



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

June 15, 2023

Re: Hester 12 Battery
Case nAPP2308139864

Background:

On 3/17/2023 a release occurred due a fire tube gasket failed on heater treater resulting in oil to be released that ignited. The release (GPS: 32.581948, -103.105320) is located north of Eunice, New Mexico in unit letter N section 12 township 20S range 38E. A groundwater survey was conducted utilizing NMOSE wells of records. The survey suggests that groundwater beneath the release to be 42 feet.

Discrete vertical and horizontal grab samples were collected to delineate the release. SP1 and SP 4 were vertically delineated to depths of 1 and 3 feet. SP2 and SP3 was in light oil overspray on the vegetation. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the release area around SP1 be excavated to a depth of 1 foot. The area around SP4 will be excavated to a depth of 3 feet to the extent reasonable possible due to facility infrastructure in proximity. Final 5-point bottom and wall samples will be collected not to exceed 200 square feet. All samples collected will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated (360 yards) soil will be disposed of at an OCD approved disposal facility. Once Laboratory results are less than table one standards for releases less than 50 feet to groundwater the excavation will be backfilled with clean imported caliche to restore the pad. The affected vegetation from the overspray will be evaluated for presence of oil skim and if necessary, will be washed with Dawn dishwashing soap. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician
larry.baker@apachecorp.com

Office # 432-818-1654
Cell# 432-250-8384

Incident ID	NAPP2308139864
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>42</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2308139864
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
Signature: Larry Baker Date: 6/15/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Jocelyn Harimon Date: 06/15/2023

Incident ID	NAPP2308139864
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. Staff
Signature: Larry Baker Date: 6/15/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Jocelyn Harimon Date: 06/15/2023

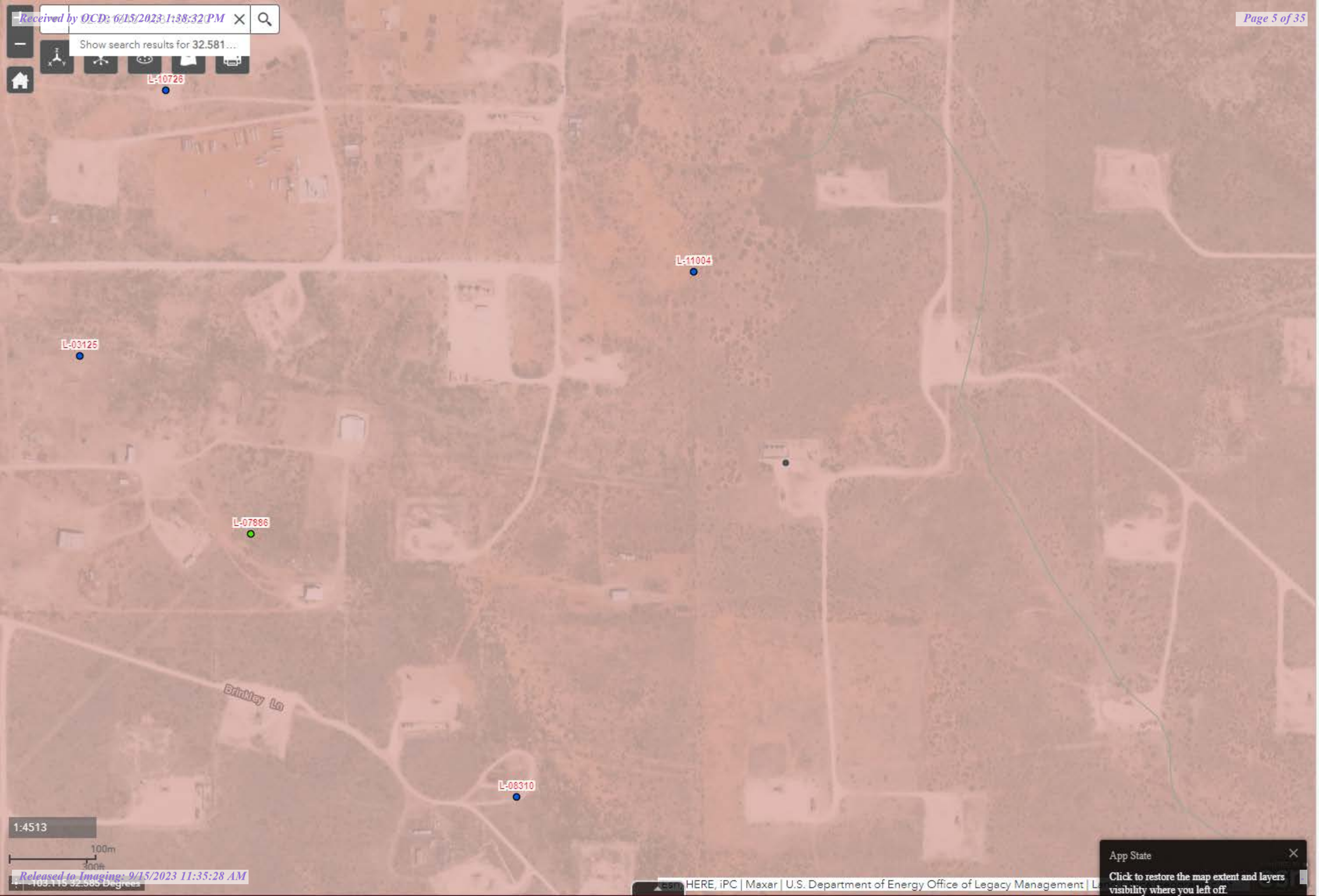
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Nelson Velaz Date: 0915/2023

