



2350 W Marland Blvd Hobbs, NM 88240

## **Deferment Request**

October 6, 2021

Re: Eugene Wood Lease  
Case # NRM2024530079

On 08/25/2020 a release occurred due to a failed phase arrestor. The release (GPS: 32.38021, -103.14785) is located south of Eunice, NM in unit letter G section 22 township 22S range 37E. A groundwater survey was conducted utilizing the NMOSE and USGS wells of record. The 3 nearest wells of record suggest groundwater is greater than 50 feet with the shallowest well 78 feet to groundwater.

The release area was hand excavated to a depths of 1 to 1.5 feet. Final 5 point bottom composite samples were collected not to exceed 500 square feet in accordance with the approved remediation plan. Final 5 point wall composite samples were collected not to exceed 200 square feet. All samples collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results indicated that B2 TPH was above table one standards for releases 51-100 feet to groundwater. Laboratory results indicated that B4 chloride and TPH were above table one standards for releases 51-100 feet to groundwater. B2 and B4 was further delineated to 2' utilizing a rock bar. Both 2' samples were submitted to a commercial laboratory for analysis of TPH and BTEX and B4 sample was also analysis for chloride. An attempt was made to further hand excavate B2 and B4 to a depth of 2' but was not successful do to the hardness of the soil. All excavated material was hauled to an OCD approved disposal facility. Micro-blaze was applied to the bottom of B2 and B4 and the entire excavation was backfilled with clean imported caliche to ground surface.

Apache Corporation respectfully request to defer the area around B2 and B4 to system abandonment.

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

Submitted by;

*Bruce Baker*

**Environmental Technician**

[larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com)

**Cell# 432-631-6982**

**Off# 575-393-7106**

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Larry Baker Title: Environmental Tech SR.  
Signature: Larry Baker Date: 10/26/2021  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

Received by: Chad Hensley Date: 11/15/2021

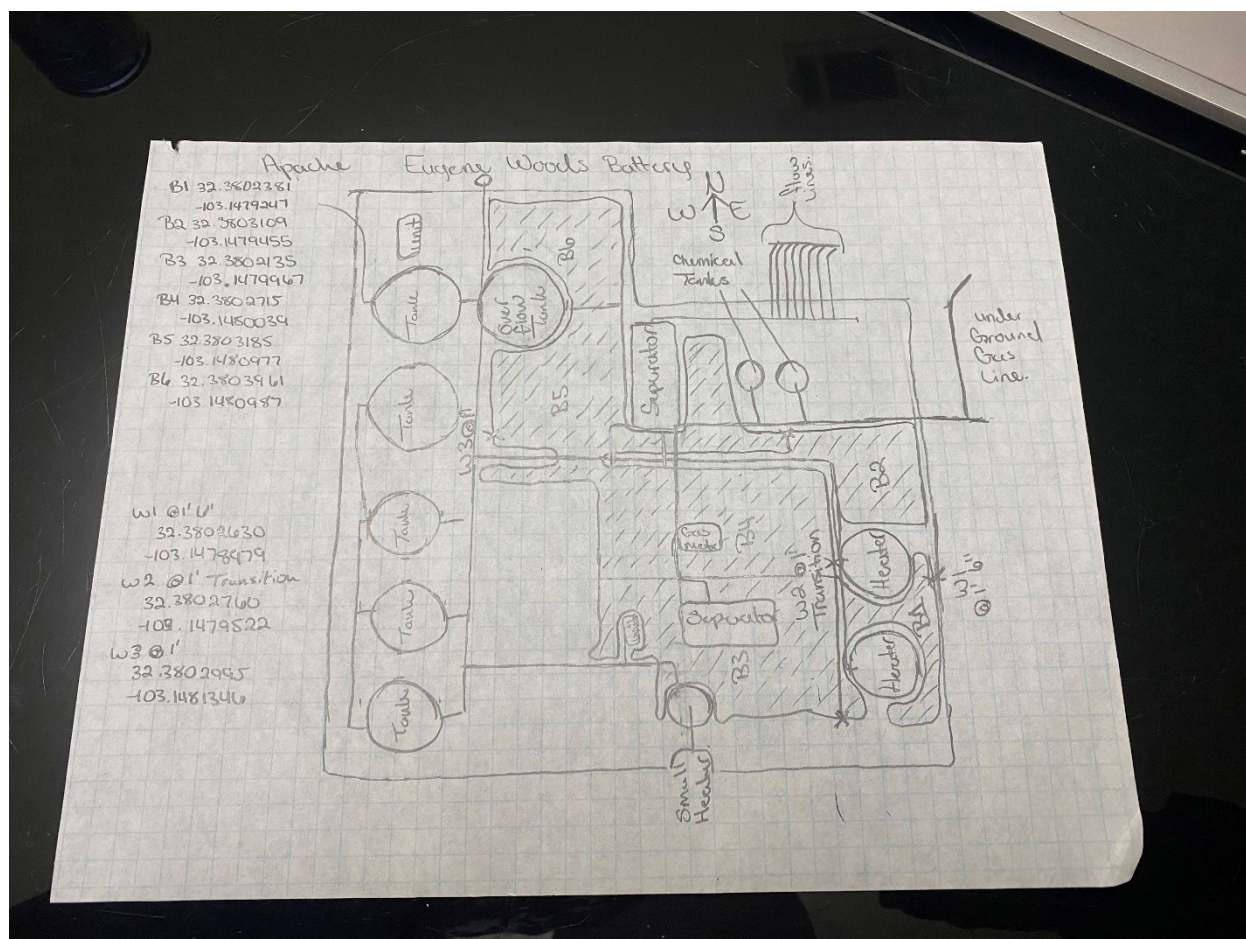
☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Chad Hensley Date: 11/15/2021









