

# **Termination Report**

November 28, 2016

Re: Hawk B 3 # 9 API# 30-025-06501 Case # 1RP-3572

To: Kristin Lynch

Environmental Specialist-New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

On June 15<sup>th</sup>, 2015 an amendment to the path forward was submitted to NMOCD and BLM and approved by NMOCD and BLM on July 24, 2015. The path forward stated that a liner would be installed a 20 mil liner at 22 feet below ground surface. The remaining backfill that was submitted in the amended path forward was utilized to backfill above the liner and the 10 feet excavation south of the 22 feet excavation to a depth of 4 feet below ground surface. The northern portion of the release area will be excavated to a depth of 4 feet below ground surface and discrete wall samples will be taken and sent to a commercial laboratory for analysis of chloride and volatile organic compounds. At 4 feet below ground surface a 20 mil reinforced liner would be installed and properly seated and the remaining backfill with clean imported soil and contoured to the surrounding location. The site will be seeded with a blend of native vegetation.

On July 28 through July 30, 2015 a 20 mil reinforced liner was installed at 22 feet and backfilled to 4 feet below ground surface in the 22 feet excavation and 10 feet excavation. The area to the north was excavated to a depth of 4 feet and discrete wall samples were collected and submitted to a commercial laboratory for analysis.

On November 13, 2015 a 20 mil reinforced liner was installed and properly seated at 4 feet below ground surface and backfilled with clean imported soil and contoured to the surrounding location. On April 1, 2016 the site was seeded with a blend of native vegetation.

Enclosed: Initial C-141, Amended Path Forward, Approvals of Path Forward, Laboratory analysis for wall samples, Photos, and final C-141.

Apache has completed the approved amended path forward and respectfully request termination of release.

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 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 I Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notifi	cation	and Co	rrective A	ction			_	
				•		OPERA'	ror	🗵 Init	ial Report		Final Report	
Name of Co						Contact Bri					(a)	
Address: 2. Facility Nar		rland Blvd I	lobbs, Ni	M 88240			No. (432) 631-6 e: Oil Well	982			F)	
							e: Oil Well					
Surface Ow	ner Farme	r Raymond		Mineral	Owner I	BLM		API#	30-025-0650	1		
					OITA	OF RE	LEASE					
Unit Letter R	Section 3	Township 21S	Range 37E	Feet from the 1650'	North/ FSL	South Line	Feet from the 1650'	East/West Line FEL	County Lea			
	ji					_	W103.14773					
Type of Rele	ase: oil and	produced wa	ter	IVA	IUKE	OF REL	Release 26 barr	rels of   Volume	Recovered 25	horre	le of oil and	
		-				oil and 54	barrels of water	50 barre	s of water		is or on and	
Source of Re	lease: Flow	line				Date and H 2/16/2015	our of Occurrenc	e Date and 2/16/201	Hour of Disco	усгу		
Was Immedia	ate Notice C		Yes 🗌	No 🔲 Not F	Required	If YES, To	Whom?	2/10/201	3			
By Whom?						Date and H	our 2/17/2015 vi	a email				
Was a Water	course Read		V 57	N. (		CONTROL CONTROL OF THE STATE	lume Impacting t	lic Watercourse.				
If a Watercourse was Impacted, Describe Fully.*  By OCD; Dr. Oberding at 3:04 pm, Mar 23, 2015												
Describe Cau The flow line				Taken.*			k-up standing flui		, 2015			
Describe Area The entire rel				en.* D'X3' bell hole i	in the past	lure.	7.46.16	22.307				
regulations al public health should their o	l operators or the environment in the environment in a ment. In a	are required to connent. The ave failed to a ddition, NMO	report an acceptanc dequately CD accep	d/or file certain c of a C-141 rep investigate and	release no ort by the remediate	tifications an NMOCD ma contamination	knowledge and und uperform correct irked as "Final Re on that pose a thre the operator of r	tive actions for re eport" does not re at to ground water	cases which m ieve the operat r. surface wate	ay end or of a	danger liability nan health	
	۸	0 1		West Web.			OIL CONS	ERVATION	DIVISION	4		
Signature:	Bruce	c Back	<i>د</i> ۱							-		
Printed Name	: Bruce Ba	ker	(90)	190 1510	/	Approved by	Environmental Sp	occialist	-	7	-P40	
Title: Environ	nmental Te	chnician				Approval Date	03/23/2015	Expiration	Datet na	23/20	15	
E-mail Addre	ss: larry.ba	ker@apachec	orp.com			Conditions of Site sam	Approval: ples required, Del	ineate and	Attached [			
Date: 3/23/2	015	. 1017	Phone	: (432) 631-698	2		e are as per NMC		1RP-3572		87,3	