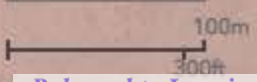
Remediation plan is approved as written. Apache has 90-days (December 14, 2023) to submit appropriate or final closure report.

Show search results for 32.581...





1:4513



App State X

Click to restore the map extent and layers visibility where you left off



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					
		(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng
	L 11004			3	12	20S	38E
						X	Y
						677729	3606744* <input type="checkbox"/>
Driller License:		1332		Driller Company:		ROOT, FRED D.	
Driller Name:		ROOT, FRED D.					
Drill Start Date:		11/10/1999		Drill Finish Date:		11/10/1999	
Log File Date:		11/30/1999		PCW Rev Date:			
Pump Type:				Pipe Discharge Size:			
Casing Size:		5.75		Depth Well:		60 feet	
				Depth Water:		46 feet	
Water Bearing Stratifications:		Top		Bottom		Description	
		23		58		Other/Unknown	
Casing Perforations:		Top		Bottom			
		30		60			

*UTM location was derived from PLSS - see Help

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

6/15/23 7:19 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	10049			4	12	20S	38E	678535	3606758* <input type="checkbox"/>

Driller License:	576	Driller Company:	STONE, T.J.	
Driller Name:	STONE, T.J.			
Drill Start Date:	12/20/1988	Drill Finish Date:	12/30/1988	Plug Date:
Log File Date:	01/05/1989	PCW Rev Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 25 GPM
Casing Size:	6.63	Depth Well:	90 feet	Depth Water: 50 feet

Water Bearing Stratifications:	Top	Bottom	Description
	50	85	Other/Unknown

Casing Perforations:	Top	Bottom
	70	90

*UTM location was derived from PLSS - see Help

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6/15/23 7:21 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	08310	1	1	13	20S	38E	677536	3606140*	<input type="checkbox"/>

Driller License:	657	Driller Company:	OLDAKER & SONS
Driller Name:	OLDAKER, GEORGE D.		
Drill Start Date:	07/09/1980	Drill Finish Date:	07/10/1980
Log File Date:	08/21/1980	PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	6.63	Depth Well:	65 feet
		Depth Water:	42 feet