NEDU Injection Line

## Complete List

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
Final Bottom Samples												
8/27/2021	B1	1.5'	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	61.9	45.4	32.3802381, 103.1479247
9/16/2021	B2	1.5	5120	<0.050	<0.050	0.134	0.273	0.407	<100	4850	1800	32.3803109, 103.1479455
9/21/2021	B2	2'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	51.2	17.3	
9/16/2021	B3	1'	9600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	598	284	32.3802135, 103.1479967
9/16/2021	B4	1.5	10100	<0.050	0.062	0.415	1.040	1.51	116	5460	1870	32.3802715, 103.1480039
9/21/2021	B4	2'	704	<0.050	<0.050	<0.050	<0.150	<0.300	12.3	608	181	
9/16/2021	B5	1'	496	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	382	162	32.3803185, 103.1480977
9/16/2021	B6	1.5	432	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	303	86.1	32.3803961, 103.1480987
Final Wall Samples												
9/16/2021	W1	0-1.5'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	614	306	32.3802630, 103.1478979
9/16/2021	W2	0-1'	3000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	906	390	32.3802760, 103.1479522
9/16/2021	W3	0-1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	584	297	32.3802995, 103.1481346



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

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August 30, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EUGENE WOODS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/27/21 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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](http://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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 1 @ 16" (H212332-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/28/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.31	105	6.00	3.41	
Total BTX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/30/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	61.9	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	45.4	10.0	08/28/2021	ND					

Surrogate: 1-Chlorooctane 61.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 61.4 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

