, chloride was 3,080 ppm (parts per million or mg/kg) at surface and 96 ppm at 30 ft bgs. In SB2, chloride was 9,800 ppm at surface and 80 ppm at 15 ft bgs.

### **Additional Point Sampling**

Point samples were also collected at surface and 6 inches bgs within the leak overspray area north of the caliche pad, among the concentration of surface flow lines (Figure 4). The samples were field tested for chloride, and headspace measurements were taken in the field using a PID. Field chloride and headspace measurements were low, and the samples were submitted to a laboratory for chloride and TPH (GRO/DRO) analyses (Appendix D). Chloride was low and TPH was non-detect in all samples.

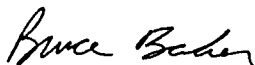
See Appendix C for photographs.

## Conclusion

Due to the nonexistence of groundwater and the general decline of chloride with depth remaining in the soils, Apache submits the final C-141 (Appendix E) and respectfully requests the closure of the regulatory file for this site.

Apache Corporation appreciates the opportunity to work with you on this project. Please call Natalie Gladden (575) 390-4186 if you have any questions or comments.

Sincerely,



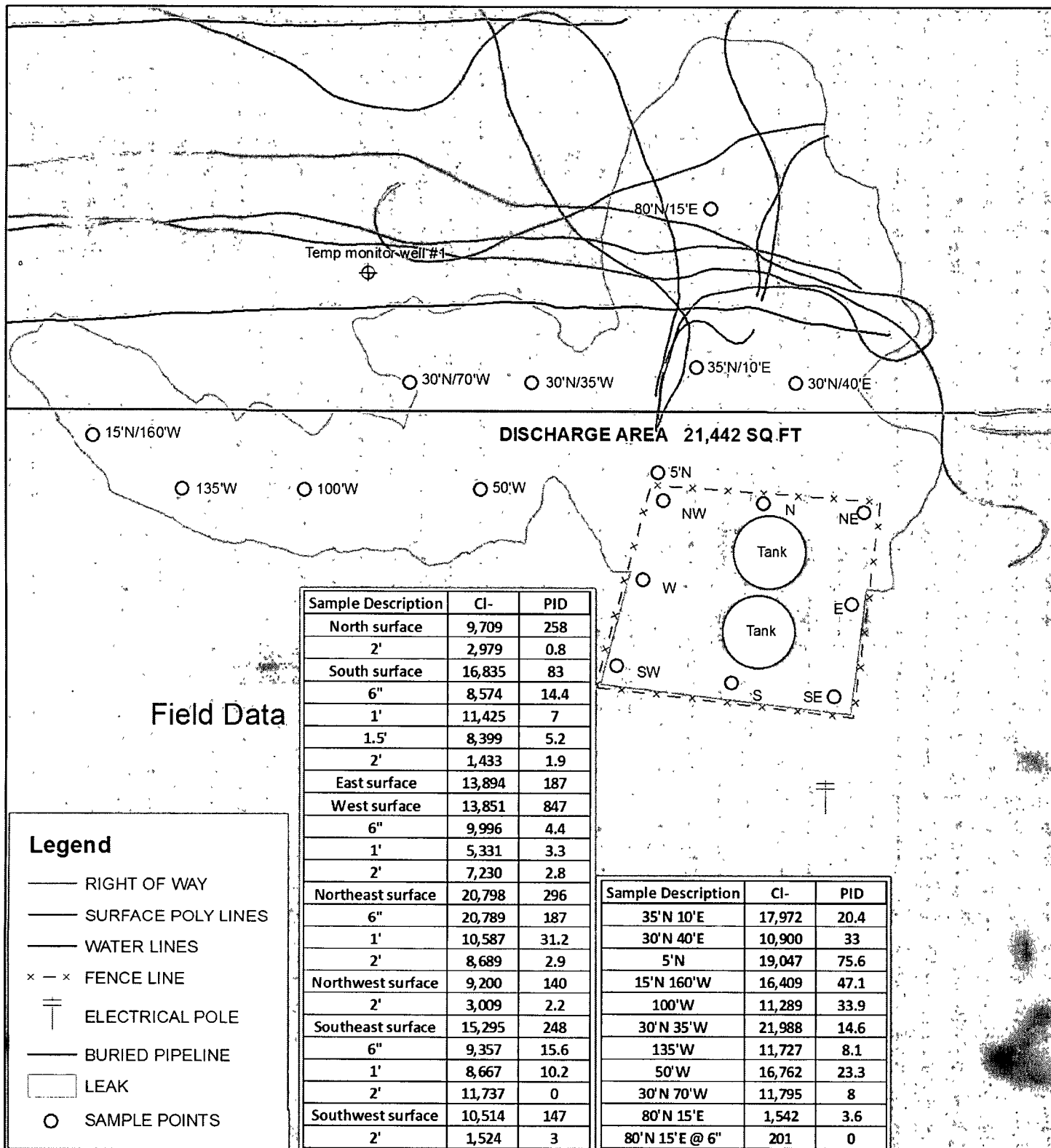
Bruce Baker  
Head Foreman  
RECS  
(575) 631-5157

## Attachments:

- Figure 1: Site Plat with Initial Sample Summary
- Figure 2: Site Plat with Vertical Sample Summary
- Figure 3: Site Plat with Soil Bore Installation
- Figure 4: Site Plat with North Point Sample Summary
- Appendix A: Initial Form C-141
- Appendix B: Temporary Monitoring Well Log, Letter of Groundwater Verification, and Plugging Report
- Appendix C: Site Photographs
- Appendix D: Laboratory Results
- Appendix E: Final Form C-141

# Figures

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 5630 Hobbs, NM 88241  
Phone 575.393.4411 Fax 575.393.0293



## APACHE RANDY FEDERAL TANK BATTERY AD

DATE: 6/30/11

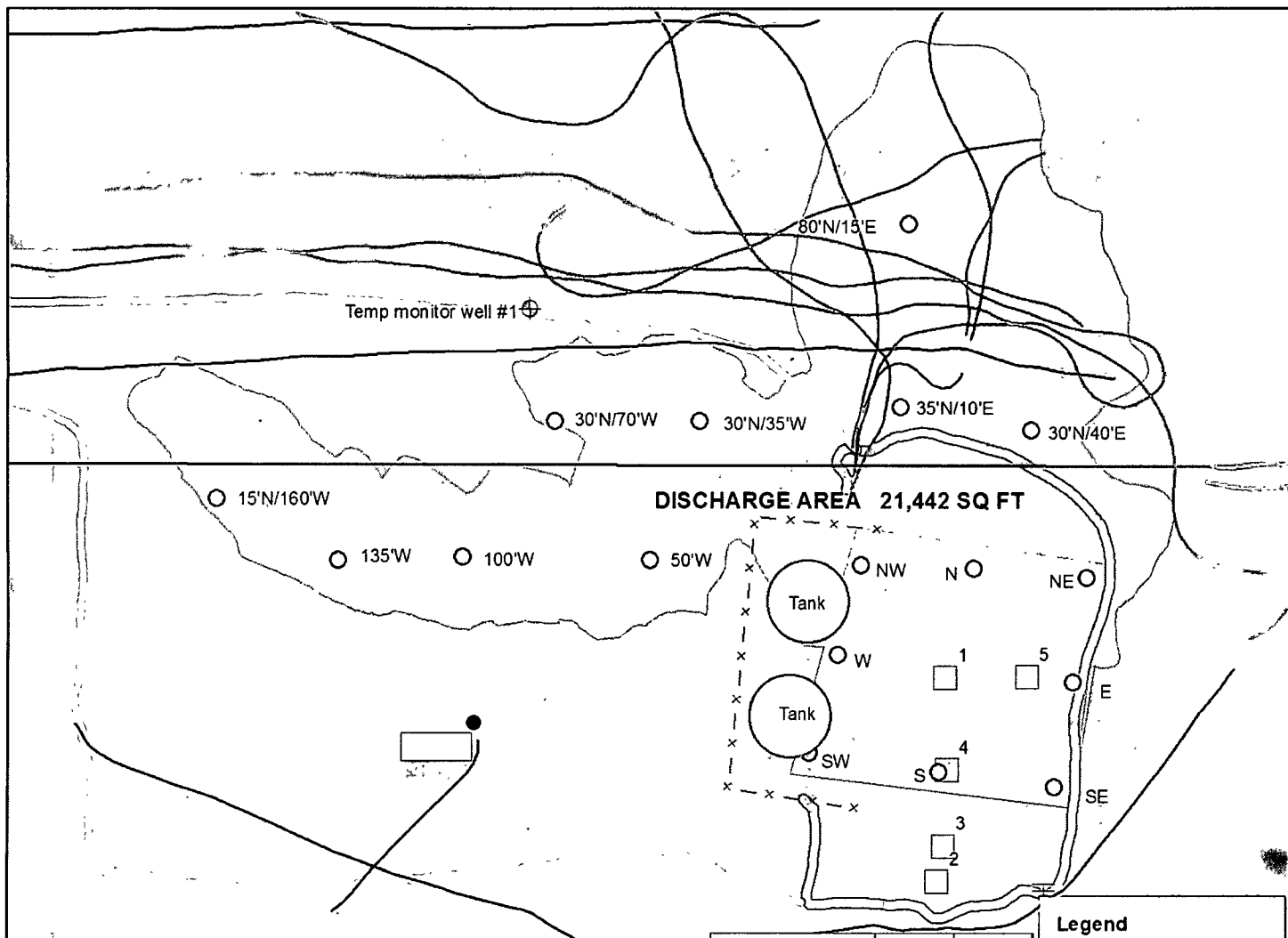
UL/H SEC 22  
T-17-S R-30-E

Figure 1



0 15 30 60  
Feet

GPS date: 6/30/11 KYLE NORMAN  
Drawing date: 7/13/11  
Drafted by: L. Weinheimer