Water Bearing Stratifications:	Top	Bottom	Description
	42	65	Other/Unknown

Casing Perforations:	Top	Bottom
	45	65

*UTM location was derived from PLSS - see Help

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6/15/23 7:20 AM

POINT OF DIVERSION SUMMARY

Coordinates

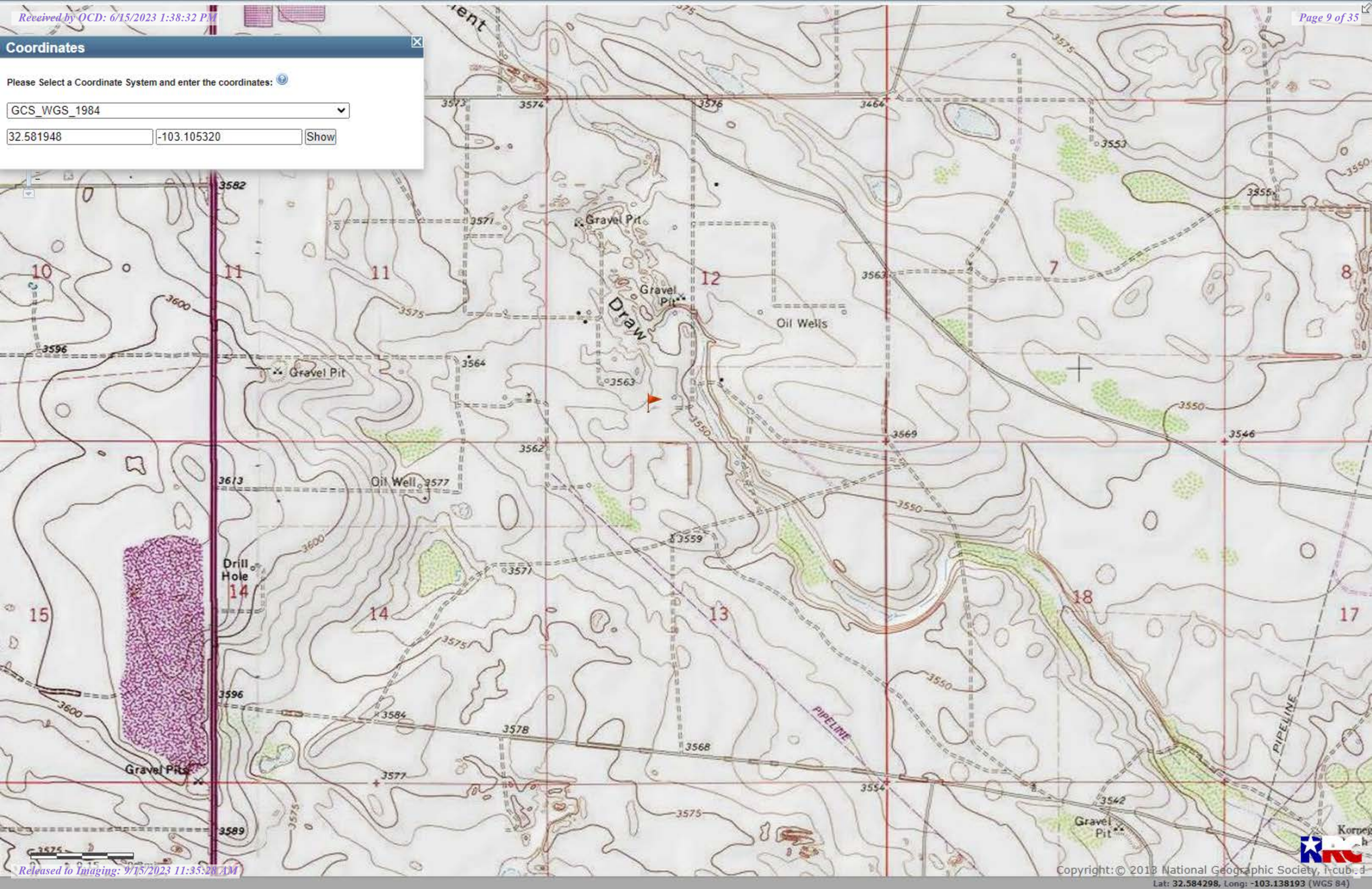
Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