Attach Additional Sheets If Necessary

nTO1508254498



CONSULTING & SAFETY

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

June 15th, 2015

### Kellie Jones

Environmental Specialist— New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

> RE: Amended Path Forward Apache Hawk B-3 #9 (1RP-3572) UL/Q sec. 3 T21S R37E API No. 30-025-06501

Ms. Jones:

A Path Forward was submitted to NMOCD and BLM on April 30<sup>th</sup>, 2015. NMOCD approved the Path Forward on April 30<sup>th</sup>, 2015, and BLM approved the Path Forward on May 7<sup>th</sup>, 2015.

The Path Forward stated that the bell hole is located under a series of high line electric lines, negating the possibility of installing soil bores at the site. Therefore, in order to hinder the movement of residual chlorides through the vadose zone, the area around Vertical 1 would be excavated to a depth of 13 ft bgs. Once the excavation was completed, wall samples would be taken and a 20-mil reinforced liner would be installed and properly seated at the base of the excavation. All excavated soil would be taken to a NMOCD approved facility for disposal. The excavation would then be backfilled with imported soil.

### Addendum to the Path Forward

The bell hole has been excavated to a depth of 22 ft, and the area to the south of the bell hole has been excavated to a depth of 10 ft bgs. The excavated soil was evaluated for use as backfill, and soil that did not meet regulatory standards was taken to a NMOCD facility for disposal. The remaining soil was blended on site, and a sample of the blended soil was taken to a commercial laboratory for analyses. The blended soil returned a chloride reading of 656 mg/kg, a GRO reading of non-detect, a DRO reading of 464 mg/kg and a total BTEX reading of non-detect.

An additional vertical, Vertical 4, was installed north of the bell hole to determine the extent of contamination in this area. The vertical was installed to a depth of 4 ft bgs, and that sample was taken to a commercial laboratory for analyses. The 4 ft sample returned a chloride reading of 1,170 mg/kg with GRO and DRO readings of non-detect.

Based on these sampling data, a 20-mil, reinforced liner will be installed within the 22 ft bgs excavation. The 22 ft bgs and 10 ft bgs excavations will then be backfilled with the blended soil to 4 ft bgs. The northern portion of the release area will be excavated to a depth of 4 ft bgs. Once the entire release area reaches 4 ft bgs, discrete wall samples will be taken and sent to a

commercial laboratory. The samples will be tested for chlorides and volatile organic compounds to confirm that the walls return readings below regulatory standards.

At 4 ft bgs, a 20-mil reinforced poly liner will be installed and properly seated throughout the base of the excavation. The excavation will be backfilled with clean, imported soil as needed. The release area will be contoured to the surrounding location, and the site will be seeded with a blend of native vegetation.

Once these actions have been completed, a Termination Request will be submitted to NMOCD and BLM with a request for 'remediation termination' and site closure.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