## Field Data

Vertical 1 Sample Description	Cl-	PID
Surface	6,819	4
1'	3,669	2.9
2'	2,368	0.9
3'	2,273	1.3
4'	1,693	3.7
7'	2,212	2.5
13'	1,760	2.4
15'	1,666	2
16'	965	0.5

Vertical 2 Sample Description	Cl-	PID
2'	860	0.3
4'	2,293	0.8
6'	282	2
7'	204	0.7
8'	284	0.8
9'	291	1.1

Vertical 3 Sample Description	Cl-	PID
2'	860	0.3
4'	2,293	0.8
6'	282	2
7'	204	0.7
8'	284	0.8
9'	291	1.1
14'	191	0.8
15'	177	0.7

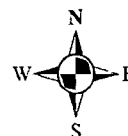
Vertical 4 Sample Description	Cl-	PID
6'	622	1.6
8'	942	1.8
10'	937	1
12'	957	0.8
14'	972	0.9

Vertical 5 Sample Description	Cl-	PID
2'	16,729	0.8
4'	9,428	0.5
6'	14,028	0.8
8'	9,393	0.9
10'	7,521	0.7
12'	6,002	0.9
14'	5,646	0.8
16'	7,770	1.1
18'	7,336	0.9
20'	8,138	0.5

## Legend

- RIGHT OF WAY
- SURFACE POLY LINES
- WATER LINES
- BURIED PIPELINE
- WELLHEAD
- x — BATTERY FENCE
- ⊥ ELECTRICAL POLE
- PUMPJACK BASE
- SURFACE POLY LINE
- WATER LINE
- PAD
- BERM
- LEAK (4,279 sq ft)
- LEAK
- VERTICALS
- SAMPLE POINTS

## Figure 2



0 30 60  
Feet

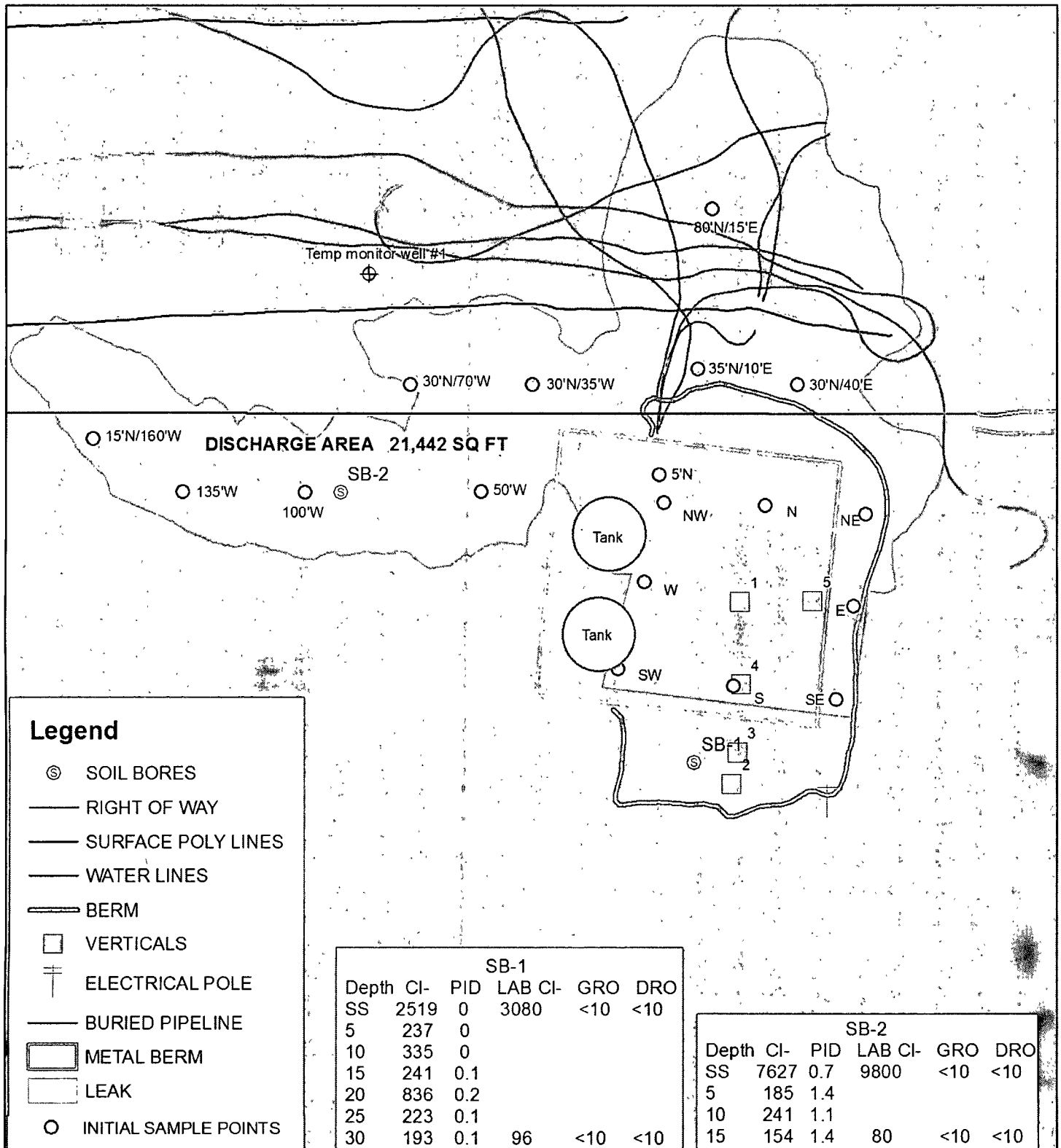
GPS date: 6/30/11 KN & 10/21/11 RP  
Drawing date: 11/16/11  
Drafted by: L. Weinheimer



