



August 5, 2020

Mr. Bradford Billings
State of New Mexico Oil Conservation Division
1220 South St Francis Drive
Santa Fe, NM 87505

RE: 2-RP 1602 D State Battery

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring July 26, 2012. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2012 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker@apachecorp.com

Sincerely,

Larry Baker

Attachment: Closure Report Dated August 5,
2020



2350 W Marland Blvd Hobbs, NM 88240

Closure Report

August 5, 2020

Re: D State Battery
API# 30-015-30975
Case # 2RP-1602

To: Bradford Billings
New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department
1220 South St. Francis Dr. Santa Fe, NM 87505

On September 25, 2012 a release occurred due to a fire tube gasket ruptured on a heater treater resulting in the loss of fluid. An initial C-141 was submitted to NMOCD and approved on April 8, 2013. The D State Battery (GPS 32.800144, -104.14596) is located east of Artesia, New Mexico in unit letter I section 24 township 17S range 28E. The average depth to groundwater is 157 feet according to well records obtained from NMOSE and USGS.

The release was contained inside the facility. Analytic data from samples collected on September 27, 2012 and October 12, 2012 suggest that remediation of the release occurred to below table one standards. The D State Battery at present is a lined facility with a liner over the release area that occurred in 2012.

Apache Corporation respectfully request that 2RP-1602 be closed.

Enclosed: C-141, Maps, Sample Data, and Laboratory Results.

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Off# 575-393-7106

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

RECEIVED

MAR 26 2013

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

NMOC D ARTESIA

Release Notification and Corrective Action

1309842142

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	D State Battery (D State #21)	Facility Type	Facility

Surface Owner	Unknown	Mineral Owner	State	Lease No.	30-015-30975
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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
1	25	17S	28E	2310'	FSL	330'	FEL	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil/Produced Water	Volume of Release	25	Volume Recovered	24
Source of Release	Fire-tube gasket failed	Date and Hour of Occurrence	09/25/12	Date and Hour of Discovery	09/25/12
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Natalie Gladden	If YES, To Whom?	Mike Bratcher		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date and Hour	10/01/12				
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.*	The fire tube gasket on the heater treater ruptured. Standing fluid was recovered from inside the burned facility.				
Describe Area Affected and Cleanup Action Taken.*	Remediation will begin once the NM One-Call is cleared. Site will be hand excavated to meet the NMOC D Standard.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D 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 NMOC D 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, NMOC D 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: <i>Natalie Gladden</i>	OIL CONSERVATION DIVISION	
Printed Name: Natalie Gladden	Approved by District Supervisor:	Signed By: <i>Mike Bratcher</i>
Title: Sr. Environmental Tech	Approval Date: APR 08 2013	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/01/12 Phone: 575-390-4186	Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	
Attach Additional Sheets If Necessary	May 8, 2013	28P-1602

Release Notifications

Warren, JeanMarie, EMNRD

Sent: Tuesday, March 26, 2013 10:03 AM

To: Natalie.Gladden@apachecorp.com

Cc: Bratcher, Mike, EMNRD

To whom it may concern,

I am writing to you on behalf of Mike Bratcher. We are attempting to follow up regarding a few release notifications that was given to our office, by you, on: 1/22/2013, 12/10/2012, 10/01/2012, 07/19/2012, 06/14/2012, 05/23/2012

Release Date/Location:

- 1/21/2013, Raven 12 H
- 12/09/2012, Tony Federal #46
- No specific Date, D state Btry (closest well #21)
- 7/18/2012, NB Tween #25
- 6/10/2012, Empire ABO Unit G312
- 5/23/2012, Tony Federal Btry (Tony Federal #10)

We have no record of having received an initial C-141, please advise the status of this release and submit an initial C-141 to Mr. Bratcher.

Thank you for your time.

Respectfully,

*Jean-Marie Warren
Business Operations Specialist
NM-OCD District II, Artesia
(575) 748-1283, ext. 101*

C141

Gladden, Natalie [Natalie.Gladden@apachecorp.com]

Sent: Tuesday, March 26, 2013 3:04 PM
To: Warren, JeanMarie, EMNRD
Cc: Bratcher, Mike, EMNRD
Attachments: 20130326155559088.pdf (440 KB)

Here you go. If you need me to put them back in the mail, I can do that also.