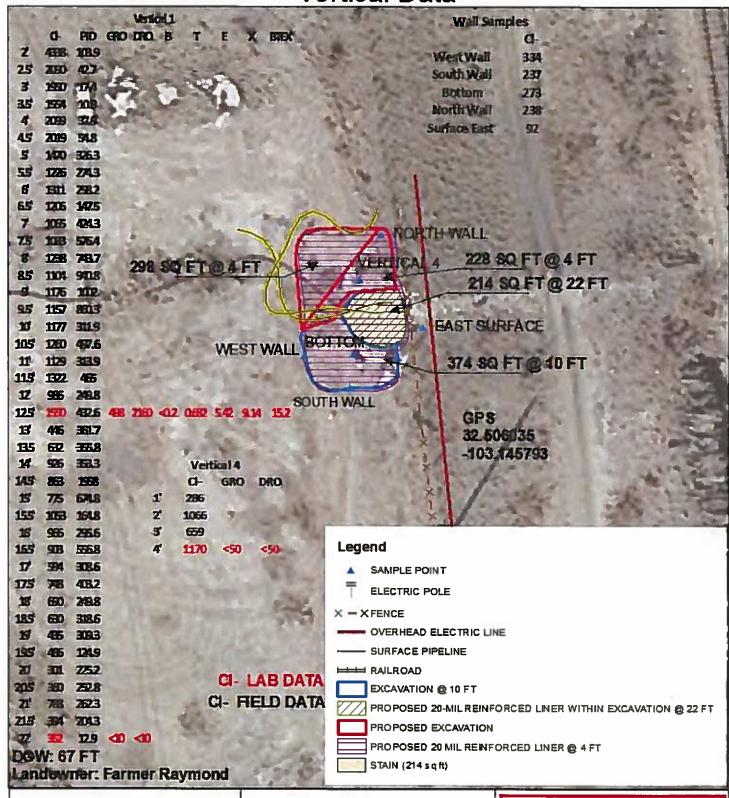
Lara Weinheimer Project Scientist

JC.W.

RECS

(575) 441-0431

# **Vertical Data**





# APACHE HAWK B-3 #9

NMOCD Case #: 1RP-3572

LEGALS: UL/ Q SEC. 3 T-21-S R-37-E LEA COUNTY, NM Underground facilities are spatially projected and need to be field verified.

0 10 20 HHH Feet

Drawing date: 5/29/15, 6/1 & 9/15 Drafted by: L. Weinheimer, T. Grieco





May 28, 2015

**BRUCE BAKER** 

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK B -3 #9

Enclosed are the results of analyses for samples received by the laboratory on 05/27/15 16:34.

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 <a href="https://www.tceq.texas.qov/field/qa/lab">www.tceq.texas.qov/field/qa/lab</a> accredited 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.

Celeg D. Keene

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



### Analytical Results For:

**APACHE CORP - HOBBS BRUCE BAKER** 

2350 W. MARLAND BLVD. **HOBBS NM, 88240** 

Fax To:

(575) 393-2432

Received:

05/27/2015

Reported:

05/28/2015

Project Name: Project Number: HAWK B-3 #9 NONE GIVEN

Project Location:

Analyte

HAWK B-3 #9

Sampling Date:

05/27/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: VERT 4 @ 4' (H501332-01)

Chloride, SM4500CI-B

mg/kg

Result

<50.0

Analyzed By: AP

True Value QC

RPD Qualifier

Chloride

1170

16.0

108

% Recovery

% Recovery

92.9

102

400

True Value QC

200

200

RPD

0.301

0.397

**TPH 8015M** 

mg/kg Result Reporting Limit

Reporting Limit

50.0

50.0

05/28/2015 Analyzed By: MS

Analyzed

05/28/2015

05/28/2015

Analyzed

ND

Method Blank

ND

ND

Method Blank

432

В\$

BS

186

203

3.77

Qualifier

GRO C6-C10

DRO >C10-C28

Analyte

<50.0

47.2-157

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 93.6% 134%

52,1-176

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for any claim entang, whether based in contract or tort, shall be invited to the amount paid by client for analyses. All clients, including those for neglegence any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty [30] days after competition of the applicable service. In no event shall Cardinal be table for incidental or consequential dam including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiance, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether claim is based upon any of the above stated reasons or otherwise, Results restore only to the semples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratomes.