## APACHE RANDY FEDERAL TANK BATTERY AD

UL/H SEC 22  
T-17-S R-30-E

# Soil Bore Installation

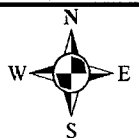


**APACHE RANDY FEDERAL  
TANK BATTERY AD**

**DATE: 12/14/11**

**UL/H SEC 22  
T-17-S R-30-E**

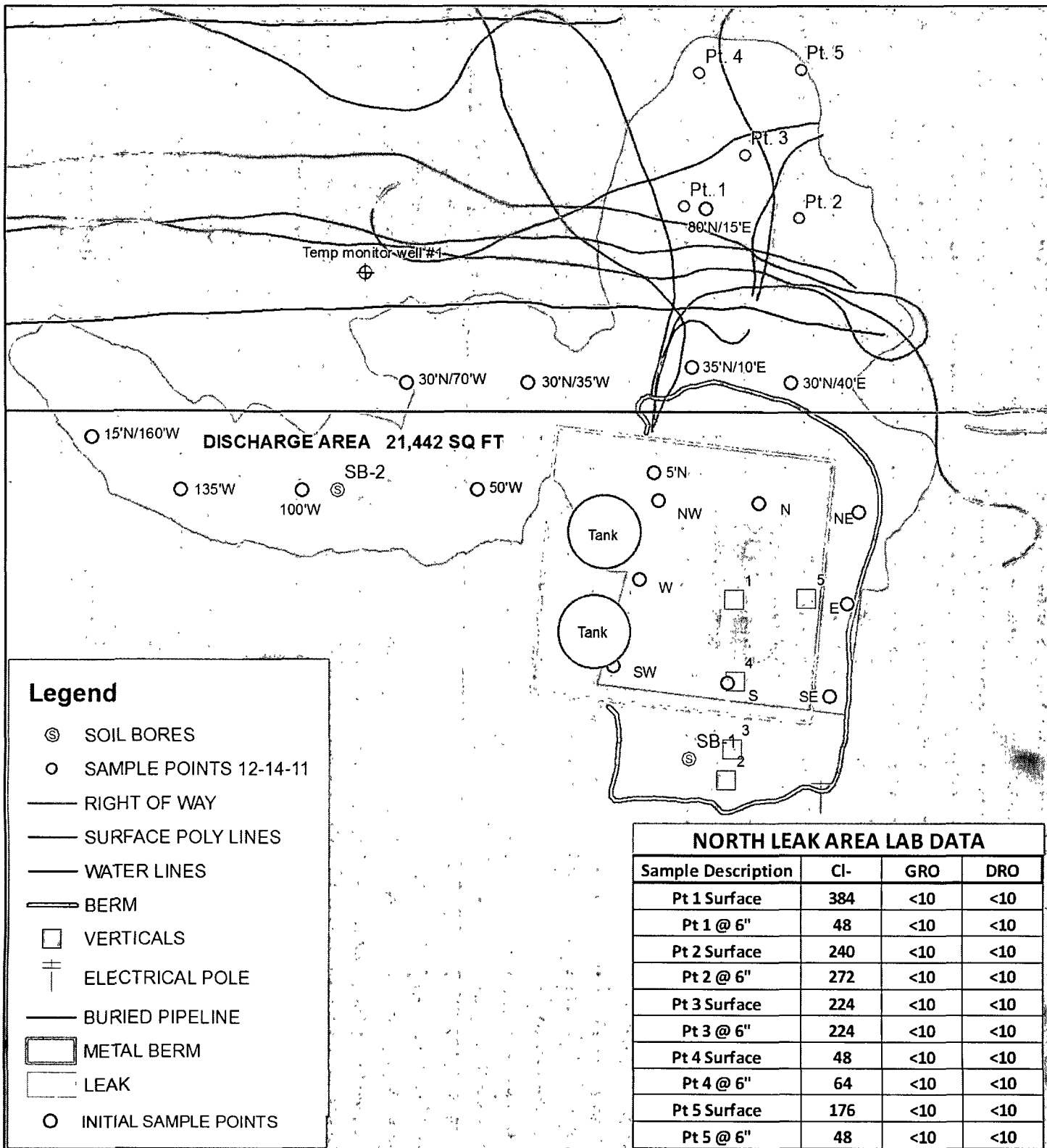
**Figure 3**



0 15 30 60  
Feet

GPS date: 6/30/11 KN, 11/30/11 DH,  
12/14/11 KN  
Drawing date: 12/15/11  
Drafted by: L Weinheimer





## APACHE RANDY FEDERAL TANK BATTERY AD

DATE: 12/14/11

UL/H SEC 22  
T-17-S R-30-E

Figure 4



0 15 30 60  
Feet

GPS date: 6/30/11 KN, 11/30/11 DH,  
12/14/11 KN  
Drawing date: 12/15/11  
Drafted by: L. Weinheimer

# Appendix A

Initial Form C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 5630 Hobbs, NM 88241  
Phone 575.393.4411 Fax 575.393.0293

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address PO Box 1849 Eunice NM 88231	Telephone No. 575-390-4186
Facility Name Randy Federal Transfer Station (nearest well Randy Federal #4)	Facility Type Water Station

Surface Owner BLM	Mineral Owner State	Lease No. 30-015-30251
-------------------	---------------------	------------------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	22	17S	30E	1650'	FNL	330'	FEL	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

#### NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 180	Volume Recovered 160
Source of Release 2x1 swedge	Date and Hour of Occurrence 06/28/11	Date and Hour of Discovery 06/28/11 7am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Randy Dade and Mike Bratcher, as well as Justin with BLM	
By Whom? Natalie Gladden	Date and Hour 942am 06/28/11	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*


Describe Cause of Problem and Remedial Action Taken.\*

2x1 swedge on transfer pump busted releasing 180bbls of produced water and recovering 160bbls of produced water. The fluid was released both inside the bermed area as well as on the well pad for the Randy Federal #4. The swedge was replaced immediately.

Describe Area Affected and Cleanup Action Taken.\*

Inside the berm and on the location pad will be remediated according to the NMOCD Guidelines to closure. There is no water wells with in a six mile radius. We have data that 2 miles west of this facility that we do not have water as well; refer to the Red Water Station release

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Natalie Gladden	Approved by District Supervisor:	
Title: EHS Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 06/28/11 Phone: 575-390-4186		

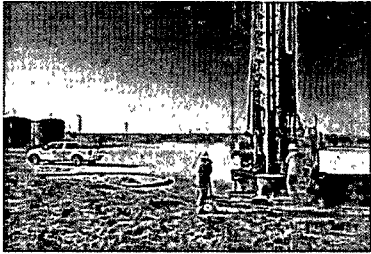

\* Attach Additional Sheets If Necessary


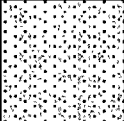
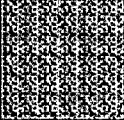
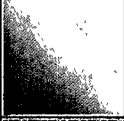
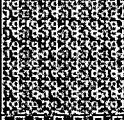

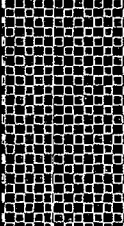
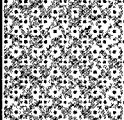
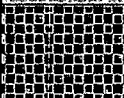
# Appendix B

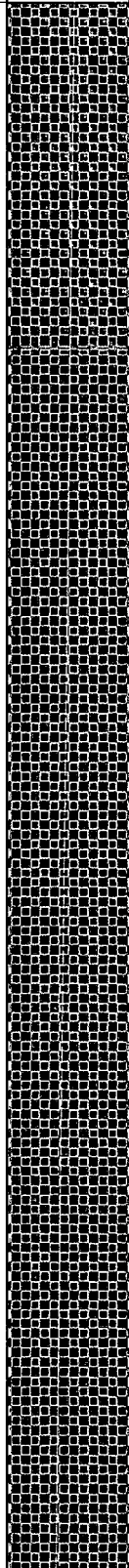


Temporary Monitoring Well and Soil Bore Logs,  
Letter of Groundwater Verification, and Plugging Report

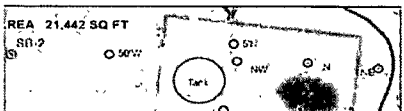

**RICE Environmental Consulting and Safety (RECS)**



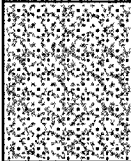

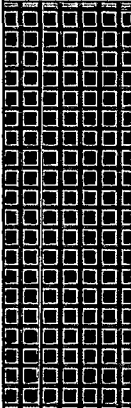

P.O. Box 5630 Hobbs, NM 88241  
Phone 575.393.4411 Fax 575.393.0293

Logger:	Jordan Woodfin			
Driller:	Harrison & Cooper, Inc			
Drilling Method:	Air rotary		Company: Apache Corporation	
Start Date:	7/11/2011		Project Name: Well ID:	
End Date:	7/11/2011		Randy Federal Water Station Temp MW-1	
Comments:			Project Consultant: RECS	
Samples taken for lithology only while this bore was being installed. <b>Temp. MW PLUGGED 7-15-2011</b> DRAFTED BY: L. Weinheimer TD = 100 ft GW = none			Location: UL/H sec. 22 T17S R30E Lat: 32°49'22.837"N County: Eddy Long: 103°57'8.044"W State: NM	

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction		
				Tan fine sand with small caliche fragments		2" PVC		
5 ft								
				Light red fine sand with caliche fragments				
10 ft								
				Red very fine sand with small caliche fragments				
15 ft								
				White to red very fine silty sand with caliche				
20 ft								
				Red very fine silty sand with small caliche fragments				
25 ft								
				Red very fine silty sand with some consolidated clay				
30 ft								
				Reddish brown very fine sandy clay				
35 ft								
				Light brown very fine sand				
40 ft								
								
45 ft								

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction		
50 ft				Reddish brown very fine sandy clay				annular space left open  TEMP MW-1 PLUGGED 7/15/2011
55 ft								
60 ft								
				Brownish red very fine silty clay				
65 ft								
70 ft								
75 ft								
80 ft								
85 ft								
90 ft								
95 ft								
100 ft								

<b>Logger:</b> Kyle Norman <b>Driller:</b> Harrison & Cooper, Inc <b>Drilling Method:</b> Air rotary <b>Start Date:</b> 12/14/2011 <b>End Date:</b> 12/14/2011 <b>Comments:</b> All samples were from cuttings.		
<b>DRAFTED BY:</b> L. Weinheimer TD = 15 ft      GW = none	<b>Company:</b> Apache Corporation <b>Project Name:</b> Randy Federal Tank Battery <b>Project Consultant:</b> RECS <b>Location:</b> UL/H sec. 22 T17S R30E	<b>Well ID:</b> SB-2 <b>Lat:</b> 32°49'22.234"N <b>Long:</b> 103°57'8.138"W <b>County:</b> Eddy <b>State:</b> NM

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Red Sand		
SS	7627	CI-9800	0.7	Tan/Red Sand		
		GRO <10				
		DRO <10				
5 ft	185		1.4	Red Sandy Clay		
10 ft	241		1.1			
15 ft	154	CI-80	1.4			
		GRO <10				
		DRO <10				

# Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

July 14<sup>th</sup>, 2011

Natalie Gladden

Apache Corp.

P.O. Box 1849

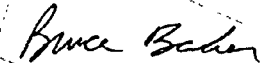
Eunice, New Mexico 88231

## **Re: Apache Randy Federal Water Station**

Ms. Gladden,

On July 11<sup>th</sup>, 2011, RECS personnel drilled an observational well at the Apache Randy Federal Water Station (UL/H sec. 22 T17S R30E). On July 14<sup>th</sup>, I supervised RECS personnel checking for water accumulation within the borehole using a Heron depth to water meter. The meter indicated no water had accumulated within the borehole at the total depth of 101ft.