Natalie Gladden
Apache Corporation
Sr. Environmental Tech
New Mexico District
Cell: 575-390-4186
Office: 575-394-1503 x 1258
Fax: 575-394-2425
Email: natalie.gladden@apachecorp.com

-----Original Message-----

From: ricoh.service@apachecorp.com [mailto:ricoh.service@apachecorp.com]
Sent: Tuesday, March 26, 2013 2:56 PM
To: Gladden, Natalie
Subject:

This E-mail was sent from "rideunr33511" (Aficio MP 3351).

Scan Date: 03.26.2013 15:55:58 (-0400)
Queries to: ricoh.service@apachecorp.com

Bratcher, Mike, EMNRD

From: Gladden, Natalie <Natalie.Gladden@apachecorp.com>
Sent: Monday, October 01, 2012 9:41 AM
To: Bratcher, Mike, EMNRD
Subject: D State Battery

Mike,

Sorry this is late.

D State Battery (closest well #21)

30-015-30975

I-S25, T17S, R28E

2310' FSL and 330' FEL

Eddy County

The fire tube gasket on the heater treater ruptured.

10bbbls of oil and 15bbbls of produced water released

9.5bbbls of oil and 14.5bbbls of produced water was recovered

All fluid stayed inside the falcon containment, but we believe that maybe some exit the containment. Not sure if it was just from all the rain. We are pulling samples to determine that.

Thanks, C141 to follow.

Natalie Gladden

Apache Corporation

Sr. Environmental Tech

New Mexico District

Cell. 575-390-4186

Office. 575-394-1503 x 1258

Fax. 575-394-2425

Email. natalie.gladden@apachecorp.com

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>157</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

<input checked="" type="checkbox"/>	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
<input type="checkbox"/>	Field data
<input checked="" type="checkbox"/>	Data table of soil contaminant concentration data
<input checked="" type="checkbox"/>	Depth to water determination
<input checked="" type="checkbox"/>	Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
<input checked="" type="checkbox"/>	Boring or excavation logs
<input type="checkbox"/>	Photographs including date and GIS information
<input checked="" type="checkbox"/>	Topographic/Aerial maps
<input checked="" type="checkbox"/>	Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Bruce BAKER Title: Environmental Tech SR
Signature: Bruce Baker Date: 11-14-19
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Larry Baker Title: Environmental Tech SR.
Signature: _____ Date: 8/5/2020
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: OCD Date: 8/5/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: 01/11/2023
Printed Name: Ashley Maxwell Title: Environmental Specialist





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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater ▼

Geographic Area:

New Mexico ▼

GO

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324724104082301

Minimum number of levels = 1

[Save file of selected sites to local disk for future upload](#)

USGS 324724104082301 17S.28E.35.42233

Available data for this site

Groundwater: Field measurements ▼

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°47'24", Longitude 104°08'23" NAD27

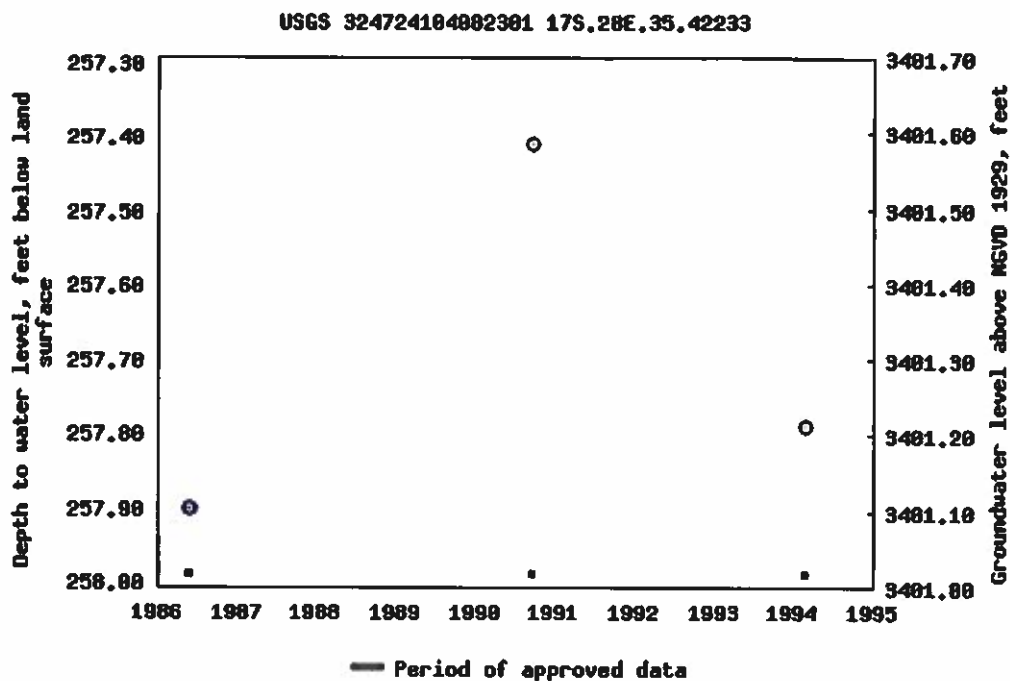
Land-surface elevation 3,659 feet above NGVD29

The depth of the well is 280.00 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-12-03 16:31:20 EST

1.05 0.92 nadww01



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q Q Q	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column	
RA 12307 POD1		ED	4	2	2	14	17S	28E	580495	3633981	3792	140	58	82
Average Depth to Water:											58 feet			
Minimum Depth:											58 feet			
Maximum Depth:											58 feet			

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 577879

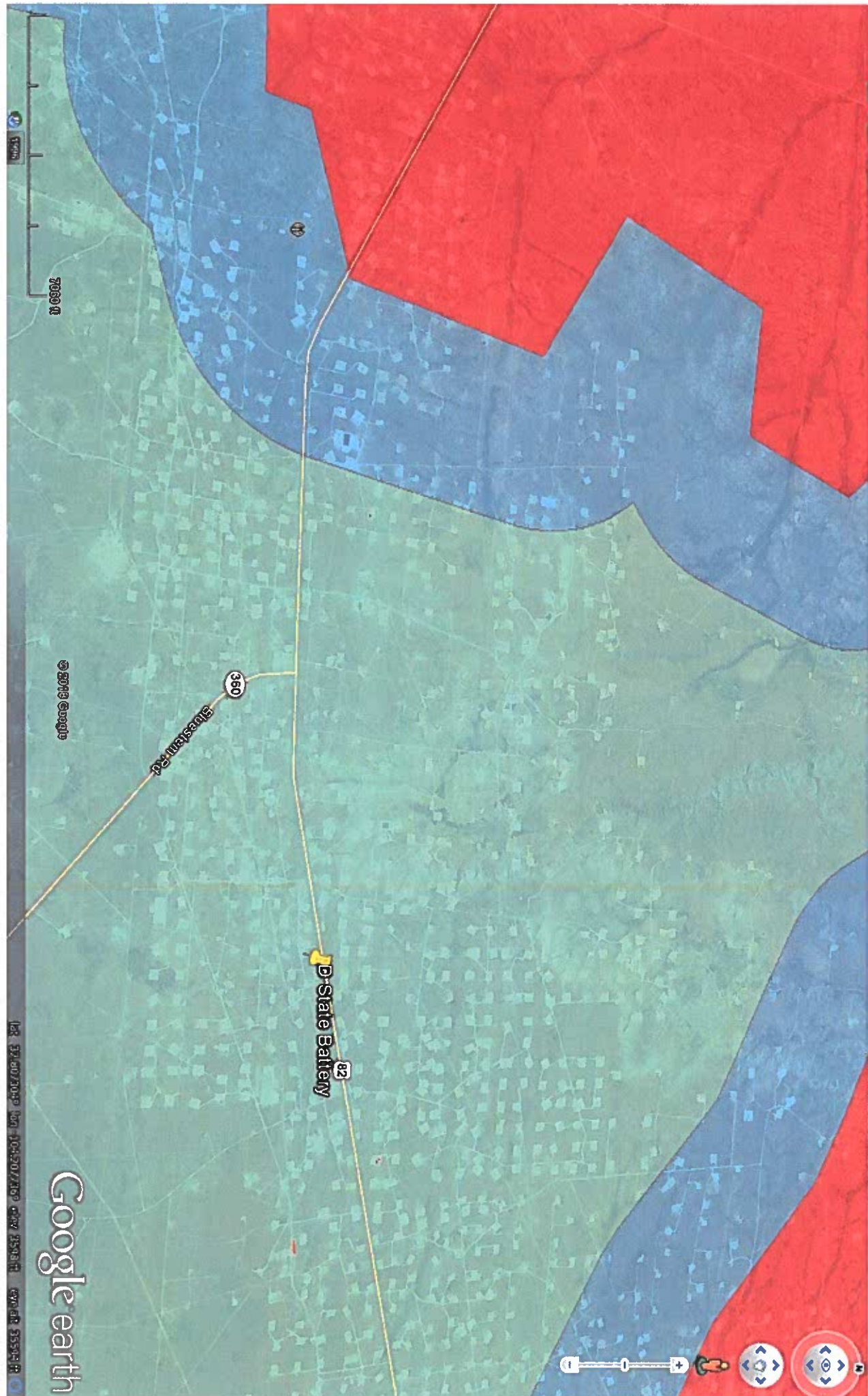
Northing (Y): 3631236

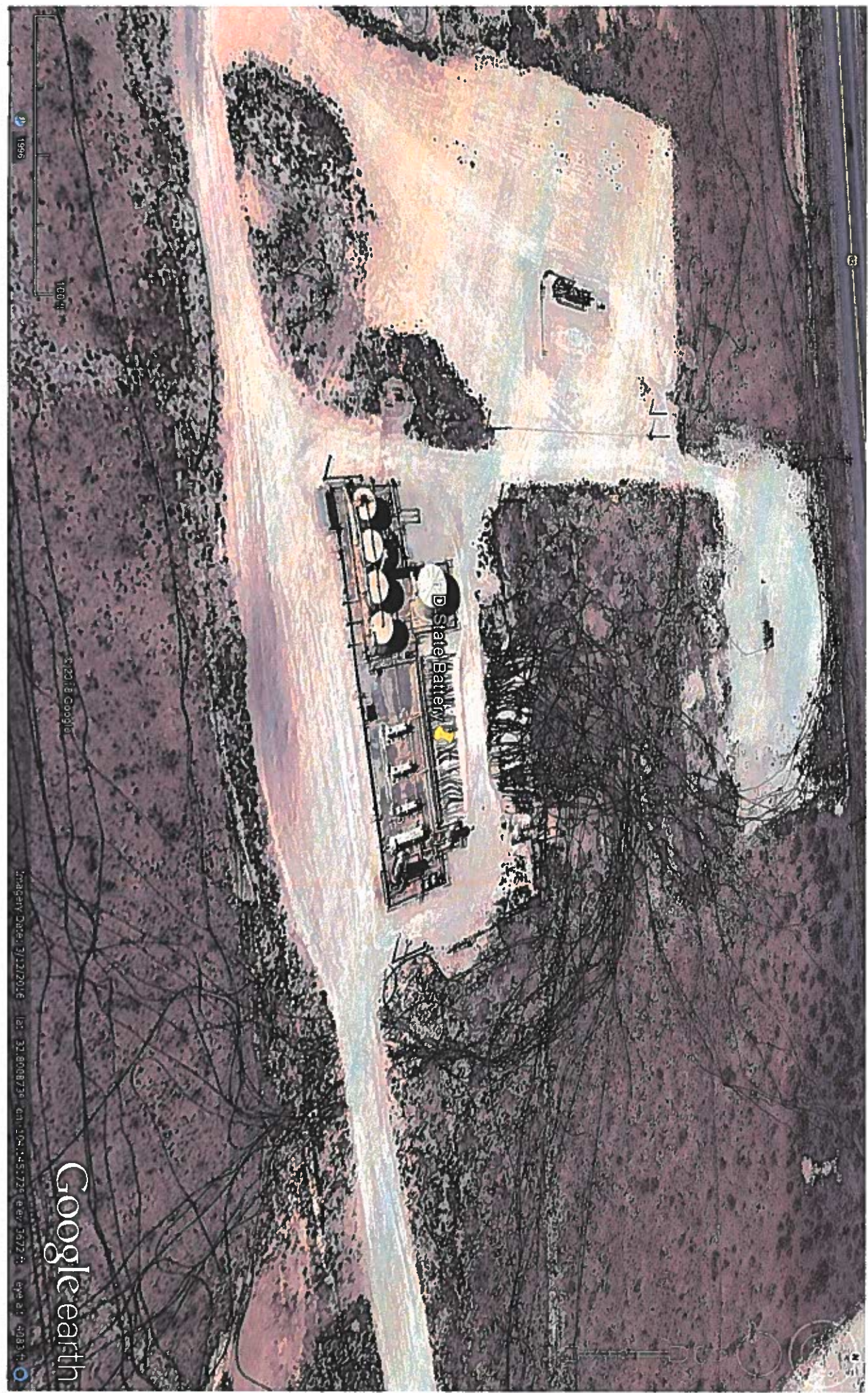
Radius: 4000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/1/18 9 02 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER





Sample Data

Sample ID	Depth	Chloride	GRO	DRO	Date
PT 1	Surface	496	<10.0	54.7	9/27/2012
PT 1	18"	32	<10.0	<10.0	10/12/2012
PT 2	Surface	6000	1720	5710	9/27/2012
PT 2	2'	80	<10.0	<10.0	10/12/2012



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

Analytical Results For:

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

Received: 10/12/2012
 Reported: 10/16/2012
 Project Name: D STATE BATTERY AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 @ 18" (H202489-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2012	ND	400	100	400	3.92	
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	10/16/2012	ND	181	90.3	200	0.0725	
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	175	87.3	200	1.06	

Surrogate: 1-Chlorooctane 81.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.9 % 63.6-154

Sample ID: PT. 1 @ 2' (H202489-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/16/2012	ND	400	100	400	3.92	
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	10/15/2012	ND	181	90.3	200	0.0725	
DRO >C10-C28	<10.0	10.0	10/15/2012	ND	175	87.3	200	1.06	

Surrogate: 1-Chlorooctane 70.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 66.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Corp		BILL TO		ANALYSIS REQUEST													
Project Manager: Natalie Gladden		P.O. #		<div>Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS</div>													
Address: 123 Tally Ho		Company:															
City: State: NM Zip: 88240		Attn:															
Phone #: Fax #:		Address:															
Project #: Project Owner:		City:															
Project Name:		State: Zip:															
Project Location: D. Greys Battery		Phone #:															
Sampler Name: KAREN LEWIS		Fax #:															
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING												
			GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	ACID/ALKALI ICE/COOL OTHER	DATE	TIME											
	H262469																
	1	10/16/12															
	2	10/16/12															
<small>PLEASE NOTE: Liability and Damages: Cardinal's liability and third-party liability for any claim arising whether based in contract or tort shall be limited to the amount of the fee charged for the analyses. Asbestos, including those for regulatory and any other claim which may be discovered shall be deemed to have been analyzed and reported by Cardinal within 60 days after completion of the analyses. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, loss of profits, loss of data, or any other damages. If failure or success in filing out of or related to the performance of services hereunder by Cardinal is the basis of a claim, it shall be based on a written statement of the facts of the case.</small>																	
Relinquished By: Karen Lewis		Date: 10/16/12	Received By: Audi Skewen		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:						
Relinquished By:		Date:	Received By:		REMARKS												
Delivered By: (Circle One)		Date:	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		email results: Karen@rice-ecs.com												
Sampler - UPS - Bus - Other:		Date:	CHECKED BY: (Initials)		natalie.gladden@apachecorp.com												
		Date:			Zconder@rice-ecs.com; Bbaker@rice-ecs.com;												
		Date:			hconder@rice-ecs.com; Lweinheimer@rice-ecs.com												

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

#26



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

October 16, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: D STATE BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 10/12/12 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2012
 Reported: 10/01/2012
 Project Name: D STATE BATTERY AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 SURFACE (H202355-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/28/2012	ND	416	104	400	3.92	
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	09/27/2012	ND	199	99.7	200	3.11	
DRO >C10-C28	54.7	10.0	09/27/2012	ND	202	101	200	13.6	
Surrogate: 1-Chlorooctane	94.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	98.7 %	63.6-154							

Sample ID: PT. 2 SURFACE (H202355-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	09/28/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1720	50.0	09/27/2012	ND	199	99.7	200	3.11	
DRO >C10-C28	5710	50.0	09/27/2012	ND	202	101	200	13.6	
Surrogate: 1-Chlorooctane	201 %	65.2-140							
Surrogate: 1-Chlorooctadecane	175 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500CI-B does not require samples be received at or below 6°C.
Samples reported on an as received basis (wet) unless otherwise noted on report

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Relinquished By:	Date: 8-27-13	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 8:30			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 8-27-13	Received By:	REMARKS:	
Time: 12:00			email results	
Delivered By: (Circle One)		Sample Condition	natalie.gladden@apachecorp.com	
		Cool Intact:	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com;	
Sampler - UPS - Bus - Other:		CHECKED BY: (Initials)	jkamplain@rice-ecs.com	

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

CONDITIONS

Action 9529

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 9529
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/11/2023