

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

RE: 1RP-4172 NMGSAU 1815

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 February 27, 2014. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2014 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

Larry Baker Environmental Technician SR. Apache Corporation

Attachment: Closure Report Dated September 16, 2020



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

September 16, 2020

Re: NMGSAU 1815 Case: 1RP-4172

On 2/27/2014 a release occurred due to a contractor for another company was ditching to install a new gas line and struck the fiberglass line resulting in the loss of fluid. The fluid from the release was all contained in the ditch line except for a small area of overspray. The release (GPS: 32.596817, -103.32373) is located south of Monument, New Mexico in unit letter O section 2 township 20S range 36E. According to the NMOSE wells of record the nearest well suggest ground water beneath the release is 30 feet.

Due to the release in an area with shallow ground water and the circumstances of a new gas line being installed in the ditch line the remediation was started immediately. A vacuum truck was dispatched to pick up the fluid in the ditch line. The wet area was excavated to 14.5 feet below ground surface. Vertical delineation was conducted on the east side of the ditch line utilizing a track-hoe. Samples were collected in one foot intervals to a depth of 20 feet and all samples were submitted to a commercial laboratory for analysis of chloride. Laboratory results were below 250 chloride at 19 feet. A 3 point bottom composite was submitted to a commercial laboratory for analysis of chloride and TPH. A meeting was scheduled with OCD District 1 representative and after reviewing the data agreed to a clay liner being installed at a depth of 14.5 feet below ground surface. All excavated material was hauled to an OCD approved facility. The excavation was backfilled with clean imported soil to ground surface.

Apache Corporation assumption was that this matter was resolved with the submittal of a C-141 that was checked initial and final. Enclosed is data that hopefully resolves the issue and Apache Corporation respectfully request closure of event # 1RP-4172

Enclosed: C-141, Groundwater data, Maps, Sample Data, Laboratory Results, Emails, and Photos.

Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 575-393-7106

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Page 3

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>30</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔽 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)?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 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?	🗌 Yes 🗹 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔽 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗹 Yes 🗌 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
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- **Z** 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.

eceived by OCD: 9/16/	2020 12:54:33 PM State of New Mexic	20	Incident ID	Page 5 of
Page 4	Oil Conservation Divi	sion	District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: Larry Signature:	nformation given above is true and complete are required to report and/or file certain relea onment. The acceptance of a C-141 report b stigate and remediate contamination that pos se of a C-141 report does not relieve the oper Baker my Baker r@apachecorp.com	ase notifications and perform of by the OCD does not relieve th e a threat to groundwater, surf ator of responsibility for comp	corrective actions for releas ne operator of liability shou face water, human health or pliance with any other feder nental Tech SR.	ses which may endanger Id their operations have r the environment. In
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Page 6 of 24

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.

<u>Closure Report Attachment Checklist</u> : Each of the following i	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Larry Baker	Title: Environmental Tech SR.
Printed Name: Larry Baker Signature: Larry Baker	Date: 9/16/2020 Telephone: 432-631-6982
email: <u>larry.baker@apachecorp.com</u>	Telephone: 432-631-6982
OCD Only	
Received by:	Date:
remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	
Closure Approved by:	Date: <u>1/24/2023</u>
Printed Name: Brittany Hall	



Page 7 of 24

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USDA FSA, GeoEye, Maxar | Esri, HERE, iPC | Esri, HERE, Garmin, iPC

New Mexico Office of the State Engineer **Point of Diversion Summary**

	(quarters are 1=NW (quarters are smalle	· · · · · · · · · · · · · · · · · · ·	NAD83 UTM in meters)	
Well Tag POD Number	Q64 Q16 Q4 Se	e , (X Y	
NA L 14378 POD6	1 4 3 0	e	658461 3607926	
Driller License: 1757	Driller Company:	ENVIROTECH	H DRILLING SERVIC	ES LLC
Driller Name: DAVID DRAYBUC	CK			
Drill Start Date: 10/03/2018	Drill Finish Date:	10/03/2018	Plug Date:	
Log File Date: 01/08/2019	PCW Rev Date:		Source:	Shallow
Pump Type:	Pipe Discharge Siz	e:	Estimated Yield:	
Casing Size: 4.00	Depth Well:	45 feet	Depth Water:	30 feet
Water Bearing Stratification	ons: Top	Bottom Descripti	on	
	30	35 Other/Un	known	
	35	40 Other/Un	known	
	40	45 Other/Un	known	
Casing Perfora	tions: Top	Bottom		
	30	45		

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.

9/16/20 9:26 AM

POINT OF DIVERSION SUMMARY



Sample	Sample ID	Depth	Chloride	GRO	DRO
Date					

		1		1	
2/28/2014	Vert 1	15'	800		
		16'	848		
		17'	800		
		18'	800		
		19'	112		
		20'	112		
2/28/2014	3Pt. Comp	14'	256	<10.0	<10.0



March 03, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: NMGSAU #1815

Enclosed are the results of analyses for samples received by the laboratory on 02/28/14 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425 02/28/2014 Received: 02/28/2014 Sampling Date: Reported: 03/03/2014 Sampling Type: Soil Project Name: NMGSAU #1815 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson Project Location: NOT GIVEN

Sample ID: 3 PT. COMP @ 14' (H400614-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/28/2014	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	83.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.1	% 63.6-15	4						

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 whatscever 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, which this 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 Londardine.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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. Keine

Celey D. Keene, Lab Director/Quality Manager

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Alerman@uce-ecs.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Ajones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; weinheimer@rice-ecs.com	conder@i	s.com h	ice-ec	in@ri		n; jka	d.con	er@r	Kjones@riceswd.com; jkam Lweinheimer@rice-ecs.com		dhav.		3 		20	<u>S</u>	-	· •.	ē.	Time:		
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Page 4 of 4

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Received by OCD: 9/16/2020 12:54:33 PM

Page 14 of 24



March 03, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: NMGSAU #1815

Enclosed are the results of analyses for samples received by the laboratory on 02/28/14 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

		APACHE - BRUCE BA P. O. BOX EUNICE N	KER 1849		
		Fax To:	394-2425		
Received:	02/28/2014			Sampling Date:	02/28/2014
Reported:	03/03/2014			Sampling Type:	Soil
Project Name:	NMGSAU #1815			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN				

Sample ID: VERT 1 @ 15' (H400615-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/28/2014	ND	416	104	400	0.00	

Sample ID: VERT 1 @ 16' (H400615-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	02/28/2014	ND	416	104	400	0.00	

Sample ID: VERT 1 @ 17' (H400615-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/28/2014	ND	416	104	400	0.00	

Sample ID: VERT 1 @ 18' (H400615-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/28/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		APACHE - I BRUCE BAI P. O. BOX EUNICE NI	KER 1849		
		Fax To:	394-2425		
Received:	02/28/2014			Sampling Date:	02/28/2014
Reported:	03/03/2014			Sampling Type:	Soil
Project Name:	NMGSAU #1815			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN				

Sample ID: VERT 1 @ 19' (H400615-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/28/2014	ND	416	104	400	0.00	

Sample ID: VERT 1 @ 20' (H400615-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/28/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 whatscever 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 those of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor 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. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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Page 19 of 24





Wed 3/5/2014 9:27 AM

Baker, Larry

update on the NMGSAU 1518

To 🗌 Phillips, Lu

Mr. Phillips,

I met with NMOCD and Jeff Leking agreed to the installation of a clay liner at 14.5 feet and backfill with clean. I cut a deal with Watson that Apache would pay for disposal and imported soil, labs, and sampling, and he would not charge for the use of his equipment. Thanks and have a good day.

Bruce Baker

Page 20 of 24



Mr. Leking

Attached is the Initial and Final C-141 for the NMGSAU 1815. Please let me know if this works thanks and have a good day.

Bruce Baker Apache Corporation Environmental Technician Eunice District Email: <u>larry.baker@apachecorp.com</u> Cell: (432) 631-6982

-----Original Message-----From: <u>ricoh.service@apachecorp.com</u> [<u>mailto:ricoh.service@apachecorp.com</u>] Sent: Thursday, March 13, 2014 2:53 PM Released to Imaging: 1/24/2023 7:20:52 AM





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

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	10225
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
bhall	None	1/24/2023

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Action 10225