Sincerely,



Bruce Baker

Head Foreman

Rice Environmental Consulting & Safety





P.O. Box 5630  
Hobbs, NM 88241  
Phone: 575-393-4411

## Monitor Well Plugging Report

Client	Apache Corp.
Contractor	RECS
Date Completed	7/14/2011
Site	Randy Federal Water Station
County	Eddy
Legal Description	UL/H sec. 22 T17S R22E
Well ID	Temp. MW-1
Casing Diameter	2"
Well Depth	100'
Casing Material	PVC
Plugging Material	Bentonite

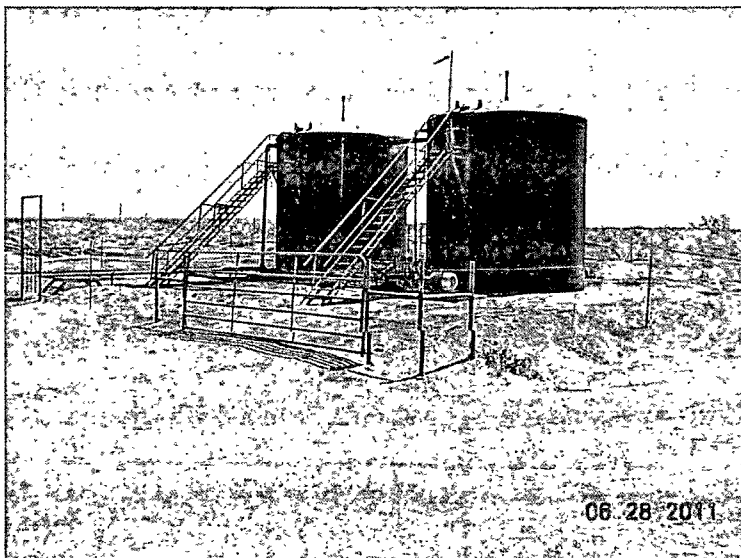
# Appendix C

## Site Photographs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 5630 Hobbs, NM 88241  
Phone 575.393.4411 Fax 575.393.0293

