



DAVID FEATHER
ENVIRONMENTAL SUPERVISOR
DIRECT: (432) 818-1615
E-MAIL: DAVID.FEATHER@APACHECORP.COM

October 8, 2019

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

RE: 2RP-1264 Tony Federal 36

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 28, 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 432-818-1615 or by e-mail at David.Feather@ApacheCorp.com.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Feather".

David Feather
Environmental Supervisor
Apache Corporation - Permian Basin Region

Attachment: Closure Report Dated October 4, 2019

Received by OCD: 10/8/2019 3:04:16 PM
Received by OCD: 10/8/2019 3:07:16 PM



Bruce Baker

Tony Federal #36

Remediation Closure Plan

API # 30-015-39836

2RP-1264

Release Date: 7/28/2012

U/L F, Section 19, Township 17S, Range 31E

Eddy County, New Mexico

October 4, 2019



Hungry Horse LLC
4024 Plains Highway
Lovington, NM 88260

October 4, 2019

RE: Closure Request for Apache Corporation – Tony Federal #36

API No. 30-015-39836

U/L F, Section 19, Township 17S, Range 31E

Eddy County, NM

To Whom It May Concern,

On behalf of Apache Corporation, Hungry Horse LLC has prepared this Closure Report that demonstrates the release site associated with the Tony Federal #36 was remediated sometime before or after August 16, 2012, with the RP # of 2RP-1264.

Background

This site is located in Eddy County near Loco Hills, New Mexico. On July 30th, 2012 the C-141 for the Release Notification and Corrective Action was submitted to the NMOCD.

Ground Water Information

Hungry Horse has conducted a ground water study of the area. It has been determined that according to the New Mexico Office of the State Engineer, there is no ground water within a 5000' radius. The wells located closest to the release site on the Tony Federal #36 that have been recorded as follows:

RA 11590 POD4: well is set at 55'bgs, water level is not present, distance from the site is 2974'.

RA 11590 POD3: well is set at 60'bgs, water level is not present, distance from the site is 3278'.

RA 11590 POD1: well is set at 158'bgs, water level is not present, distance for the site is 3633'.

This spill release was remediated under the old rule and therefore does not fall under the new standard 19.15.29 NMAC adopted on August 14, 2018.

Site Delineation and Remediation

Apache Corporation began delineation of this site starting on or before August 10th, 2012. An internal investigation and remediation was conducted by Apache Corporation.

Initial samples were taken on the August 10th, 2012 and sent to Cardinal Laboratories and analyzed for benzene, toluene, ethylbenzene, total xylenes, chloride, total petroleum

hydrocarbons (TPH) - gasoline range organics (GRO), and diesel range organics (DRO). Lab data was available from the delineation process, which is included in this report.

Please see the Cardinal Laboratories Analysis Report detailed herein. The initial sample results are as follows:

5' North:

Benzene	<0.050 mg/kg
Toluene	<0.150 mg/kg
Ethylbenzene	0.160 mg/kg
Total Xylenes	0.512 mg/kg
Chloride	19200 mg/kg
TPH 8015M:	
GRO C6-C10	<50 mg/kg
DRO >C10-C28	663 mg/kg

5' East:

Benzene	<0.200 mg/kg
Toluene	<0.600 mg/kg
Ethylbenzene	0.715 mg/kg
Total Xylenes	2.36 mg/kg
Chloride	17800 mg/kg
TPH 8015M:	
GRO C6-C10	125 mg/kg
DRO >C10-C28	2770 mg/kg

5' South:

Benzene	0.687 mg/kg
Toluene	2.97 mg/kg
Ethylbenzene	4.57 mg/kg
Total Xylenes	13.6 mg/kg
Chloride	14000 mg/kg
TPH 8015M:	
GRO C6-C10	339 mg/kg
DRO >C10-C28	5160 mg/kg

5' West:

Benzene	<0.050mg/kg
Toluene	<0.150 mg/kg
Ethylbenzene	0.437 mg/kg

Total Xylenes	1.46 mg/kg
Chloride	17800 mg/kg
TPH 8015M:	
GRO C6-C10	77.8 mg/kg
DRO >C10-C28	1310 mg/kg

35' South/ 9' West:

Chloride	34400 mg/kg
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95' South:

Chloride	22400 mg/kg
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38' East/ 51' North:

Chloride	12900 mg/kg
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68' West/ 93'South:

Chloride	25600 mg/kg
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15' North/ 59'South:

Chloride	30800 mg/kg
----------	-------------

58' West/ 30'South:

Chloride	28000 mg/kg
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Two separate areas were excavated, impacted material was disposed of at an NMOCD approved disposal facility.