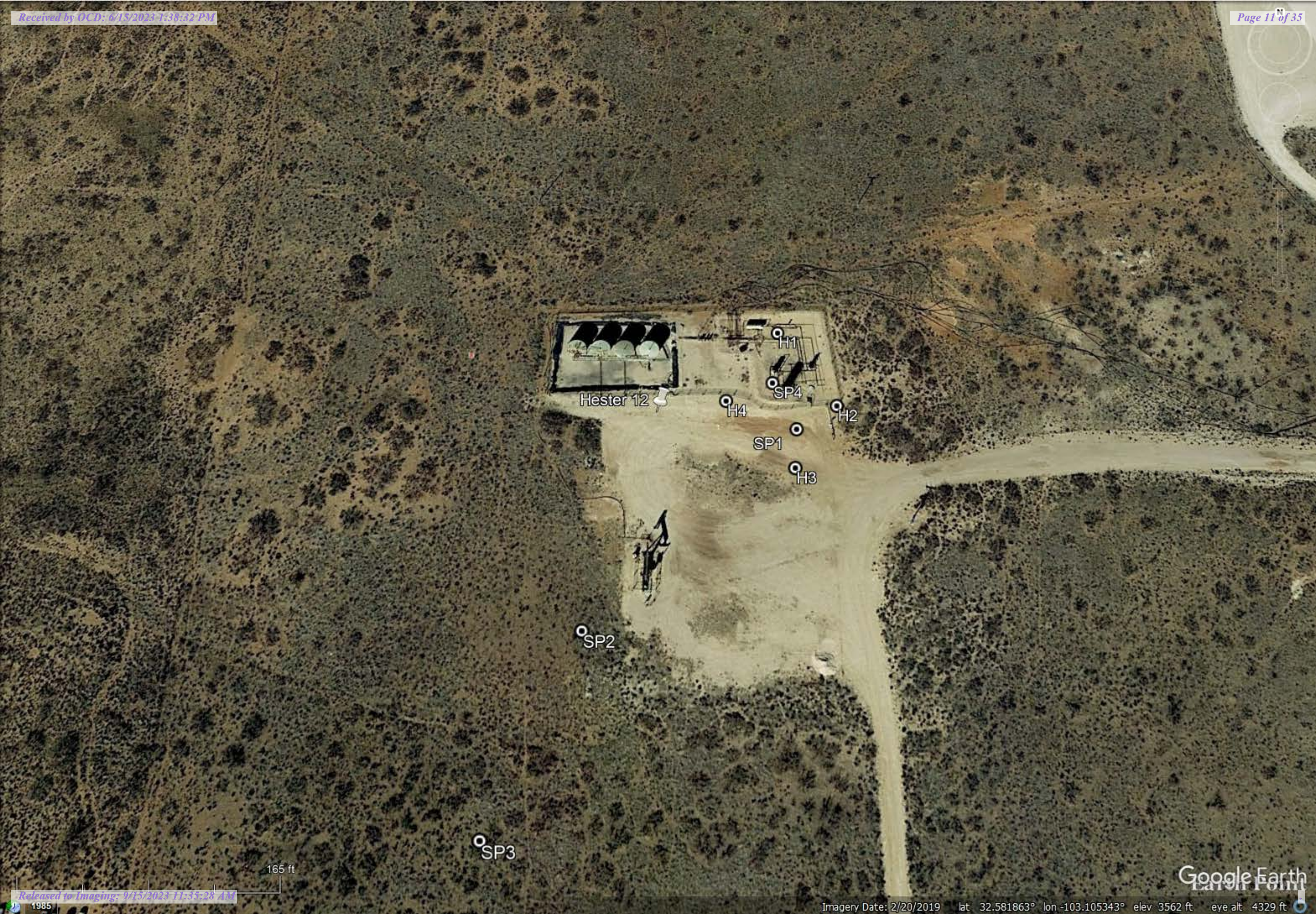
32.581948

-103.105320

Show



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Hester 12

H1

SP4

H4

SP1

H2

H3

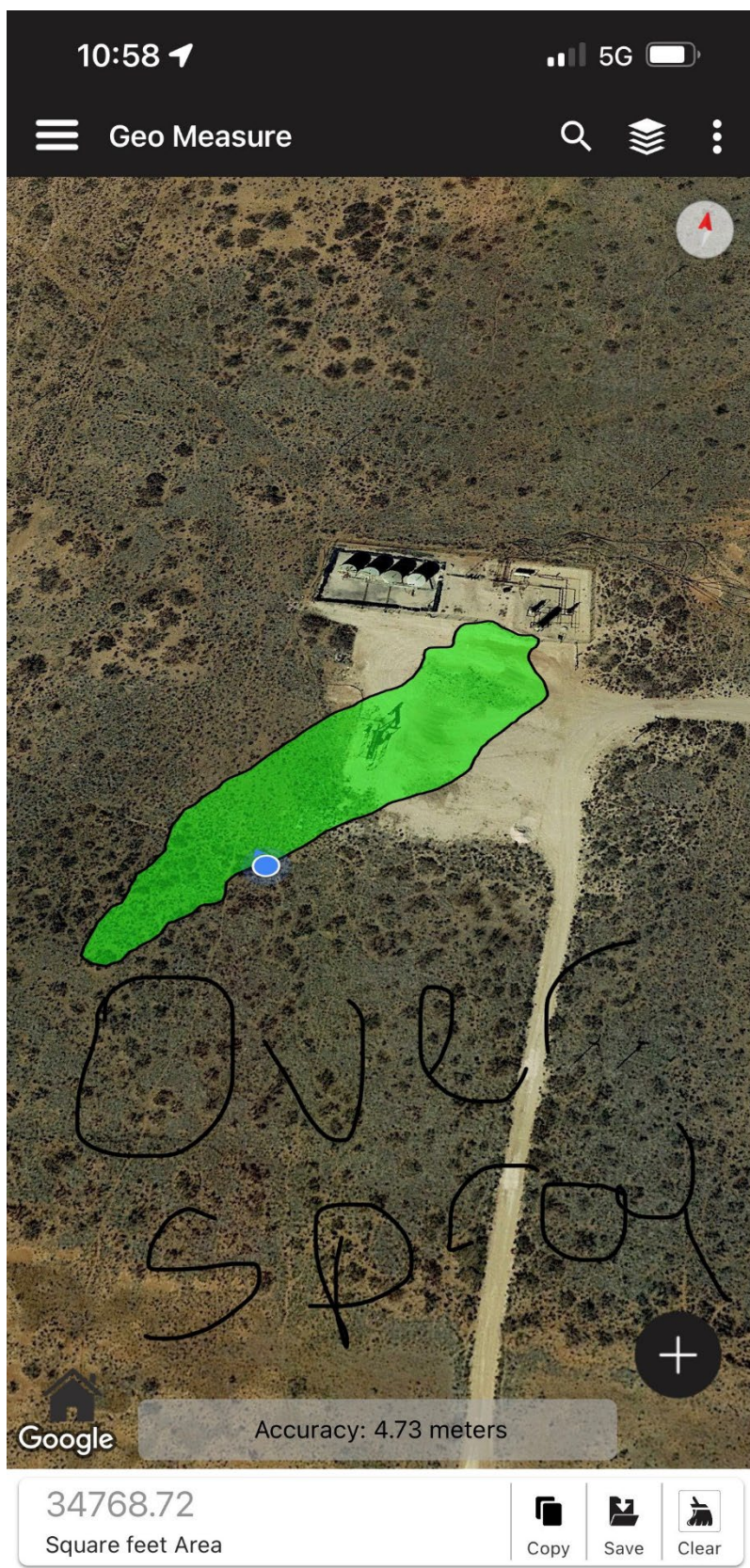
SP2

SP3

165 ft

Google Earth







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

May 02, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HESTER 12 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/26/23 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	04/26/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ SURFACE (H232038-01)

BTX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/28/2023	ND	1.91	95.3	2.00	10.7	
Toluene*	0.428	0.200	04/28/2023	ND	1.96	98.0	2.00	12.7	
Ethylbenzene*	3.00	0.200	04/28/2023	ND	1.91	95.6	2.00	12.5	
Total Xylenes*	14.1	0.600	04/28/2023	ND	5.94	99.0	6.00	12.2	
Total BTX	17.5	1.20	04/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	04/28/2023	ND	416	104	400	3.77	

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*	708	100	04/27/2023	ND	199	99.7	200	0.671	
DRO >C10-C28*	28400	100	04/27/2023	ND	188	93.9	200	0.459	
EXT DRO >C28-C36	6660	100	04/27/2023	ND					

Surrogate: 1-Chlorooctane 190 % 48.2-134

Surrogate: 1-Chlorooctadecane 678 % 49.1-148

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: 04/26/2023
 Reported: 05/02/2023
 Project Name: HESTER 12 TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H232038-02)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/28/2023	ND	1.91	95.3	2.00	10.7		
Toluene*	<0.050	0.050	04/28/2023	ND	1.96	98.0	2.00	12.7		
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	1.91	95.6	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/28/2023	ND	5.94	99.0	6.00	12.2		
Total BTX	<0.300	0.300	04/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/28/2023	ND	416	104	400	3.77		

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	04/27/2023	ND	199	99.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	188	93.9	200	0.459	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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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:	04/26/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ SURFACE (H232038-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/28/2023	ND	1.91	95.3	2.00	10.7		
Toluene*	<0.050	0.050	04/28/2023	ND	1.96	98.0	2.00	12.7		
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	1.91	95.6	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/28/2023	ND	5.94	99.0	6.00	12.2		
Total BTX	<0.300	0.300	04/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/28/2023	ND	416	104	400	3.77		

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	04/27/2023	ND	199	99.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	188	93.9	200	0.459	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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:	04/26/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ SURFACE (H232038-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.91	95.3	2.00	10.7	
Toluene*	<0.050	0.050	04/28/2023	ND	1.96	98.0	2.00	12.7	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	1.91	95.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	5.94	99.0	6.00	12.2	
Total BTEX	<0.300	0.300	04/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/28/2023	ND	416	104	400	3.77		

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	04/27/2023	ND	199	99.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	188	93.9	200	0.459	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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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

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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".

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

Page 7 of 7

Company Name: Apache						BILL TO								ANALYSIS REQUEST																	
Project Manager: B. Baker						P.O. #:																									
Address:						Company:																									
City: Hobbs State: NM Zip: 88240						Attn:																									
Phone #: Fax #:						Address:																									
Project #: Project Owner:						City:																									
Project Name:						State: Zip:																									
Project Location: Hester 12 Tank Battery						Phone #:																									
Sampler Name: Jose Queralte						Fax #:																									
FOR LAB USE ONLY				(G/RAB OR C) COMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																			
Lab I.D.	Sample I.D.					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME																	
H232038												<input checked="" type="checkbox"/>			c/	BTEX	SXTTPH														
1	SP1 surface	G	1					✓					4/26	10:04	-	-	-														
2	SP1 @ i'	G	1					✓					{	10:06	-	-	-														
3	SP2 surface	G	1					✓					}	10:08	-	-	-														
4	SP3 surface	G	1					✓					}	10:10	-	-	-														

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Jose Quispe</i>		Date: <i>4/26/23</i>		Received By: <i>Amara Aldaz</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Relinquished By:		Date:		Received By:		REMARKS: <i>E-mail Results</i>	
		Time: <i>1:10 pm</i>					
Delivered By: (Circle One)		Observed Temp. °C <i>4.7</i>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: (Initials) <i>JO</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>4.1</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor -0.6°C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	

~~FORM-006 R 3.3 07/18/22~~

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

May 24, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HESTER 12 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/22/23 10:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 4 SURFACE (H232572-01)

BTX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/22/2023	ND	2.22	111	2.00	0.782	
Toluene*	6.49	0.500	05/22/2023	ND	2.31	115	2.00	0.241	
Ethylbenzene*	11.9	0.500	05/22/2023	ND	2.21	110	2.00	0.0495	
Total Xylenes*	40.5	1.50	05/22/2023	ND	6.82	114	6.00	0.265	
Total BTX	58.9	3.00	05/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	05/22/2023	ND	432	108	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*	1480	100	05/22/2023	ND	197	98.4	200	0.393	QM-07, QR-03
DRO >C10-C28*	19400	100	05/22/2023	ND	188	93.8	200	0.219	QM-07
EXT DRO >C28-C36	9320	100	05/22/2023	ND					

Surrogate: 1-Chlorooctane 173 % 48.2-134

Surrogate: 1-Chlorooctadecane 782 % 49.1-148

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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: 05/22/2023
 Reported: 05/24/2023
 Project Name: HESTER 12 TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 05/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 4 1' (H232572-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2023	ND	2.22	111	2.00	0.782		
Toluene*	<0.050	0.050	05/22/2023	ND	2.31	115	2.00	0.241		
Ethylbenzene*	<0.050	0.050	05/22/2023	ND	2.21	110	2.00	0.0495		
Total Xylenes*	0.294	0.150	05/22/2023	ND	6.82	114	6.00	0.265		
Total BTEx	<0.300	0.300	05/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5730	16.0	05/22/2023	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*	13.9	10.0	05/22/2023	ND	197	98.4	200	0.393	
DRO >C10-C28*	205	10.0	05/22/2023	ND	188	93.8	200	0.219	
EXT DRO >C28-C36	47.2	10.0	05/22/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 4 2' (H232572-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2023	ND	2.22	111	2.00	0.782		
Toluene*	<0.050	0.050	05/22/2023	ND	2.31	115	2.00	0.241		
Ethylbenzene*	<0.050	0.050	05/22/2023	ND	2.21	110	2.00	0.0495		
Total Xylenes*	<0.150	0.150	05/22/2023	ND	6.82	114	6.00	0.265		
Total BTEx	<0.300	0.300	05/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/22/2023	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*	<10.0	10.0	05/22/2023	ND	197	98.4	200	0.393	
DRO >C10-C28*	228	10.0	05/22/2023	ND	188	93.8	200	0.219	
EXT DRO >C28-C36	53.9	10.0	05/22/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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: 05/22/2023
 Reported: 05/24/2023
 Project Name: HESTER 12 TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 05/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 4 3' (H232572-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2023	ND	2.22	111	2.00	0.782		
Toluene*	<0.050	0.050	05/22/2023	ND	2.31	115	2.00	0.241		
Ethylbenzene*	<0.050	0.050	05/22/2023	ND	2.21	110	2.00	0.0495		
Total Xylenes*	<0.150	0.150	05/22/2023	ND	6.82	114	6.00	0.265		
Total BTEX	<0.300	0.300	05/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/22/2023	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*	<10.0	10.0	05/22/2023	ND	197	98.4	200	0.393	
DRO >C10-C28*	36.0	10.0	05/22/2023	ND	188	93.8	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	05/22/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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A handwritten signature in black ink, appearing to read "C. 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]

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client; its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Jose Quetzada</i>		Date: <i>5/22/23</i>		Received By: <i>S. Rodriguez</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Relinquished By:		Date:		Received By:		REMARKS: <i>BS - Mail Results</i>	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C <i>5.8</i>		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/>		CHECKED BY: (Initials) <i>SR</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>5.2</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor -0.6°C	
						Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	



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

June 13, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HESTER 12 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/08/23 15:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/13/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 1 (H232950-01)

BTEx 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.514	
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/09/2023	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/13/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 2 (H232950-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/13/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 3 (H232950-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/13/2023	Sampling Type:	Soil
Project Name:	HESTER 12 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 4 (H232950-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476										BILL TO		ANALYSIS REQUEST									
Company Name: <u>Apache</u>										P.O. #:											
Project Manager: <u>B. Baker</u>										Company:											
Address:										Attn:											
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>										Address:											
Phone #: Fax #:										City:											
Project #: Project Owner:										State: Zip:											
Project Name:										Phone #:											
Project Location: <u>Hester 12 Tank Battery</u>										Fax #:											
Sampler Name:																					
FOR LAB USE ONLY																					
Lab I.D. Sample I.D.																					

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Received By: _____ Verbal Result: _____

<p>analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived by the user of the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>							
<p>Relinquished By: <u>Jose Quintero</u></p>		<p>Date: <u>6/8/23</u></p>		<p>Received By: <u>[Signature]</u></p>		<p>Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:</p>	
<p>Relinquished By:</p>		<p>Date:</p>		<p>Received By:</p>		<p>All Results are emailed. Please provide Email address:</p>	
<p>Delivered By: (Circle One)</p>		<p>Observed Temp. °C <u>3.5</u></p>		<p>Sample Condition</p>		<p>CHECKED BY: (Initials) <u>YO</u></p>	
<p>Sampler - UPS - Bus - Other:</p>		<p>Corrected Temp. °C <u>2.9</u></p>		<p><input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact</p>		<p>Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/></p>	
				<p><input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes</p>		<p>Bacteria (only) Sample Condition</p>	
				<p><input type="checkbox"/> No <input type="checkbox"/> No</p>		<p>Cool Intact Observed Temp. °C</p>	
						<p>Thermometer ID #113</p>	
						<p>Correction Factor -0.6°C <u>C</u></p>	
						<p><input type="checkbox"/> Yes <input type="checkbox"/> Yes</p>	
						<p><input type="checkbox"/> No <input type="checkbox"/> No</p>	
						<p>Corrected Temp. °C</p>	

~~FORM-006 R 3.3 07/18/22~~

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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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 228741

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 228741
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written. Apache has 90-days (December 14, 2023) to submit appropriate or final closure report.	9/15/2023