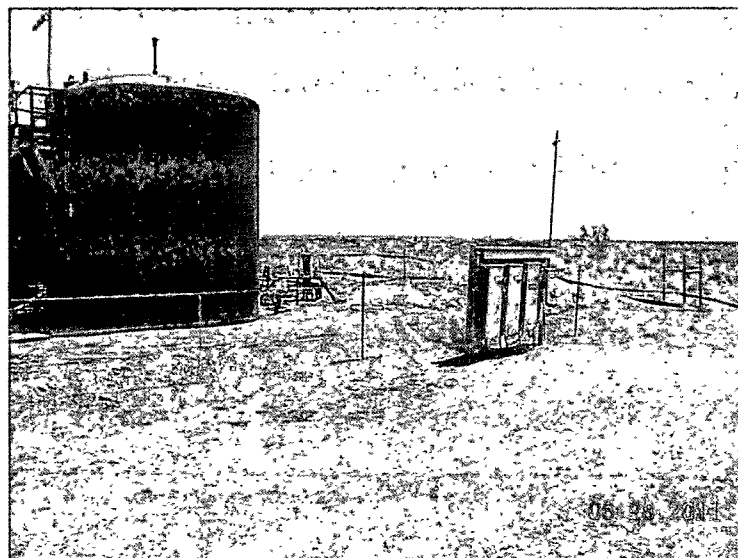
# Randy Federal Water Transfer Station

Unit H, Section 22, T17S, R30E



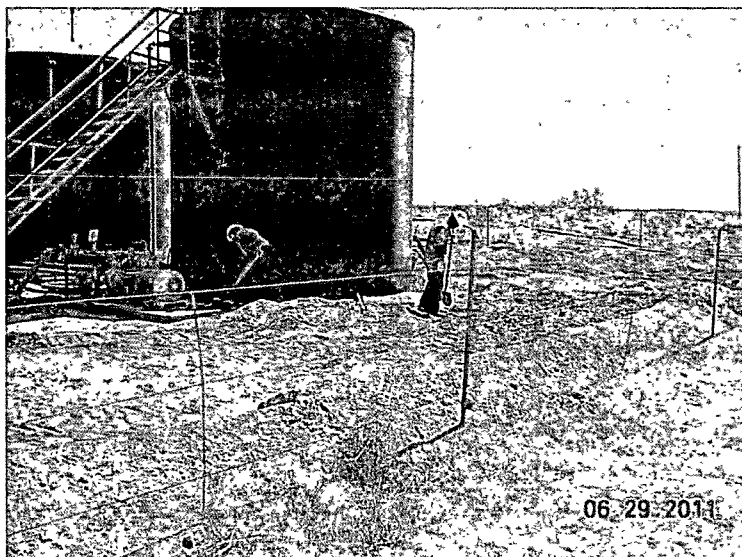
Impacted area, facing northeast

6/28/2011



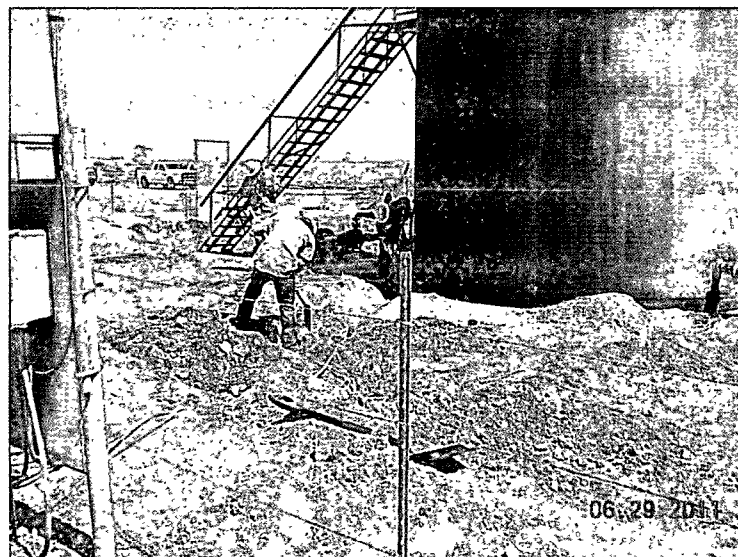
Impacted area, facing northeast

6/28/2011



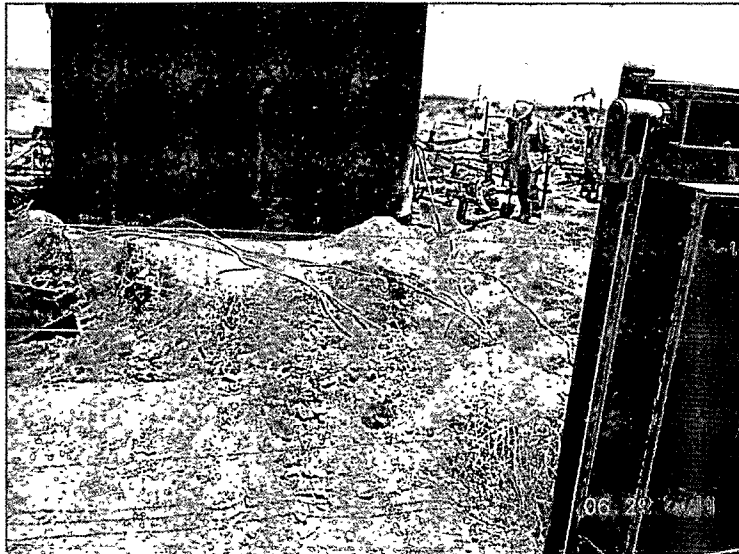
Spotting lines, facing northeast

6/29/2011



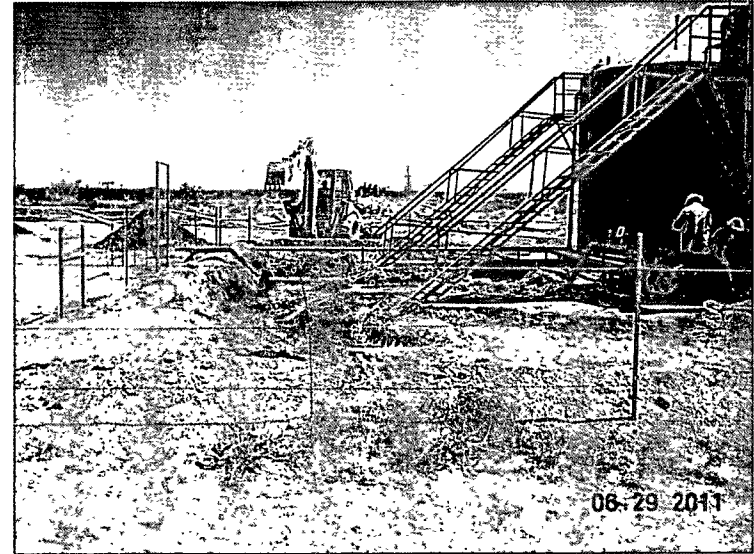
Spotting lines, facing northwest

6/29/2011



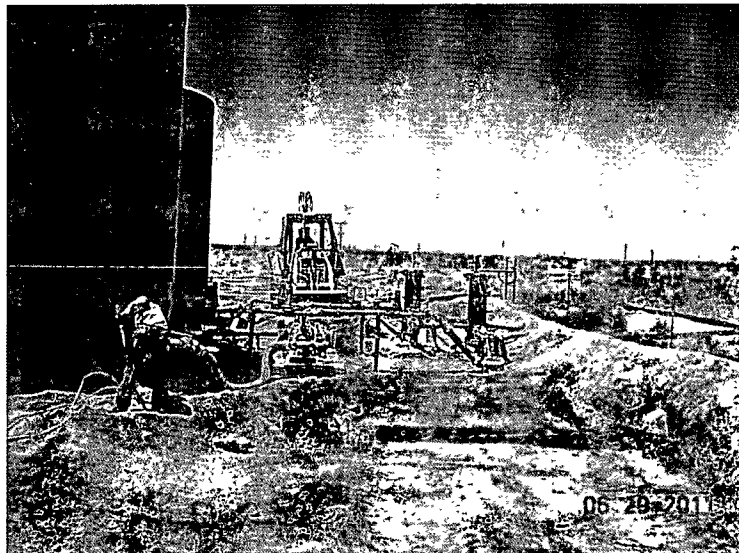
Spotting lines, facing northeast

6/29/2011



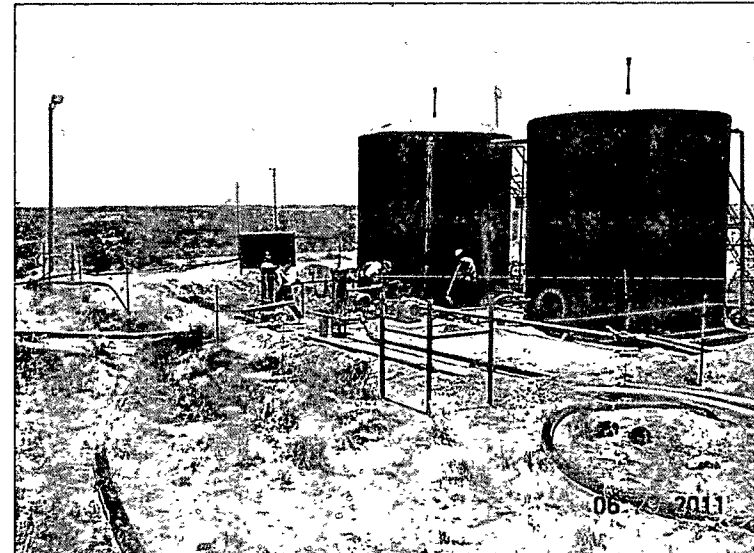
Excavating, facing north

6/29/2011



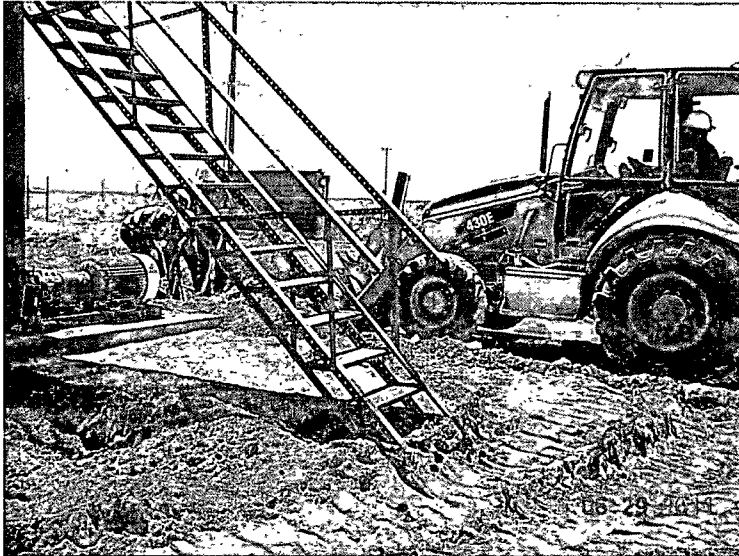
Excavating, facing north

6/29/2011



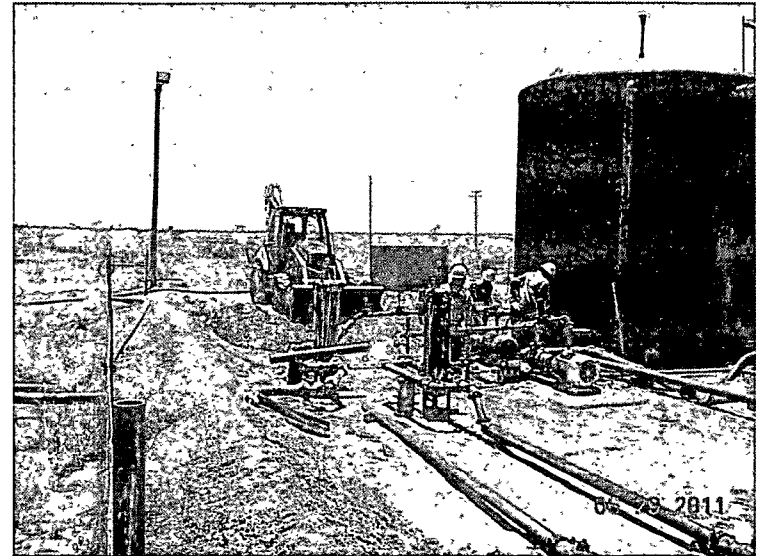
Shoveling near tanks, facing northwest

6/29/2011



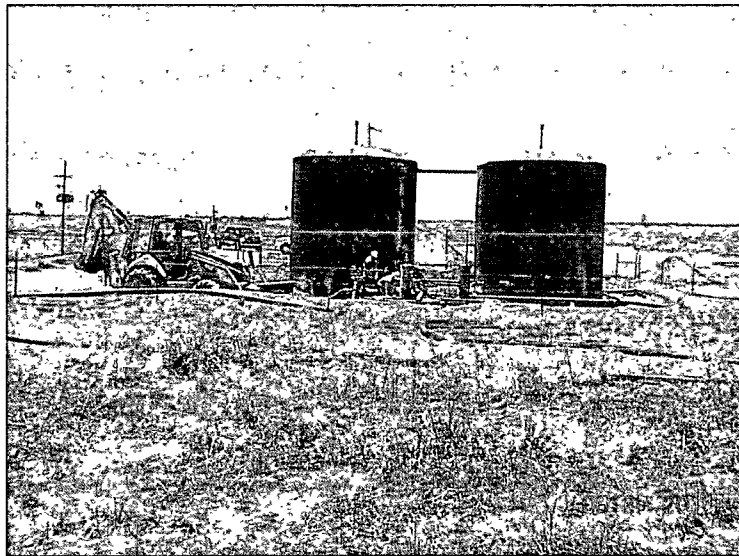