Samples were taken on the 8/10/12 and sent to Cardinal Laboratories and analyzed for chlorides. Lab data was available from the delineation process, which is included in this report.

Please see the Cardinal Laboratories Analysis Report detailed herein. The sample results are as follows:

N. Wall Center – E. Scrape	80 mg/kg
E. Wall Center – E Scrape	<16 mg/kg
S. Wall Center – E Scrape	96 mg/kg
5 Point Btm Comp. – E Scrape	48 mg/kg
N. Wall Center – NE. Scrape	<16 mg/kg
E. Wall Center – NE Scrape	64 mg/kg
S. Wall Center – NE Scrape	<16 mg/kg

W. Wall Center – NE Scrape
5 Point Btm. Comp. – NE Scrape

<16 mg/kg
48 mg/kg

Request for Closure

Apache Corporation in conjunction with Hungry Horse, LLC would like to request the closure of 2RP-1264 that occurred on July 28th, 2012. If you have any questions or concerns, please contact me at any time.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Brian".

Jerry Brian
Environmental Manager/Geologist/REM/REPA
4024 Plains Highway
Lovington, NM 88260
Cell: 970-630-6293
jbrian@hungry-horse.com

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NJMW 1224149562 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 Tony Federal #36	Facility Type Drilling site, new production well

Surface Owner BLM	Mineral Owner BLM/NMOCD	API No. 30-015-39836
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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
F	19	17s	31E	2310'	FNL	2260'	FWL	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Brine Water	Volume of Release 200	Volume Recovered 0
Source of Release Cuttings tank overflowed	Date and Hour of Occurrence 07/28/2012	Date and Hour of Discovery 07/28/2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Natalie Gladden	Date and Hour 07/30/12 945am	
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.*

RECEIVED
AUG 09 2012

Describe Cause of Problem and Remedial Action Taken.*

While drilling the intermediate section, flow was encountered, volume overcame pump causing the cuttings tank to overflow.

NMOCD ARTESIA

Describe Area Affected and Cleanup Action Taken.*

Once the drilling rig is moved off of the location, initial samples will be taken and site will be assessed. At that time a remediation plan will be done. Site will be remediated to meet both BLM and OCD regulations.

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: <u>Natalie Gladden</u>	OIL CONSERVATION DIVISION	
Printed Name: Natalie Gladden	Approved by Environmental Specialist	Signed By <u>Mike Bratcher</u>
Title: EHS Environmental Tech	Approval Date: <u>AUG 28 2012</u>	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07/30/12 Phone: 575-390-4186		

* Attach Additional Sheets If Necessary

Remediation per OCD Rules &
Guidelines. SUBMIT REMEDIATION
PROPOSAL NOT LATER THAN:

9/28/12

2RP-1264

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>None</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.*

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

Form C-141

Page 4

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: 10-7-19email: larry.baker@apachecorp.com Telephone: 432-631-6982OCD Only

Received by: _____ Date: _____

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nJMW1224149562
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: Bruce Baker Title: Environmental Tech SR.

Signature:  Bruce Baker Date: 10-7-19

email: larry.baker@apackecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

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: Bradford Billings Date: 07/01/2021

Printed Name: Bradford Billings Title: Envi.Spec.A

Release #102

Bratcher, Mike, EMNRD

From: Gladden, Natalie <Natalie.Gladden@apachecorp.com>
Sent: Monday, July 30, 2012 9:45 AM
To: Bratcher, Mike, EMNRD; Amos, James A (jamos@blm.gov)
Cc: Bruce Baker (bbaker@rice-ecs.com)
Subject: FW: PHOTOS / SPILL REPORT: TONY FEDERAL #36
Attachments: P3070979.JPG; P3070980.JPG; P3070981.JPG

Mike and James,

Attached you will find the reportable spill on the Tony Federal #36 that occurred on Saturday. I was notified about it this morning. I apologize for our drilling department not notifying me in a timely manner. The remediation will begin after the well is completed unless you order it to be done after the drilling rig moves off. Notices will be sent in the mail today.

30-015-39836
F-19-175-31E
2310' FNL and 2260' FWL

Natalie Gladden

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

From: Fleming, Steven
Sent: Monday, July 30, 2012 8:24 AM
To: Gladden, Natalie
Subject: FW: PHOTOS / SPILL REPORT: TONY FEDERAL #36

Natalie,
Can you get the ball rolling on this if you haven't already?

Thanks

From: Burt, Jeffery
Sent: Saturday, July 28, 2012 5:11 PM
To: Fleming, Steven
Subject: Fw: PHOTOS / SPILL REPORT: TONY FEDERAL #36

Connected by DROID on Verizon Wireless

-----Original message-----

From: "Caywood, James" <James.Caywood@apachecorp.com>
To: "Caywood, James" <James.Caywood@apachecorp.com>, "Burt, Jeffery" <Jeffery.Burt@apachecorp.com>
Cc: "Laman, Danny" <Danny.Laman@apachecorp.com>, "McKay, Richard" <Richard.McKay@apachecorp.com>
Sent: Sat, Jul 28, 2012 22:02:39 GMT+00:00
Subject: PHOTOS / SPILL REPORT: TONY FEDERAL #36

Internal Incident Report – Spill/Release

Location: TONY FEDERAL #36

Date: 7/28/2012

Time: 0100

Driving Locations: From the intersection of US-82 and NM-529 (6 miles east of Loco Hills), go west on US-82 for 2.4 miles. Turn right and go north on Co. Rd. 221 (Skelly Road) for 0.2 mile. Turn right and go generally east for 0.6 mile. Turn right and go south for 270 feet to the Linn Operating Turner A #49 location. The Tony Federal #36 well pad adjoins the west side of the Linn Operating Turner A #49 well pad, and the Tony Federal #36 well location is 195 feet west-southwest of the Linn Operating Turner A #49 well location.

One Line Summary: PRODUCTION WATER OVERFLOW OF MUD TANK

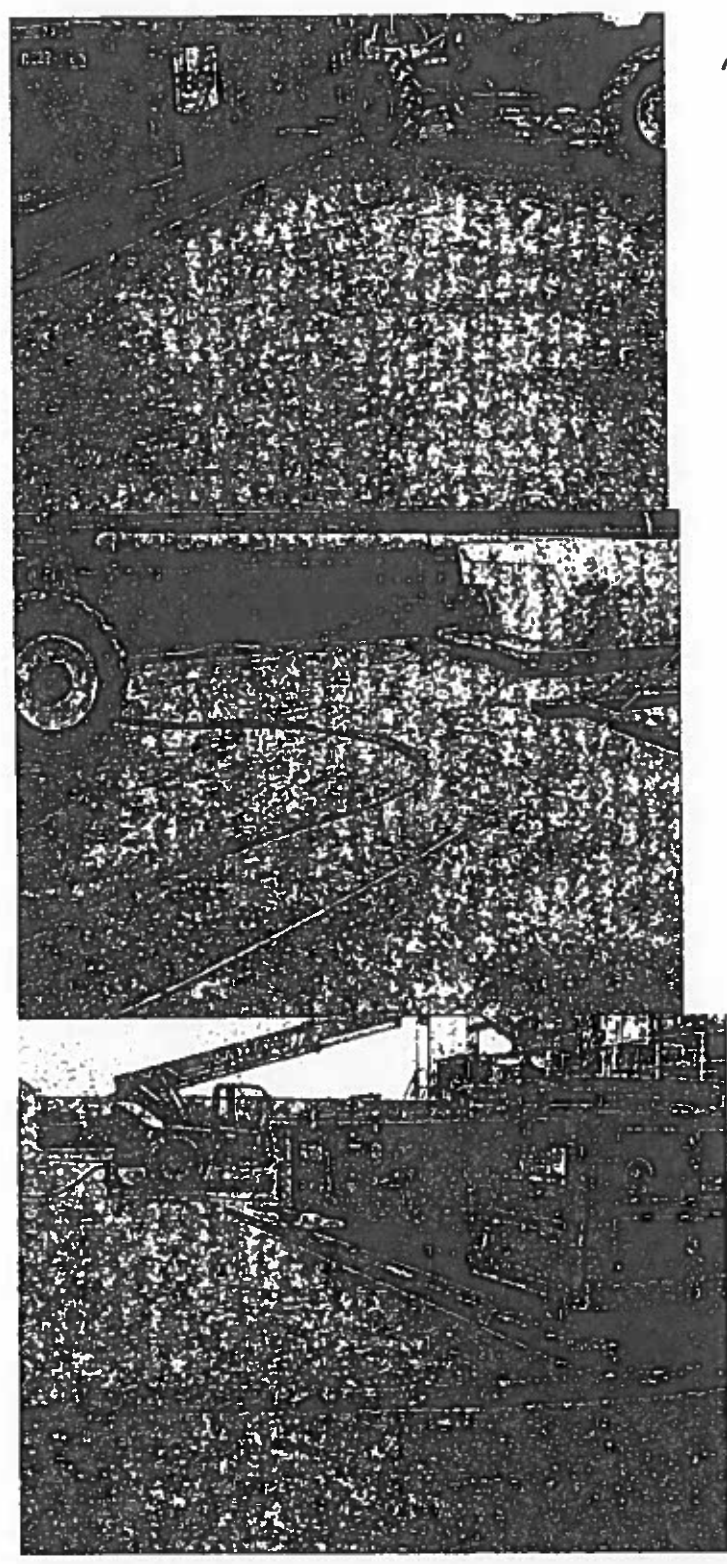
Full summary: WHILE DRILLING INTERMEDIATE SECTION..FLOW WAS ENCOUNTERED ..VOLUME OVERCAME PUMP AWAY CAPABILITIES AND CUTTINGS TANK OVERFLOWED.