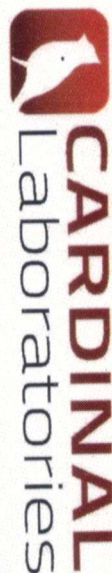
\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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September 17, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EUGENE WOODS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/16/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/16/2021	Sampling Date:	09/16/2021
Reported:	09/17/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EUGENE WOODS	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: W 1 @ 1'6" (H212592-01)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2021	ND	1.91	95.6	2.00	8.45	
Toluene*	<0.050	0.050	09/17/2021	ND	1.92	96.0	2.00	7.39	
Ethylbenzene*	<0.050	0.050	09/17/2021	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	09/17/2021	ND	5.75	95.8	6.00	4.73	
Total BTX	<0.300	0.300	09/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/17/2021	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	614	10.0	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	306	10.0	09/17/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.5 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/16/2021	Sampling Date:	09/16/2021
Reported:	09/17/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EUGENE WOODS	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: W 2 @ 1' (H212592-02)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2021	ND	1.91	95.6	2.00	8.45		
Toluene*	<0.050	0.050	09/17/2021	ND	1.92	96.0	2.00	7.39		
Ethylbenzene*	<0.050	0.050	09/17/2021	ND	1.87	93.7	2.00	5.72		
Total Xylenes*	<0.150	0.150	09/17/2021	ND	5.75	95.8	6.00	4.73		
Total BTX	<0.300	0.300	09/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	09/17/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	906	10.0	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	390	10.0	09/17/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.3 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/16/2021	Sampling Date:	09/16/2021
Reported:	09/17/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EUGENE WOODS	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: W 3 @ 1' (H212592-03)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2021	ND	1.91	95.6	2.00	8.45		
Toluene*	<0.050	0.050	09/17/2021	ND	1.92	96.0	2.00	7.39		
Ethylbenzene*	<0.050	0.050	09/17/2021	ND	1.87	93.7	2.00	5.72		
Total Xylenes*	<0.150	0.150	09/17/2021	ND	5.75	95.8	6.00	4.73		
Total BTX	<0.300	0.300	09/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/17/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	584	10.0	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	297	10.0	09/17/2021	ND					

Surrogate: 1-Chlorooctane 71.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.9 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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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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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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September 17, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EUGENE WOODS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/16/21 15:45.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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Sincerely,

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Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/16/2021	Sampling Date:	09/16/2021
Reported:	09/17/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EUGENE WOODS	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: B 2 @ 1'6" (H212593-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2021	ND	1.91	95.6	2.00	8.45	
Toluene*	<0.050	0.050	09/17/2021	ND	1.92	96.0	2.00	7.39	
Ethylbenzene*	<b>0.134</b>	0.050	09/17/2021	ND	1.87	93.7	2.00	5.72	
<b>Total Xylenes*</b>	<b>0.273</b>	0.150	09/17/2021	ND	5.75	95.8	6.00	4.73	
<b>Total BTX</b>	<b>0.407</b>	0.300	09/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5120</b>	16.0	09/17/2021	ND	416	104	400	0.00	

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*	<100	100	09/17/2021	ND	225	112	200	0.847		
<b>DRO &gt;C10-C28*</b>	<b>4850</b>	100	09/17/2021	ND	226	113	200	1.40		
<b>EXT DRO &gt;C28-C36</b>	<b>1800</b>	100	09/17/2021	ND						

Surrogate: 1-Chlorooctane 98.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 219 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/16/2021	Sampling Date:	09/16/2021
Reported:	09/17/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EUGENE WOODS	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: B 3 @ 1' (H212593-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2021	ND	1.91	95.6	2.00	8.45		
Toluene*	<0.050	0.050	09/17/2021	ND	1.92	96.0	2.00	7.39		
Ethylbenzene*	<0.050	0.050	09/17/2021	ND	1.87	93.7	2.00	5.72		
Total Xylenes*	<0.150	0.150	09/17/2021	ND	5.75	95.8	6.00	4.73		
Total BTEx	<0.300	0.300	09/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9600	16.0	09/17/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	598	10.0	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	284	10.0	09/17/2021	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/16/2021	Sampling Date:	09/16/2021
Reported:	09/17/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EUGENE WOODS	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: B 4 @ 1'6" (H212593-03)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2021	ND	1.91	95.6	2.00	8.45	
Toluene*	0.062	0.050	09/17/2021	ND	1.92	96.0	2.00	7.39	
Ethylbenzene*	0.415	0.050	09/17/2021	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	1.04	0.150	09/17/2021	ND	5.75	95.8	6.00	4.73	
Total BTX	1.51	0.300	09/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	09/17/2021	ND	416	104	400	0.00	