Excavating, facing south

6/29/2011



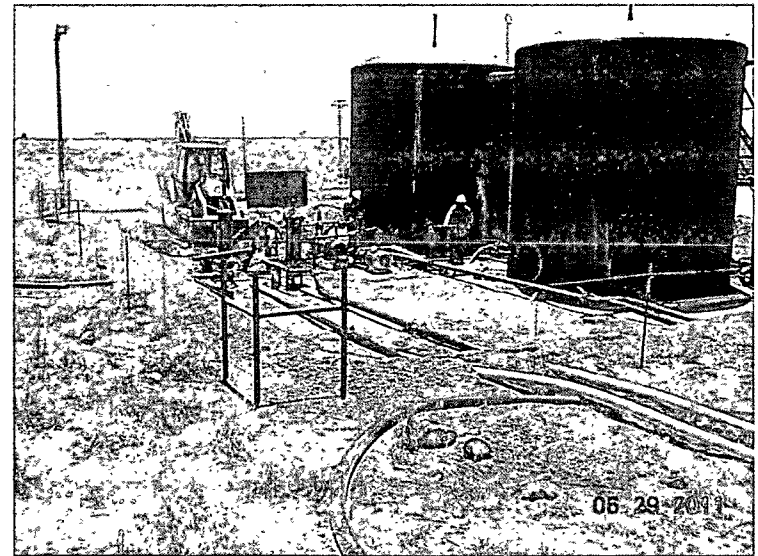
Excavating, facing south

6/29/2011



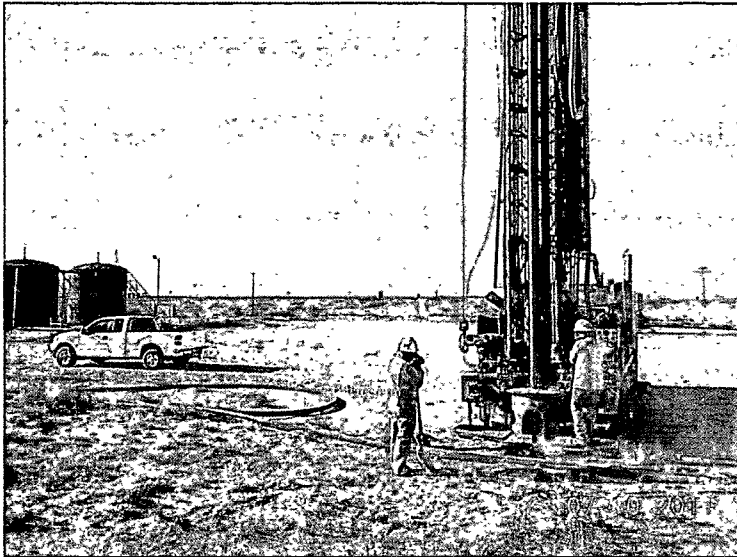
Excavating, facing west

6/29/2011



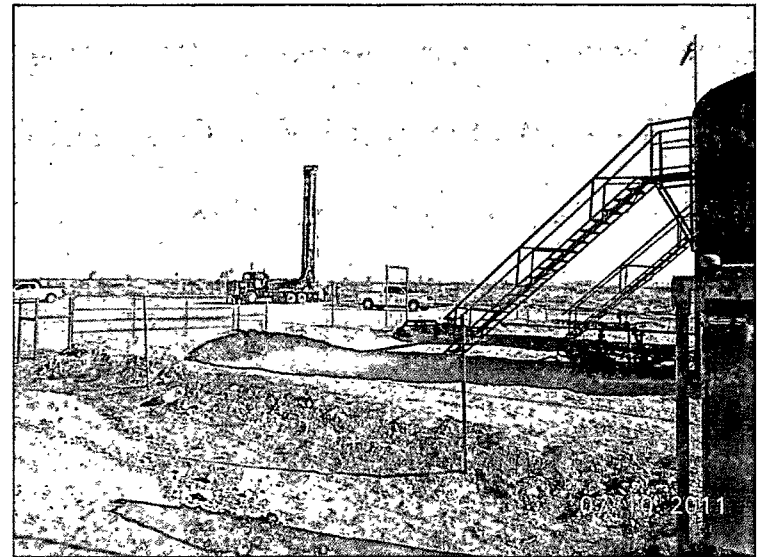
Excavating, facing southwest

6/29/2011



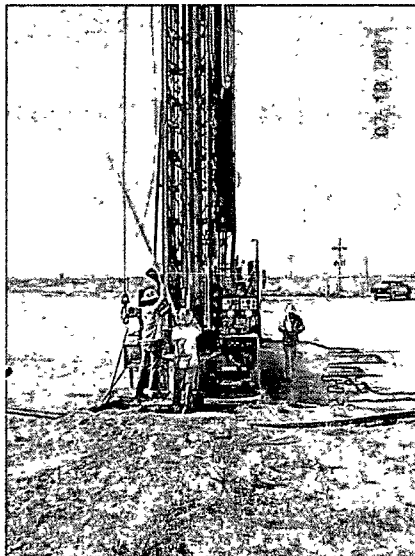
Drilling temporary MW, facing south

7/11/2011



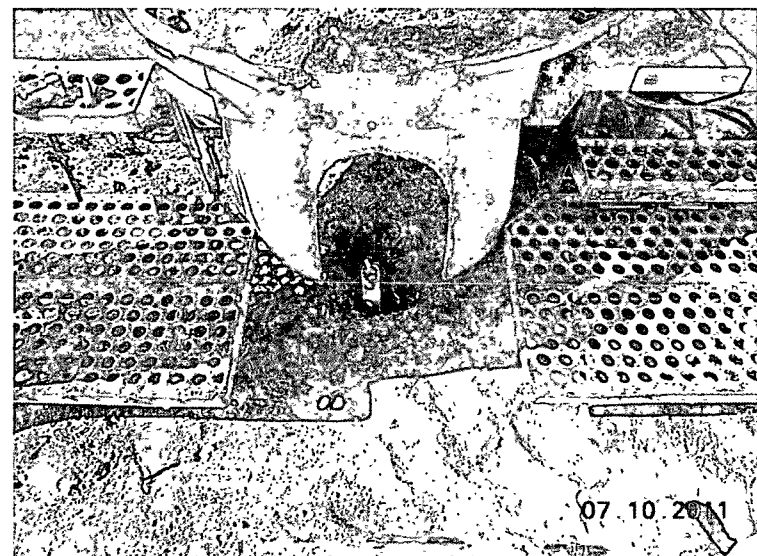
Drilling temporary MW, facing northwest

7/11/2011



Installing casing, facing south

7/11/2011



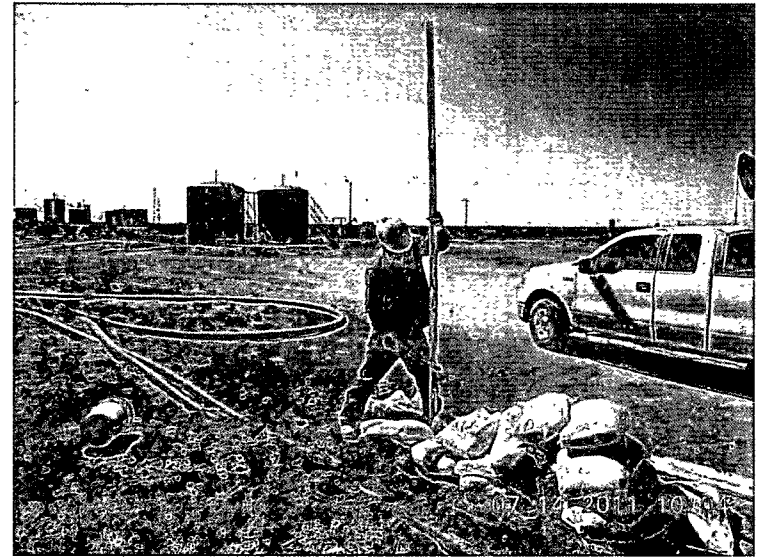
Casing set, facing south

7/11/2011





Checking water depth, facing southeast 7/14/2011



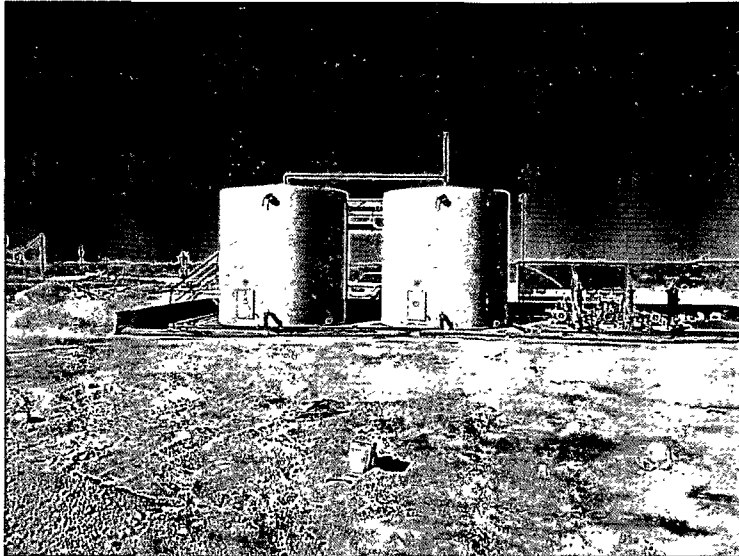
Removing casing, facing southeast 7/14/2011



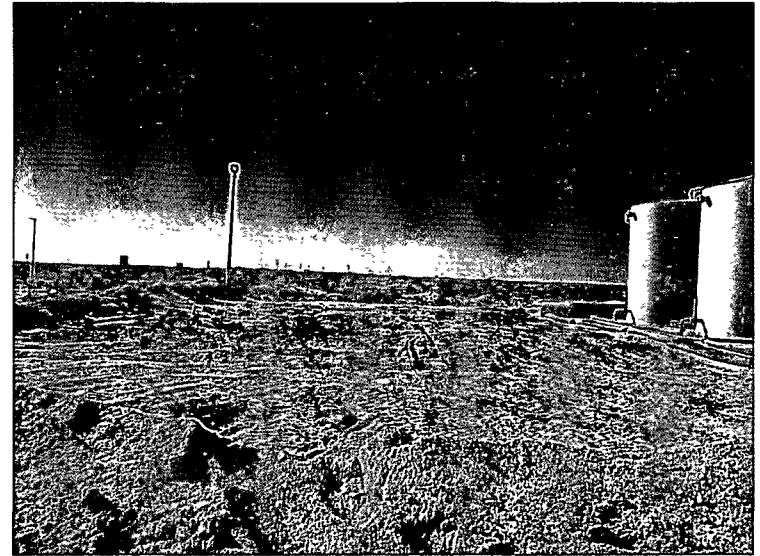
Plugging MW with bentonite, facing SE 7/14/2011