- RELEASED PW IS APROX. 50 bbls
- AREA AFFECTED IS APROX. 50 FT X 100 FT
- CONTAINED ON LOCATION
- PHOTOS ATTACHED

Reported by: James "Mike" Caywood

Apache Corp Tony Fed 36
30-015-39836
F-19-175-315

Release on 1/28/12 during
Drilling Ops



Release # 232

Bratcher, Mike, EMNRD

From: Gladden, Natalie <Natalie.Gladden@apachecorp.com>
Sent: Monday, July 30, 2012 3:22 PM
To: Bratcher, Mike, EMNRD
Subject: FW: PHOTOS / SPILL REPORT: TONY FEDERAL #36
Attachments: P3070979.JPG; P3070980.JPG; P3070981.JPG

Just received a call, it has occurred again. 150bbbls out 145 recovered. Will add this to the volume.

Natalie Gladden

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

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Cc: Bruce Baker (bbaker@rice-ecs.com)
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Mike and James,

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2310' FNL and 2260' FWL

Natalie Gladden

Apache Corporation
EHS Environmental Tech
New Mexico District
Cell. 575-390-4186
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-----Original message-----

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To: "Caywood, James" <James.Caywood@apachecorp.com>, "Burt, Jeffery" <Jeffery.Burt@apachecorp.com>
Cc: "Laman, Danny" <Danny.Laman@apachecorp.com>, "McKay, Richard" <Richard.McKay@apachecorp.com>
Sent: Sat, Jul 28, 2012 22:02:39 GMT+00:00
Subject: PHOTOS / SPILL REPORT: TONY FEDERAL #36