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

o: (575) 393-2432

Received:

05/27/2015

Reported:

05/28/2015

Project Name:

HAWK B-3 #9 NONE GIVEN

Project Number: Project Location:

HAWK B-3 #9

Sampling Date:

05/27/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SPOIL PILE (H501332-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.051	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	0.096	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate 4-Bromofluorobenzene (PIC	119%	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/28/2015	ND	432	108	400	3.77	
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	<50.0	50.0	05/28/2015	ND	186	92.9	200	0.301	
DRO >C10-C28	464	50.0	05/28/2015	ND	203	102	200	0.397	
Surrogate: 1-Chlorooctane	93.69	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	151 %	52.1-17	6						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE. Liability and Damages. Cardinal's hability and client's exclusive remarky for any client arising, whether based in contract or tort, shall be lemted to the amount paid by cherk for analyses. All clients, encluding those for negligence and any other clause whitestoners shall be desired weight where whitest 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 dismages, including, without limitation, business incomptions, loss of use, or loss of profits incurred by client, its authoritaness, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client is based upon any of the above stated massions or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approach of Cardinal Laboratones.

Celengt trans

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



### **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 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

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE MOTE: Liability and Damages. Cardinal's Bability and client's exclusive remedy for any client arrang, whether based in contract or tort, shall be limited to the amount past by chent for analyses. All claims, including those for negligence and any other clause whatsoever shall be deemed waved 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 demandes, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors around out of or related to the performance of the services herisunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Returns relate only to the samples identified above. This report shall not be reproduced extryt in full with written approval of Cardinal Laboratomes.

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Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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 ARDINAL LABORATORIES

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miect Manager Dayor Kyle Norman	oman		P.O. #:	*		-							
Advance: 440 M Cain			Company:			_	_	SL	_	-			
	State: NM Zip: 88240	3240	Attn:		1	333	_	loi					
5.393.2967	ြက္က	8	Address:					nΑ					
	Project Owner:		City:		_	W	Н	/รเ					
			State:	:diZ	_		_	ior	S				
roject Location: HAUK B-3 #9	8-3 #9		Phone #:		inol	08 ∃T≀	92	16C	TD				
ampler Name:			Fax#:	Old Report	_		_	) E					
FOR LAB USE ONLY	.91	MATRIX	PRESERV	1		<b>4</b> T	T	let	_				
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Sumples taken 20 minutes beford brought in hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; Mores@rice-ecs.com; Iweinheimer@rice-ecs.com; cursanic@rice-ecs.com; @rice-ecs.com O Yes O No Add1 Fax #: company: larry.baker@apachecorp.com sedwards@rice-ecs.com environmental tech: email results: Phone Result: Fax Result: REMARKS: CHECKED BY: Sample Condition
Cool Integ Received By: Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

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

From:

Kyle Norman

To:

"Lara Weinheimer"

Subject:

FW: Apache Hawk B-3 #9 (1RP-3572) Addendum

Date:

Friday, July 24, 2015 1:39:17 PM

From: Jones, Kellie, EMNRD [mailto:Kellie.Jones@state.nm.us]

**Sent:** Friday, June 19, 2015 2:00 PM

To: Kyle Norman; Oberding, Tomas, EMNRD; Jeffery Robertson

Cc: 'Baker, Larry'

Subject: RE: Apache Hawk B-3 #9 (1RP-3572) Addendum

Kyle,

OCD conditionally approves the addendum. Please ensure BLM approval/concurrence.

I look forward to receiving the final report.

Have a great day!

Kellie Jones Environmental Specialist, District 1 Oil Conservation Division, EMNRD (575) 393-6161 ext. 111 575-370-3180 (emergency-cell) E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

### Please note:

- -The OCD is no longer granting "risk-based," or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed.
- -Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Kyle Norman [mailto:knorman@rice-ecs.com]

Sent: Monday, June 15, 2015 11:13 AM

To: Oberding, Tomas, EMNRD; Jones, Kellie, EMNRD; Jeffery Robertson

Cc: 'Baker, Larry'

Subject: Apache Hawk B-3 #9 (1RP-3572) Addendum

All,

Attached is the addendum to Hawk B-3 #9 (1RP-3572) for your review. We would like to move to closure. Let me know if you have any questions. Thanks

Kyle Norman Project Lead 419 W. Cain Hobbs NM 88240 Cell # (575)942-8542 Fax # (575)393-0293 From:

Kyle Norman

"Lara Weinheimer"

To: Subject:

FW: Apache Hawk B-3 #9 (1RP-3572) Addendum

Date:

Friday, July 24, 2015 1:39:28 PM

From: Robertson, Jeffery [mailto:jlrobertson@blm.gov]

Sent: Thursday, June 18, 2015 11:06 AM

To: Kyle Norman

Subject: Re: Apache Hawk B-3 #9 (1RP-3572) Addendum

This plan is approved as written by the Bureau of Land Management Carlsbad Field Office with the above listed conditions of approval. This plan still needs to be approved by OCD. BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and re mediate contamination that may pose a threat to groundwater, surface water, human health, or the environment, or if the location fails to reclaim properly. In such an event that location does not re vegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

# Teffery L. Robertson

BLM-CFO

Natural Resource Specialist Office: 575-234-2230 Cell: 575-706-1920 jlrobertson@blm.gov

On Mon, Jun 15, 2015 at 11:12 AM, Kyle Norman <a href="mailto:knorman@rice-ecs.com">knorman@rice-ecs.com</a> wrote: All,

Attached is the addendum to Hawk B-3 #9 (1RP-3572) for your review. We would like to move to closure. Let me know if you have any questions. Thanks

Kyle Norman Project Lead 419 W. Cain Hobbs NM 88240 Cell # (575)942-8542 Fax # (575)393-0293



August 05, 2015

**BRUCE BAKER** 

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK B-3 #9

Enclosed are the results of analyses for samples received by the laboratory on 07/30/15 13:55.

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 <a href="https://www.tceq.texas.gov/field/ga/lab-accred-certif.html">www.tceq.texas.gov/field/ga/lab-accred-certif.html</a>.

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.

Celeg D. Keine

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



### Analytical Results For:

**APACHE CORP - HOBBS BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

07/30/2015

Reported:

08/05/2015

Project Name: Project Number: HAWK B-3 #9 NONE GIVEN

Sampling Date:

07/30/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Judy Garcia

Project Location:

HAWK B-3 #9

### Sample ID: NORTH WALL (H501982-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	109	% 85 6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/03/2015	ND	400	100	400	3.92	
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	07/31/2015	NĐ	202	101	200	3.18	
DRO >C10-C28	<10.0	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	101	% 47.2-15	7			W. S. S. S.			
Surrogate: 1-Chlorooctadecane	109	% 52.1-17	<b>'</b> 6						

### Cardinal Laboratories

\*=Accredited Analyte

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Celego trees

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

07/30/2015

Reported:

08/05/2015

Project Name: Project Number: HAWK B -3 #9 NONE GIVEN

Project Location:

HAWK B-3 #9

Sampling Date:

07/30/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Judy Garcia

### Sample ID: WEST WALL (H501982-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	< 0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	109 9	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/03/2015	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	64.9	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	103 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	110 9	6 52,1-17	6						

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Celley & Krone

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 7



### Analytical Results For:

**APACHE CORP - HOBBS BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

07/30/2015

Reported:

08/05/2015

Project Name: Project Number: HAWK B-3 #9 NONE GIVEN

Project Location:

HAWK B-3 #9

Sampling Date:

07/30/2015

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Judy Garcia

### Sample ID: SOUTH WALL (H501982-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	113 9	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/03/2015	ND	400	100	400	3.92	
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	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	35.9	10.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	111 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	120 9	% 52.1-17	6						

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Celleng D. Konna

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

o: (575) 393-2432

Received:

07/30/2015

Reported:

08/05/2015

Project Name:

HAWK B-3 #9

Project Number:

NONE GIVEN

Project Location:

HAWK B-3 #9

Sampling Date:

07/30/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Judy Garcia

### Sample ID: EAST SURFACE (H501982-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	113 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/03/2015	ND	400	100	400	3.92	
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	<50.0	50.0	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	<50.0	50.0	07/31/2015	ND	182	91.0	200	4.59	
Surrogate: 1-Chlorooctane	101 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	1199	% 52.1-17	6						

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Calory & Kronne

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 7





ND

### **Notes and Definitions**

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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\*=Accredited Analyte

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Celego Home

Celey D. Keene, Lab Director/Quality Manager

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# RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Company Name:	Apache	Antide Comment	יייייייייייייייייייייייייייייייייייייי	\$ B		≥	SISATURE	IS REQUEST	
Project Manager:	Project Manager: Bruce Baker / Kyle Norman	No.	P.O. #:						
Address: 419 W Cain	Cain		Company:				าร		
City: Hobbs		State: NM Zip: 88240	Attn:		,		ior		
Phone #: 575-393-2967		Fax #: 575-393-0293	Address:				<u>An</u>		
Project #		Project Owner:	City:				S//		
Project Name:			State: Zip:				-		
Project Location:	サインス ワーン	40	Phone #:	orio	E	s 7	ati DS		
Sampler Name:			Fax #:				•		
ATHOREMENTAL		MATRIX	PRESERV. SAMPLING	CI			te		
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7	Est Suffee	611	7-30-15						
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Land Fall		The same	Influction			No A	odi Fex		
Relinquished By:	Z.	Racefred by	0	email results: //	Knorm	9 50	desin	rman @ basinenu . com	3
•		255				1	1	(	

company: larry.baker@apachecorp.com

Sampler - UPS - Bus - Other: Delivered By: (Circle One)



August 26, 2015

**BRUCE BAKER** 

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

**HOBBS, NM 88240** 

RE: HAWK B -3 #9

Enclosed are the results of analyses for samples received by the laboratory on 08/20/15 10:20.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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.

Celey D. Keens

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



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

08/20/2015

Reported:

Chloride

08/26/2015

Project Name:

HAWK B-3 #9

Project Number: Project Location:

NONE GIVEN HAWK B-3 #9

<16.0

16.0

Sampling Date:

08/20/2015

Sampling Type:

Soil

400

Sampling Condition:

\*\* (See Notes)

Sample Received By:

432

108

Judy Garcia

7.69

# Sample ID: SOUTH WALL (H502191-01)

Chionde, SM4SUUCI-B	mg/	/kg	Analyzi	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

08/21/2015

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\*=Accredited Analyte

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Celary D. Kenna

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



### **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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Cellery D. Kenne

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

191 East Marland, Hobbs, NM 88249 (676) 393-2328 FAX (676) 393-2476

	E 1	PLEASE HOTE: Looking and Consugers, Combusty bridly and chiefly is early-ear. All chies: including those for repliquence and any other causes verview, In no execut chief Counted ins boths for involvence or consequence.						I	Journ 4-16	3	5	Sou	Kull Hum  Kull Hum  Sample I.I	Kuld Hum  Kuld Hum  Sample I.	Kulik itumy  Kulik itumy  Sample I.I	Sample I.I	Kuta Huny Kuta Huny Sample I.I	Sample I.I
	Dela: Received By:	H						The second second second second	6///	G (G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	G (G)RAB OR (C)OMP.  CONTAINERS  GROUNDWATER  WASTEWATER  SOIL  OIL	G (G)RAB OR (C)OMP.  CONTAINERS  GROUNDWATER  WASTEWATER  SOIL  OIL	G (G)RAB OR (C)OMP	G (G)RAB OR (C)OMP	G (G)RAB OR (C)OMP  CONTAINERS  GROUNDWATER  WASTEWATER  SOIL  OIL	G (G)RAB OR (C)OMP	G (G)RAB OR (C)OMP  CONTAINERS  GROUNDWATER  WASTEWATER  SOIL  OIL	G (G)RAB OR (C)OMP  CONTAINERS  GROUNDWATER  WASTEWATER  SOIL  OIL
	den a land gan ou if he does name by	tend or last, stand he banded to the pension part careful by Cambrid with 25 days						9-22-8		SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  ACID/BASE:	SLUDGE OTHER:  ACID/BASE: ICE / COOL OTHER:  X	SLUDGE OTHER:  ACID/BASE: ICE / COOL OTHER:  V	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: V	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  V	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  V  Tax  Tax  Tax  Tax  Tax  Tax  Tax
Fax Result: (1) Yes (1) No REMARKS:		of pad by the church is the					1	8.47 X	ı		TUME			1				<b>1</b>
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Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Knormana Basn Env. com

Larry . B-ROT & aproxicosp. COM

Relinquished By:

# Apache Hawk B-3 # 9 Photo Page



Photo of Excavation



Photo of Liner Installed



Photo of Backfilling Excavation to 4 feet



**Photo of Padding Excavation** 



Photo of Backfilling 4 Foot Liner



Photo of Site Complete

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

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

		<del></del>	Rele	ase Notific	atio	n and Co	rrective A	ction	1			
ucey .				c		<b>OPERA</b>			☐ Initia	ıl Report	$\boxtimes$	Final Repo
Name of Co		Apache Corp rland Blvd F		M 88240	$\rightarrow$	Contact Bru	ice Baker Vo. (432) 631-6	002				
Facility Nat			10005, 141	VI 00240		Facility Typ		902				
Surface Ow	ner Farme	er Raymond		Mineral O					API No	. 30-025-0	6501	
				-		N OF REI	EASE		,			
Unit Letter R	Section 3	Township 21S	Range 37E	Feet from the 1650'		South Line	Feet from the 1650'	East/\ FEL	West Line	County Lea		
				Latitude N3	2.5051	7 Longitude	<u>W103.14773</u>		W			
				NAT	URE	OF RELI	EASE					
Type of Rele	ase: oil and	l produced wa	iter			Volume of oil 54 barre	Release 26 barro	els of	Volume F		25 barı	rels of oil and
Source of Re	lease: flow	- line		<del> </del>			our of Occurrenc	e		Hour of Dis	cover	у
Was Immedia	ate Notice (		Yes [	No □ Not Re	quired	If YES, To Dr. Oberdi	Whom? ng (NMOCD)					
By Whom?						_	our 2/17/2015 vi					
Was a Water	course Read		Yes ⊠	No		If YES, Vo	lume Impacting t	he Wat	ercourse.			
If a Watercourse was Impacted, Describe Fully.*												
		em and Reme The well was		n Taken.* d a vacuum truck v	was dis	patched to pic	k-up standing flu	id. The	flow line v	vas repaired	I	
delineated an backfilled wi April 1, 2015	d a correcti th blended the site wa	ve action plan material to a d	was subn lepth of 4 : a blend of	en.* The entire re nitted to NMOCD feet and place a se inative vegetation	and BL cond lin	.M on 6/15/20 ner at 4 feet a	15. The plan stated backfill the except the state of the property of the property of the property of the plan state o	ed that	a liner be in and conto	nstalled at a ur to the sur	depth round	of 22 feet and ing area. On
regulations al public health should their o or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The save failed to a	o report ar acceptant adequately OCD accep	is true and completed of a C-141 repoint investigate and retained for a C-141 repoint and retained of a C-141 repoint and retained of a C-141 repoint and retained of a C-141 retained of	elease noted the second the secon	otifications and e NMOCD made contaminati	nd perform correct arked as "Final Ro on that pose a thre	tive act eport" d eat to gi	ions for rele loes not reli round water	eases which eve the ope , surface wa	may e rator o ater, hi	endanger of liability uman health
Signature:	Bru	ce Bah	les				OIL CONS	SERV	ATION	DIVISIO	<u>N</u>	
Printed Name						Approved by	Environmental Sp	pecialis	t:			
Title: Enviro	nmental Te	chnician				Approval Dat	e:		Expiration 1	Date:		
E-mail Addre	ess: larry.ba	aker@apached	orp.com			Conditions of	Approval:			Attached		
Date: 11/28	/2016		Phone:	(432) 631-6982		w						