Temp MW plugged and staked, facing SE 7/14/2011



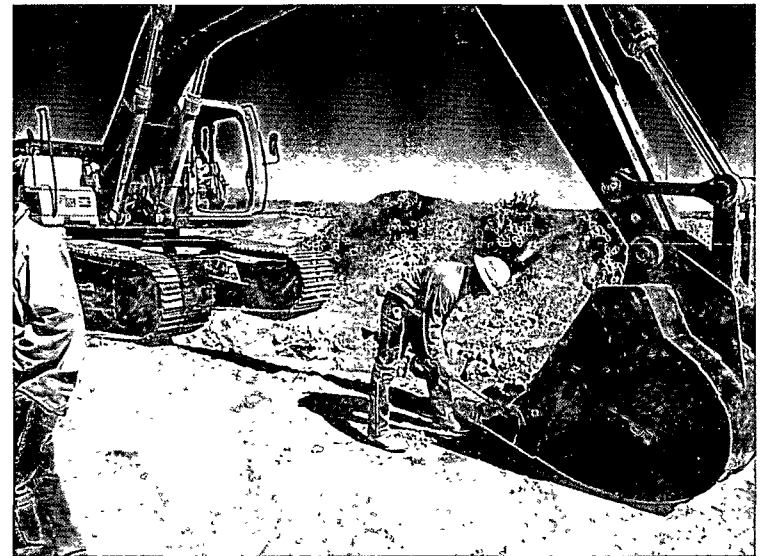
Containment construction, facing west 10/20/2011



Vertical sample area, facing southwest 10/20/2011

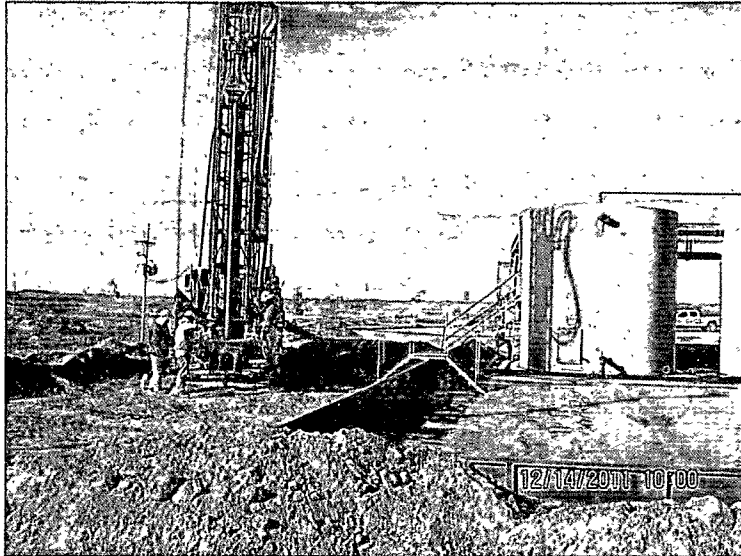


Excavating vertical, facing north 10/20/2011



Sampling vertical, facing east 10/20/2011





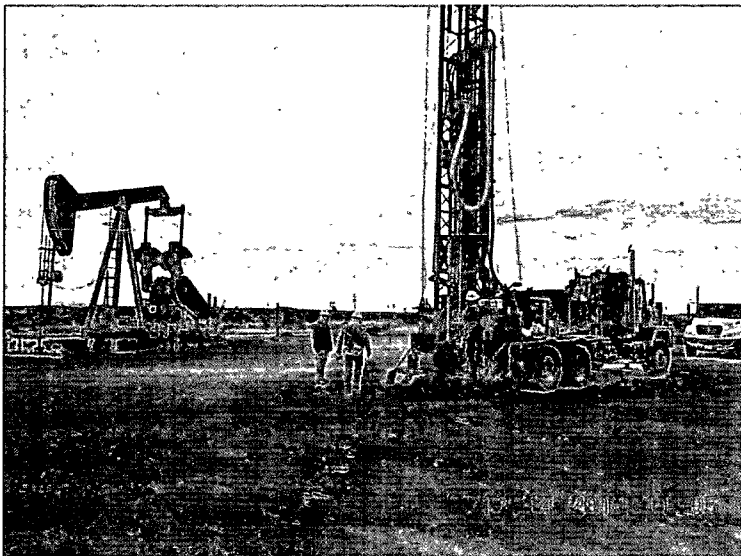
Drilling SB1, facing west

12/14/2011



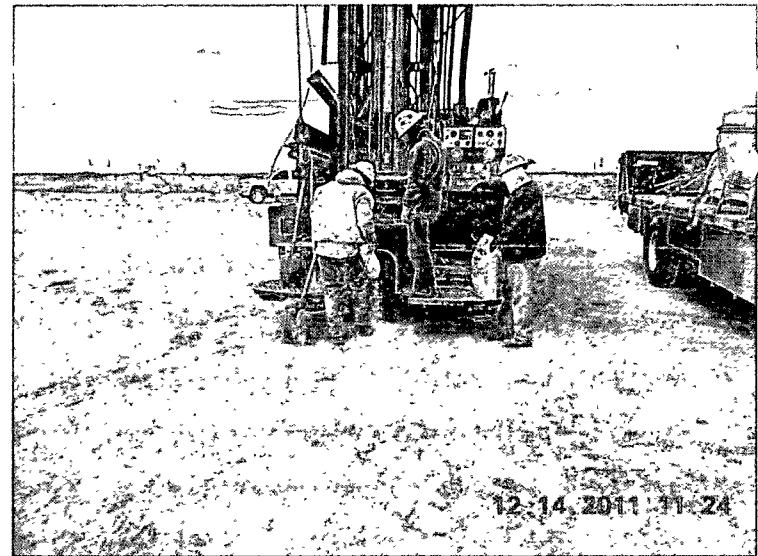
Plugging SB1 in total with bentonite

12/14/2011



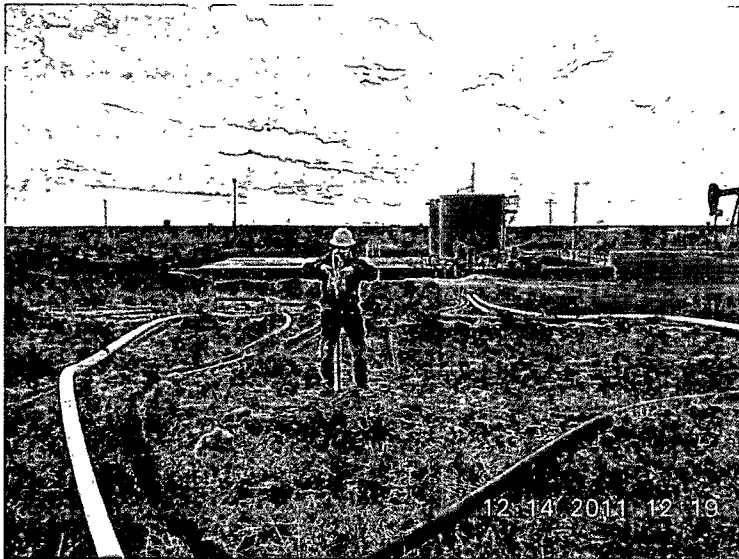
Drilling SB2, facing west

12/14/2011

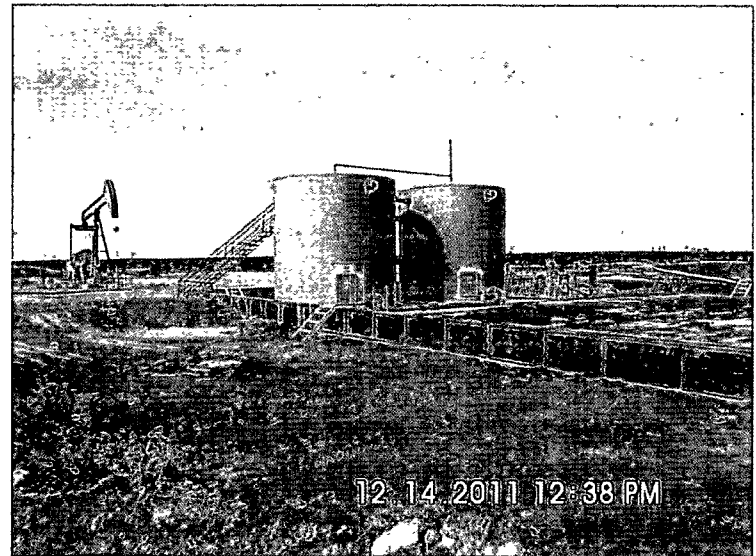


Plugging SB2 in total with bentonite

12/14/2011



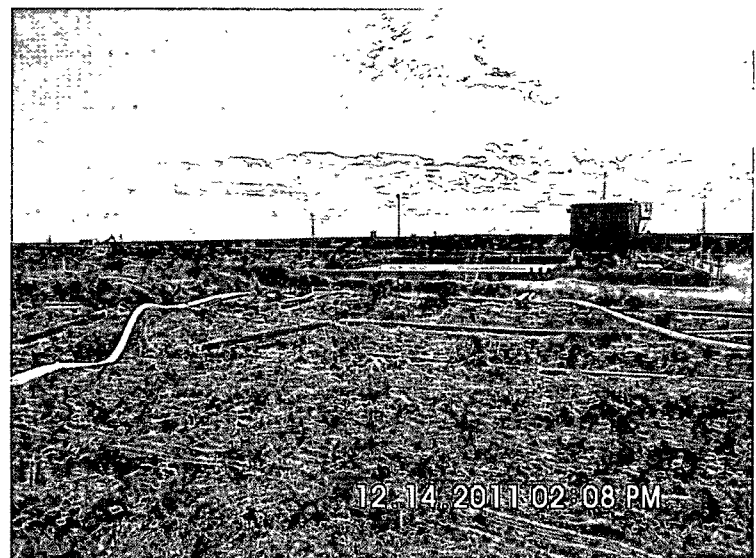
Sampling in north spray area, facing south 12/14/2011