Internal Incident Report – Spill/Release

Location: TONY FEDERAL #36

Date: 7/28/2012

Time: 0100

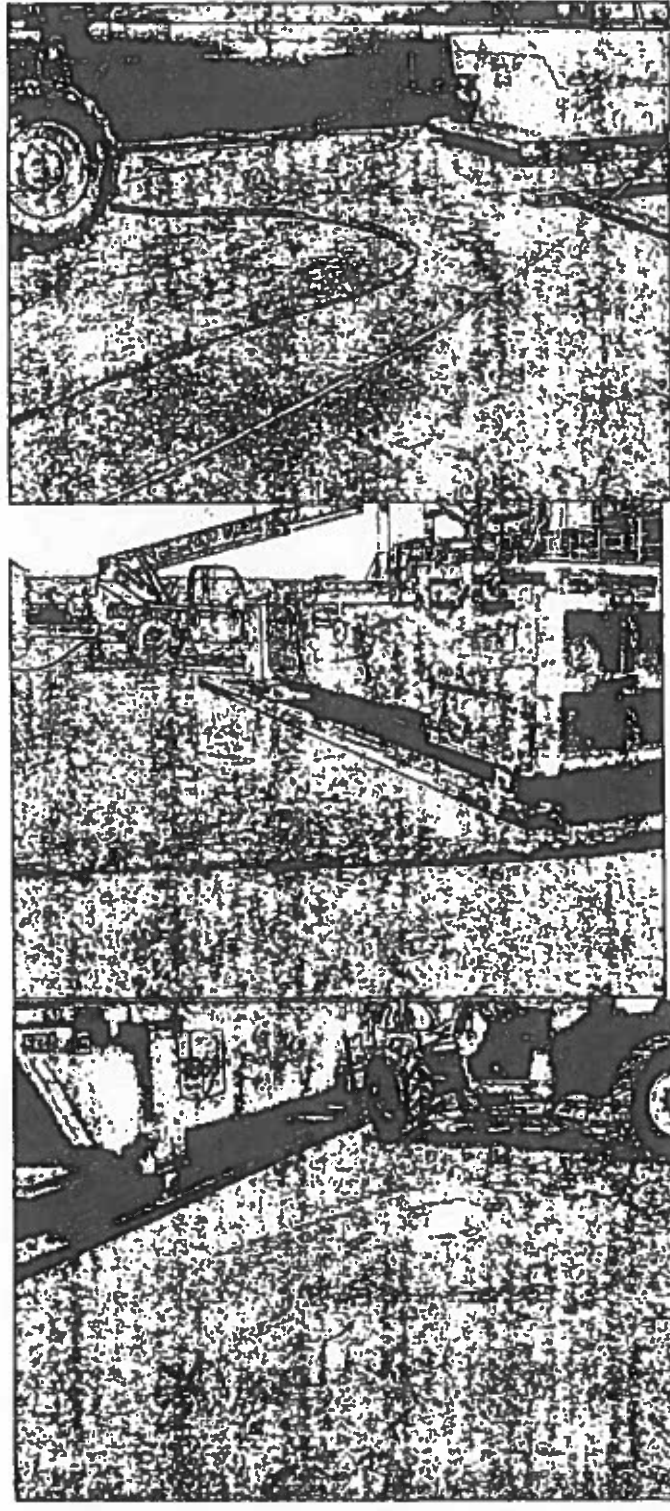
Driving Locations: From the intersection of US-82 and NM-529 (6 miles east of Loco Hills), go west on US-82 for 2.4 miles. Turn right and go north on Co. Rd. 221 (Skelly Road) for 0.2 mile. Turn right and go generally east for 0.6 mile. Turn right and go south for 270 feet to the Linn Operating Turner A #49 location. The Tony Federal #36 well pad adjoins the west side of the Linn Operating Turner A #49 well pad, and the Tony Federal #36 well location is 195 feet west-southwest of the Linn Operating Turner A #49 well location.

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- RELEASED PW IS APROX. 50 bbls
- AREA AFFECTED IS APROX. 50 FT X 100 FT
- CONTAINED ON LOCATION
- PHOTOS ATTACHED

Reported by: James "Mike" Caywood





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

August 16, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: TONY FEDERAL #036

Enclosed are the results of analyses for samples received by the laboratory on 08/10/12 17:00.

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: 08/10/2012
 Reported: 08/16/2012
 Project Name: TONY FEDERAL #036
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

Sampling Date: 08/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 5' NORTH (H201878-01)

BTX 80218 mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2012	ND	1.81	90.6	2.00	0.0384	
Toluene*	<0.150	0.150	08/15/2012	ND	2.18	109	2.00	1.76	
Ethylbenzene*	0.160	0.050	08/15/2012	ND	2.37	118	2.00	9.07	
Total Xylenes*	0.512	0.150	08/15/2012	ND	7.54	126	6.00	14.5	

Surrogate 4-Bromofluorobenzene (PIC) 121 % 89 4-126

Chloride, SM4500Cl-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	08/15/2012	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	<50.0	50.0	08/15/2012	ND	185	92.6	200	5.92	
DRO >C10-C28	663	50.0	08/15/2012	ND	192	96.1	200	7.21	

Surrogate 1-Chlorooctane 74.2 % 65 2-140

Surrogate 1-Chlorooctadecane 91.5 % 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 furnished 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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Analytical Results For:

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

Received: 08/10/2012
 Reported: 08/16/2012
 Project Name: TONY FEDERAL #036
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

Sampling Date: 08/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 5' EAST (H201878-02)

BTX 80218		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/15/2012	ND	1.81	90.6	2.00	0.0384	
Toluene*	<0.600	0.600	08/15/2012	ND	2.18	109	2.00	1.76	
Ethylbenzene*	0.715	0.200	08/15/2012	ND	2.37	118	2.00	9.07	
Total Xylenes*	2.36	0.600	08/15/2012	ND	7.54	126	6.00	14.5	

Surrogate 4-Bromofluorobenzene (PIC) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17800	16.0	08/15/2012	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	125	50.0	08/15/2012	ND	185	92.6	200	5.92	
DRO >C10-C28	2770	50.0	08/15/2012	ND	192	96.1	200	7.21	

Surrogate 1-Chlorooctane 106 % 65.2-140

Surrogate 1-Chlorooctadecane 149 % 63.6-154

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Analytical Results For:

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

Received: 08/10/2012
Reported: 08/16/2012
Project Name: TONY FEDERAL #036
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 08/10/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 5' SOUTH (H201878-03)

BTX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.687	0.200	08/15/2012	ND	1.81	90.6	2.00	0.0384	
Toluene*	2.97	0.600	08/15/2012	ND	2.18	109	2.00	1.76	
Ethylbenzene*	4.57	0.200	08/15/2012	ND	2.37	118	2.00	9.07	
Total Xylenes*	13.6	0.600	08/15/2012	ND	7.54	126	6.00	14.5	

Surrogate 4-Bromofluorobenzene (PIC) 165 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	08/15/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	339	50.0	08/15/2012	ND	185	92.6	200	5.92	
DRO >C10-C28	5160	50.0	08/15/2012	ND	192	96.1	200	7.21	

Surrogate 1-Chlorooctane 108 % 65.2-140

Surrogate 1-Chlorooctadecane 167 % 63.6-154

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/10/2012
 Reported: 08/16/2012
 Project Name: TONY FEDERAL #036
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

Sampling Date: 08/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 5' WEST (H201878-04)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2012	ND	1.81	90.6	2.00	0.0384	
Toluene*	<0.150	0.150	08/15/2012	ND	2.18	109	2.00	1.76	
Ethylbenzene*	0.437	0.050	08/15/2012	ND	2.37	118	2.00	9.07	
Total Xylenes*	1.46	0.150	08/15/2012	ND	7.54	126	6.00	14.5	

Surrogate 4-Bromofluorobenzene (PIL) 153 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17800	16.0	08/15/2012	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	77.8	50.0	08/15/2012	ND	185	92.6	200	5.92	
DRO >C10-C28	1310	50.0	08/15/2012	ND	192	96.1	200	7.21	

Surrogate 1-Chlorooctane 92.9 % 65.2-140

Surrogate 1-Chlorooctadecane 111 % 63.6-154

Sample ID: 35' SOUTH / 9' WEST (H201878-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34400	16.0	08/15/2012	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/10/2012
 Reported: 08/16/2012
 Project Name: TONY FEDERAL #036
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

Sampling Date: 08/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 95' SOUTH (H201878-06)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	08/15/2012	ND	416	104	400	3.92	

Sample ID: 38' EAST / 51' NORTH (H201878-07)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	08/15/2012	ND	416	104	400	3.92	

Sample ID: 68' WEST / 93' SOUTH (H201878-08)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	08/15/2012	ND	416	104	400	3.92	

Sample ID: 15' NORTH / 59' WEST (H201878-09)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	08/15/2012	ND	416	104	400	3.92	

Sample ID: 58' WEST / 30' SOUTH (H201878-10)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	08/15/2012	ND	416	104	400	3.92	

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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.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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[illegible]



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

August 21, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: TONY FEDERAL #036

Enclosed are the results of analyses for samples received by the laboratory on 08/15/12 16:42.

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: 08/15/2012
 Reported: 08/21/2012
 Project Name: TONY FEDERAL #036
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

Sampling Date: 08/15/2012
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: N WALL CENTER-E SCRAPE (H201913-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: NM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/20/2012	ND	416	104	400	3.92	

Sample ID: E WALL CENTER-E SCRAPE (H201913-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: NM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/20/2012	ND	416	104	400	3.92	

Sample ID: S WALL CENTER-E SCRAPE (H201913-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: NM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/20/2012	ND	416	104	400	3.92	

Sample ID: 5 PT BTM COMP-E SCRAPE (H201913-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: NM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/20/2012	ND	416	104	400	3.92	

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Analytical Results For:

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

Received:	08/15/2012	Sampling Date:	08/15/2012
Reported:	08/21/2012	Sampling Type:	Soil
Project Name:	TONY FEDERAL #036	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: N WALL CENTER-NE SCRAPE (H201913-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/20/2012	ND	416	104	400	3.92	

Sample ID: E WALL CENTER-NE SCRAPE (H201913-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/20/2012	ND	416	104	400	3.92	

Sample ID: S WALL CENTER-NE SCRAPE (H201913-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/20/2012	ND	416	104	400	3.92	

Sample ID: W WALL CENTER-NE SCRAPE (H201913-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/20/2012	ND	416	104	400	3.92	

Sample ID: 5 PT BTM COMP-NE SCRAPE (H201913-09)

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	08/20/2012	ND	416	104	400	3.92	

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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

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101 East Marland, Hobbs, NM 88240 2111 Baschwood, 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 Project Manager: natalie.gladen Address: City: State: NM Zip: Phone #: Fax #: Project #: Project Owner: Project Name: Tony Federal # 36 Project Location: Lolo Hills Sample Name: Roberto Perra				BILL TO P.O. #: Company: Attn: Address: City: State Zip: Phone #: Fax #: ANALYSIS REQUEST Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS							
Lab I.D.	Sample I.D.	CONTAINERS 4 CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE OTHER	MATRIX	PRESERV ACID/BASE ICE COOL OTHER	SAMPLING DATE TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
H201413	1 N. Wall Center E. Sample	✓	✓	✓	8/15/12 6:00	✓					
	2 E. Wall Center E. Sample	✓	✓	✓	9:05						
	3 S. Wall Center E. Sample	✓	✓	✓	9:10						
	4 Spt bottom camp E. Sample	✓	✓	✓	9:15						
	5 N. Wall Center NE Sample	✓	✓	✓	9:30						
	6 E. Wall Center NE Sample	✓	✓	✓	9:35						
	7 S. Wall Center NE Sample	✓	✓	✓	9:40						
	8 W. Wall Center NE Sample	✓	✓	✓	9:45						
	9 Spt bottom camp NE Sample	✓	✓	✓	9:50						

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Relinquished By: <i>Roberto Perra</i> Date: 8/15/12 Time: 4:42	Received By: <i>Natalie Gladden</i> Date: 8/15/12 Time: 4:42	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: email results n.gladen@apachecorp.com Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
---	---	--

Delivered By: (Circle One)
☒ Sample - UPS ☐ Bus ☐ Other:
 Sample Condition: Cool ☒ Intact ☐
 Type: ☒ Yes ☐ No ☐ M ☐ H
 Checked By: *N*

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTM NAD83 Radius Search (in meters):

Easting (X): 668677.65

Northing (Y): 3592626.96

Radius: 1000

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.

9/24/19 10:34 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer Wells with Well Log Information

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

(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	Subbasin	County	Source	Q1	Q2	Q3	Q4	Sec	Twp	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
RA11590POD4		RA	ED		4	1	1	32	17S	31E		643308	3629293	2974	01/21/2010	01/22/2010	04/23/2010	55			225
RA11590POD3		RA	ED		3	1	2	32	17S	31E		643332	3629260	3278	01/22/2010	01/22/2010	04/23/2010	60			225
RA11590POD1		RA	ED		2	1	3	32	17S	31E		643315	3628545	3633	01/20/2010	01/26/2010	04/23/2010	158			225

Record Count: 3

UTM/NAD83 Radius Search (in meters):

Easting (X): 642072.78

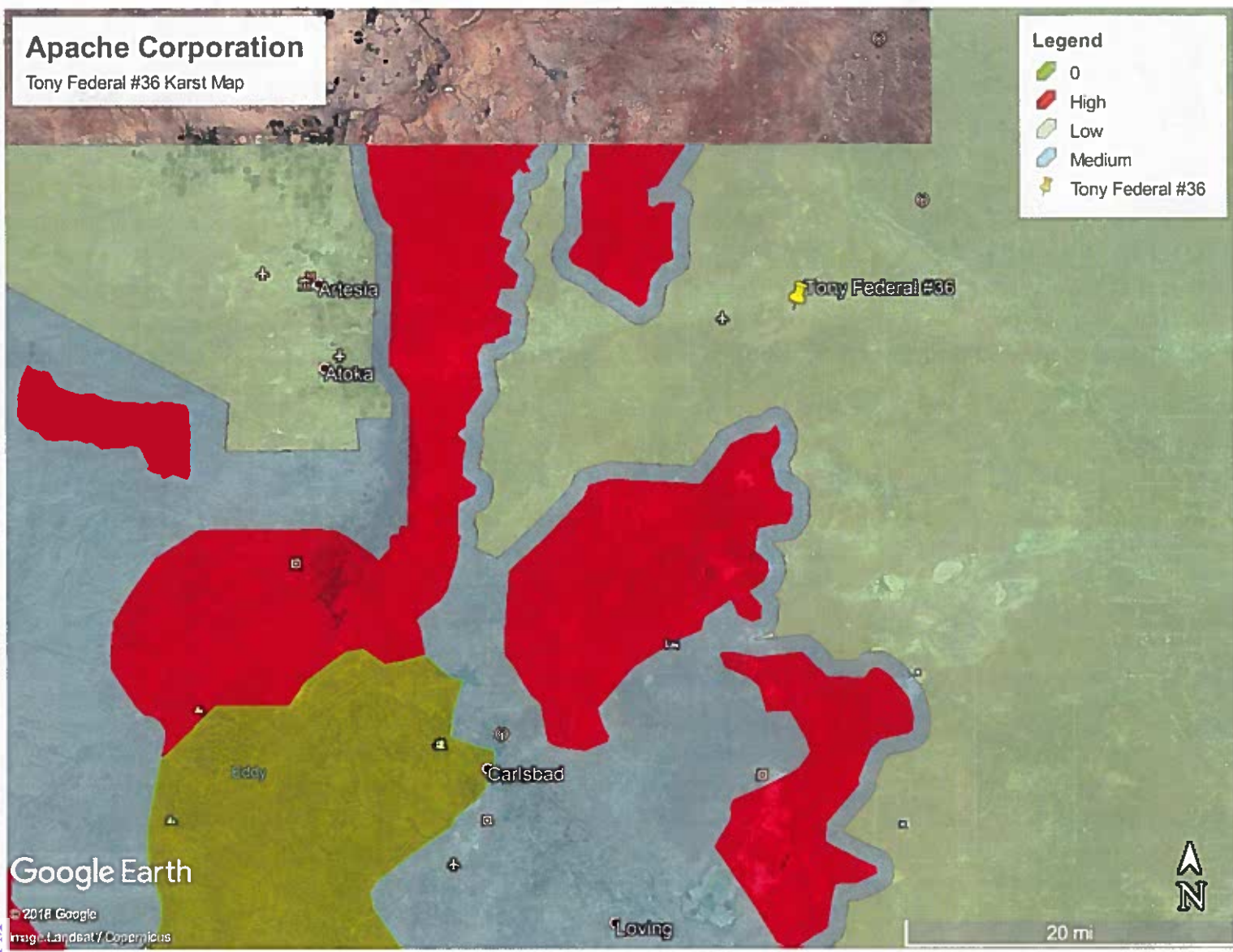
Northing (Y): 3631964.36

Radius: 5000

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.

8/26/19 3:40 PM

WELLS WITH WELL LOG INFORMATION





District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 1689

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 1689
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Borderline data set but old	7/1/2021