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*	116	100	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	5460	100	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	1870	100	09/17/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 223 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/16/2021	Sampling Date:	09/16/2021
Reported:	09/17/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EUGENE WOODS	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: B 5 @ 1' (H212593-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2021	ND	1.91	95.6	2.00	8.45		
Toluene*	<0.050	0.050	09/17/2021	ND	1.92	96.0	2.00	7.39		
Ethylbenzene*	<0.050	0.050	09/17/2021	ND	1.87	93.7	2.00	5.72		
Total Xylenes*	<0.150	0.150	09/17/2021	ND	5.75	95.8	6.00	4.73		
Total BTEx	<0.300	0.300	09/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	09/17/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	382	10.0	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	162	10.0	09/17/2021	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/16/2021	Sampling Date:	09/16/2021
Reported:	09/17/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EUGENE WOODS	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: B 5 @ 1'6" (H212593-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2021	ND	1.91	95.6	2.00	8.45	
Toluene*	<0.050	0.050	09/17/2021	ND	1.92	96.0	2.00	7.39	
Ethylbenzene*	<0.050	0.050	09/17/2021	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	09/17/2021	ND	5.75	95.8	6.00	4.73	
Total BTEx	<0.300	0.300	09/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/17/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	303	10.0	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	86.1	10.0	09/17/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.8 % 38.9-142

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\*=Accredited Analyte

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

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apacir Corporation</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Steve Baker</u>		Company:					
Address:		Attn:					
City:		Address:					
Phone #:		City:					
Fax #:		State:					
Project #:		Zip:					
Project Name: <u>EUGENE WOODS</u>		Phone #:					
Project Location: <u>EUGENE WOODS</u>		Fax #:					
Sampler Name: <u>Jeff Roun</u>		FOR LAB USE ONLY					
Lab I.D. <u>#121593</u>		Sample I.D.					
1 <u>Ba @ 1' 6"</u>		(G)RAB OR (C)OMP.					
2 <u>B3 @ 1'</u>		# CONTAINERS					
3 <u>B4 @ 1' 6"</u>		GROUNDWATER					
4 <u>B5 @ 1'</u>		WASTEWATER					
5 <u>B6 @ 1' 6"</u>		SOIL					
		OIL					
		SLUDGE					
		OTHER:					
		ACID/BASE:					
		ICE / COOL					
		OTHER:					
		DATE					
		TIME					
		CL					
		BTEx					
		EXT. TPH					

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Relinquished By: Jeff Roun Date: 9/16/21 Received By: Debi Henderson Date: 9/16/21

Relinquished By: Jeff Roun Date: 9/16/21 Received By: Debi Henderson Date: 9/16/21

Delivered By: (Circle One) Observed Temp. °C 5.2 Sample Condition Intact CHECKED BY: DR Turnaround Time: Standard Bacteria (only) Yes Sample Condition Intact Observed Temp. °C 5.2

Sampler - UPS - Bus - Other: Corrected Temp. °C No Yes Thermometer ID #113 Correction Factor None No Yes Corrected Temp. °C 5.2

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

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September 22, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EUGENE WOODS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/21/21 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/21/2021	Sampling Date:	09/21/2021
Reported:	09/22/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 2 @ 2' (H212625-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2021	ND	1.82	91.2	2.00	4.33	
Toluene*	<0.050	0.050	09/22/2021	ND	2.00	100	2.00	4.53	
Ethylbenzene*	<0.050	0.050	09/22/2021	ND	1.94	97.2	2.00	3.69	
Total Xylenes*	<0.150	0.150	09/22/2021	ND	5.84	97.3	6.00	3.75	
Total BTEX	<0.300	0.300	09/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2021	ND	216	108	200	3.95	
<b>DRO &gt;C10-C28*</b>	<b>51.2</b>	10.0	09/22/2021	ND	215	107	200	4.74	
<b>EXT DRO &gt;C28-C36</b>	<b>17.3</b>	10.0	09/22/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.0 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/21/2021	Sampling Date:	09/21/2021
Reported:	09/22/2021	Sampling Type:	Soil
Project Name:	EUGENE WOODS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 4 @ 2' (H212625-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2021	ND	1.82	91.2	2.00	4.33	
Toluene*	<0.050	0.050	09/22/2021	ND	2.00	100	2.00	4.53	
Ethylbenzene*	<0.050	0.050	09/22/2021	ND	1.94	97.2	2.00	3.69	
Total Xylenes*	<0.150	0.150	09/22/2021	ND	5.84	97.3	6.00	3.75	
Total BTX	<0.300	0.300	09/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	09/22/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.3	10.0	09/22/2021	ND	216	108	200	3.95	
DRO >C10-C28*	608	10.0	09/22/2021	ND	215	107	200	4.74	
EXT DRO >C28-C36	181	10.0	09/22/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.0 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

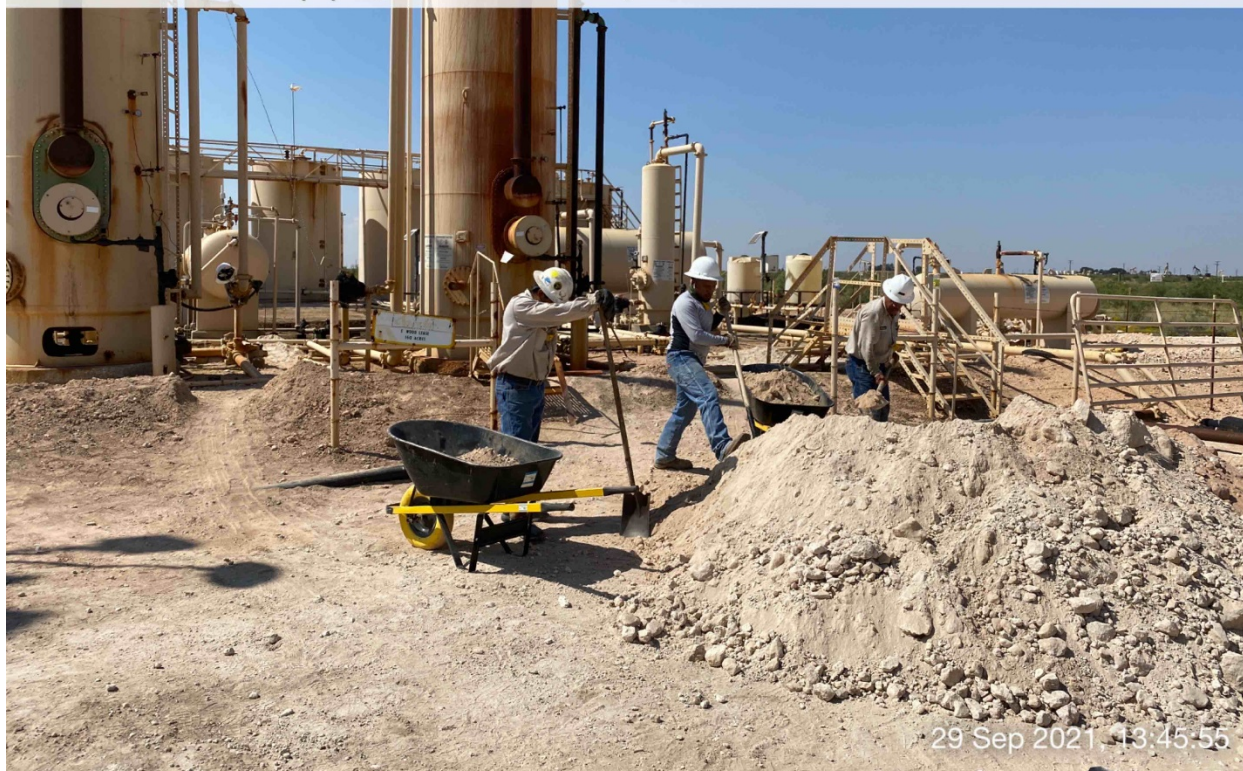
[illegible]





## East Elevation

☉ 293°W (T) ☉ 32°22'48"N, 103°8'52"W ±13ft ▲ 3367ft



**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 54553

**CONDITIONS**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 54553
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	Apache's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	11/15/2021