South side of containment, facing northwest  
12/14/2011



North overspray area, facing south 12/14/2011



Site complete, facing south 12/14/2011

# Appendix D

## Laboratory Results

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 5630 Hobbs, NM 88241  
Phone 575.393.4411 Fax 575.393.0293

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

 Received: 12/14/2011  
 Reported: 12/19/2011  
 Project Name: RANDY FEDERAL TANK BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/14/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB #1 @ SURFACE (H102690-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	<10.0	10.0	12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane		67.1 %	55.5-154						
Surrogate 1-Chlorooctadecane		85.2 %	57.6-158						

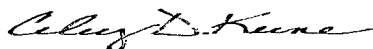
**Sample ID: SB #1 @ 30' (H102690-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	<10.0	10.0	12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane	71.2 %	55.5-154							
Surrogate 1-Chlorooctadecane	81.8 %	57.6-158							

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

APACHE - EUNICE  
NATALIE GLADDEN  
P. O. BOX 1849  
EUNICE NM, 88231  
Fax To: 394-2425

Received:	12/14/2011	Sampling Date:	12/14/2011
Reported:	12/19/2011	Sampling Type:	Soil
Project Name:	RANDY FEDERAL TANK BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SB #2 @ SURFACE (H102690-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	<10.0	10.0	12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane	70.6 %	55.5-154							
Surrogate 1-Chlorooctadecane	87.4 %	57.6-158							

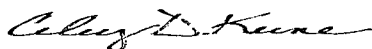
**Sample ID: SB #2 @ 15' (H102690-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	<10.0	10.0	12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane	68.8 %	55.5-154							
Surrogate 1-Chlorooctadecane	82.0 %	57.6-158							

Cardinal Laboratories

\*=Accredited Analyte

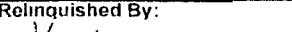


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Celey D. Keene, Lab Director/Quality Manager



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<b>Relinquished By:</b> 		<b>Date:</b> 12/14/10 <b>Time:</b> 2:55		<b>Received By:</b> 
<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		<b>CHECKED BY:</b> Initials) 
<b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b> email results Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com kneeman@rice-ecs.com				

#26

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	12/14/2011	Sampling Date:	12/14/2011
Reported:	12/17/2011	Sampling Type:	Soil
Project Name:	RANDY FEDERAL TANK BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT 1 SURFACE (H102689-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/16/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	
Surrogate 1-Chlorooctane	80.3 %	55.5-154							
Surrogate 1-Chlorooctadecane	75.7 %	57.6-158							

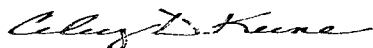
**Sample ID: PT 1 @6" (H102689-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	
Surrogate 1-Chlorooctane	66.7 %	55.5-154							
Surrogate 1-Chlorooctadecane	84.3 %	57.6-158							

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	12/14/2011	Sampling Date:	12/14/2011
Reported:	12/17/2011	Sampling Type:	Soil
Project Name:	RANDY FEDERAL TANK BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT 2 SURFACE (H102689-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/16/2011	ND	432	108	400	0.00		
TPH 8015M		mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17		
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02		
Surrogate 1-Chlorooctane	72.4 %	55.5-154								
Surrogate 1-Chlorooctadecane	80.3 %	57.6-158								

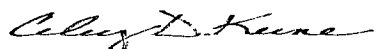
**Sample ID: PT 2 @ 6" (H102689-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/16/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	
Surrogate 1-Chlorooctane		78.8 %	55.5-154						
Surrogate 1-Chlorooctadecane		89.3 %	57.6-158						

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	12/14/2011	Sampling Date:	12/14/2011
Reported:	12/17/2011	Sampling Type:	Soil
Project Name:	RANDY FEDERAL TANK BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT 3 SURFACE (H102689-05)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	
<hr/>									
Surrogate 1-Chlorooctane	67.7 %	55.5-154							
Surrogate 1-Chlorooctadecane	90.1 %	57.6-158							

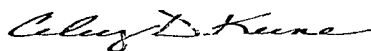
**Sample ID: PT 3 @ 6" (H102689-06)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	
<hr/>									
Surrogate 1-Chlorooctane	84.4 %	55.5-154							
Surrogate 1-Chlorooctadecane	90.8 %	57.6-158							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	12/14/2011	Sampling Date:	12/14/2011
Reported:	12/17/2011	Sampling Type:	Soil
Project Name:	RANDY FEDERAL TANK BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT 4 SURFACE (H102689-07)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	
Surrogate 1-Chlorooctane	74.4 %	55.5-154							
Surrogate 1-Chlorooctadecane	87.3 %	57.6-158							

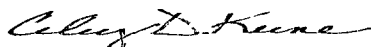
**Sample ID: PT 4 @ 6" (H102689-08)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	
Surrogate 1-Chlorooctane	68.8 %	55.5-154							
Surrogate 1-Chlorooctadecane	77.2 %	57.6-158							

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

 Received: 12/14/2011  
 Reported: 12/17/2011  
 Project Name: RANDY FEDERAL TANK BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/14/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PT 5 SURFACE (H102689-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	

Surrogate 1-Chlorooctane 77.4 % 55.5-154

Surrogate 1-Chlorooctadecane 93.7 % 57.6-158

**Sample ID: PT 5 @ 6" (H102689-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2011	ND	209	104	200	2.17	
DRO >C10-C28	<10.0	10.0	12/16/2011	ND	174	87.1	200	7.02	

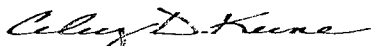
Surrogate 1-Chlorooctane 66.9 % 55.5-154

Surrogate 1-Chlorooctadecane 78.6 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: <u>Kyle</u>		Date: <u>12-14-11</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: <u>2:55</u>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:				email results	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Natalie.Gladden@usa.apachecorp.com;	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		Zconder@rice-ecs.com; Bbaker@rice-ecs.com;	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
				<u>Karen@rice-ecs.com</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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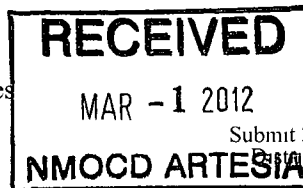
# Appendix E

Final Form C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 5630 Hobbs, NM 88241  
Phone 575.393.4411 Fax 575.393.0293

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505



Form C-141  
Revised October 10, 2003  
Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Apache Corporation	Contact	Natalie Gladden
Address	P O Box 1849, Eunice, NM, 88231	Telephone No	(575) 390-4186
Facility Name	Randy Federal Transfer Station (nearest well Randy Federal #4)	Facility Type	Water Station

Surface Owner	BLM	Mineral Owner	State	Lease No.	30-015-30251
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	22	17S	30E	1650'	FNL	330'	FEL	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	180	Volume Recovered	160
Source of Release	2 x1 Swedge		06/28/11		06/28/11 7 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Randy Dade and Mike Bratcher, as well as Justin with BLM		
By Whom?	Natalie Gladden	Date and Hour	06/28/11 9 42 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse			

If a Watercourse was Impacted, Describe Fully \*

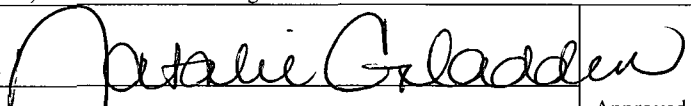
Describe Cause of Problem and Remedial Action Taken \*

2 x1 swedge on transfer pump busted releasing 180 bbls of produced water and recovering 160 bbls of produced water The fluid was released both inside the bermed area as well as on the well pad for the Randy Federal #4 The swedge was replaced immediately

Describe Area Affected and Cleanup Action Taken \*

The leak affected the battery floor and the part of the well pad area The impacted area within the containment was excavated to 2 ft below ground surface and the well pad area was scraped A total of 180 cubic yards of impacted soil was taken to a NMOCD approved disposal facility A temporary monitoring well was installed on location to a depth of 100 ft below ground surface, and no water was detected The temporary well was plugged, and the excavation was backfilled with clean caliche

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations

Signature			
Printed Name	Natalie Gladden		
Title	EH&S Environmental Tech		OIL CONSERVATION DIVISION
E-mail Address	Natalie.gladden@apachecorp.com		Approved by District Supervisor
Date	2/27/12	Phone	(575) 390-4186
Conditions of Approval		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary