



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

November 7, 2020

Re: Tony Federal 60

Case # NRM2023238865

Background:

On 8/11/2022 a release was discovered due to a 4 inch poly flow line spit resulting in the loss of fluid. The release (GPS: 32.82262, -103.91272) is located east of Loco Hills, New Mexico in unit letter F section 19 township 17S range 31E. It is common knowledge that there is no groundwater in township 17S range 31E

On 11/3/2020 Apache Corporation conducted vertical and horizontal delineation. Vertical delineation was conducted in regular intervals at SP 1 and SP 2 to a depth of 1 foot below ground surface. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Horizontal 5 point surface composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Upon review of the laboratory data Apache Corporation proposes that the release area be excavated to a depth of 1 foot. All excavated material (150 yards) will be hauled to an OCD approved disposal facility. Once laboratory analysis are below table one standard for releases greater than 100 feet to groundwater and meet the reclamation standard of the rule the excavation will be backfilled with clean imported soil to ground surface and countered to the surrounding area. Apache Corporation will complete remediation within 180 days of OCD approval of the plan.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Laboratory Results, Field Notes, and Re-vegetation and Noxious Weed Plan.

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>None</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input 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	
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.
Signature: *Larry Baker* Date: 11/7/2020
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 02/19/2021

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: 11/7/2020
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 02/19/2021

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

Signature: Chad Hensley Date: 02/19/2021

Radius

Buffer Size (miles) : 0.5

Click Map to Draw Radius

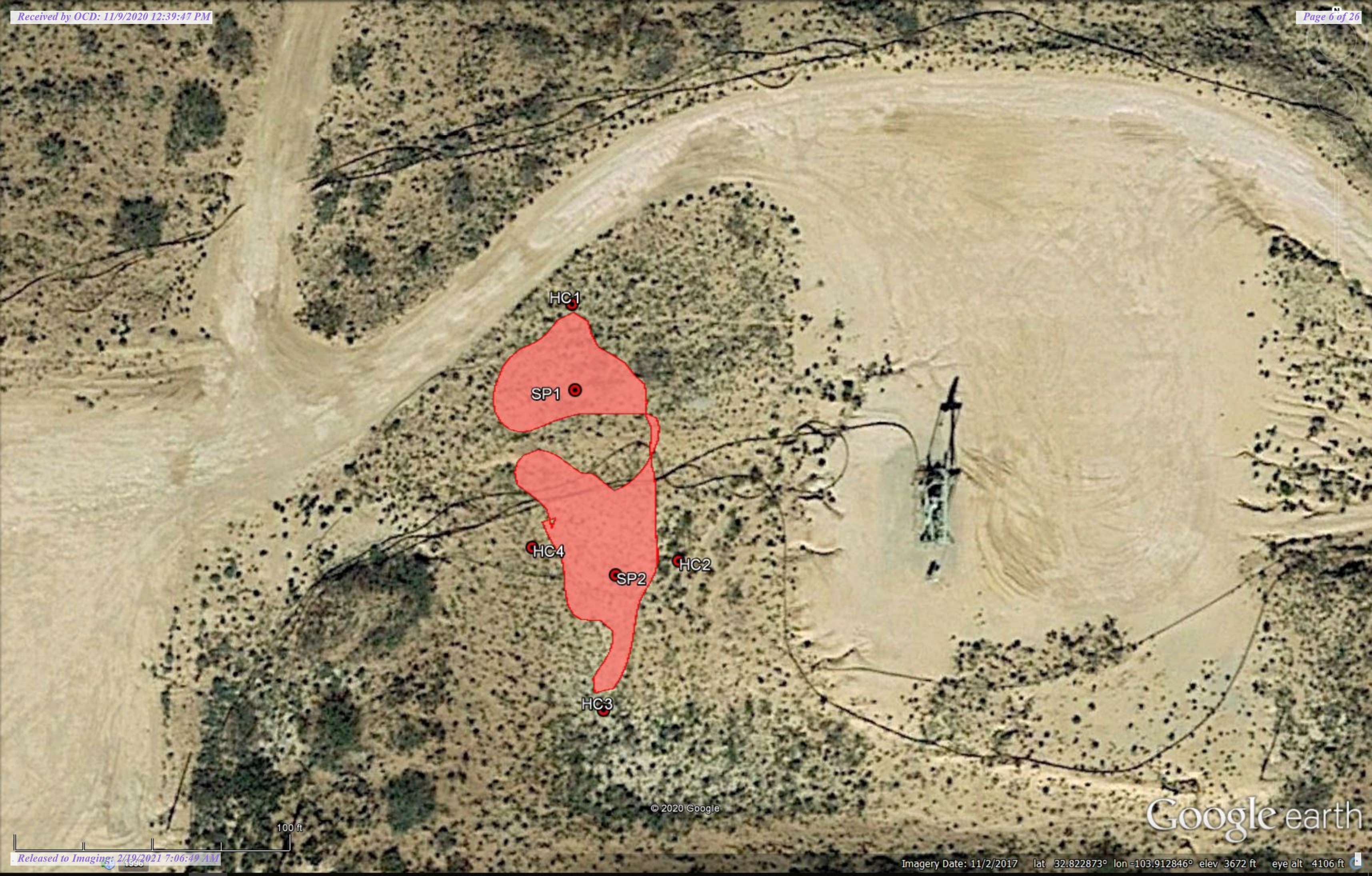
-103.91272

Show

Zoom to

Copyright: © 2013 National Geographic Society, i-cube, Inc.

Lat: 32.833006, Long: -103.947353 (WGS 84)



© 2020 Google

Google earth



Sample Date	Sample ID	Depth	Field Chloride	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
<u>Vertical Delineation</u>													
11/3/2020	SP1	Surface	10,364	104,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822774 -103.912679
11/3/2020		1'	455	528	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
11/3/2020	SP2	Surface	11,111	11,100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	166	92.1	32.822587 -103.912631
11/3/2020		1'	174	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	

Horizontal Composites													
11/3/2020	HC1	Surface	174	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822861 -103.912683
11/3/2020	HC2	Surface	147	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822602 -103.912555
11/3/2020	HC3	Surface	116	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822450 -103.912646
11/3/2020	HC4	Surface	148	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822615 -103.912731



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

November 04, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL #60

Enclosed are the results of analyses for samples received by the laboratory on 11/03/20 15:57.

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.

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:	11/03/2020	Sampling Date:	11/03/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	TONY FEDERAL #60	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H002910-01)

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	11/03/2020	ND	2.07	103	2.00	1.27		
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23		
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408		
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240		
Total BTEX	<0.300	0.300	11/03/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/03/2020
 Reported: 11/04/2020
 Project Name: TONY FEDERAL #60
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/03/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H002910-02)

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	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTX	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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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: 11/03/2020
 Reported: 11/04/2020
 Project Name: TONY FEDERAL #60
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/03/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H002910-03)

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	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTX	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	166	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	92.1	10.0	11/03/2020	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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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: 11/03/2020
 Reported: 11/04/2020
 Project Name: TONY FEDERAL #60
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/03/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H002910-04)

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	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTX	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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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*=Accredited Analyte

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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

Page 7 of 7



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

November 04, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL #60

Enclosed are the results of analyses for samples received by the laboratory on 11/03/20 15:55.

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.

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: 11/03/2020
 Reported: 11/04/2020
 Project Name: TONY FEDERAL #60
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/03/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: HC 1 (H002911-01)

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	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-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	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 42.2-156

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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: 11/03/2020
 Reported: 11/04/2020
 Project Name: TONY FEDERAL #60
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/03/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: HC 2 (H002911-02)

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	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEx	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

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	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.7 % 42.2-156

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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: 11/03/2020
 Reported: 11/04/2020
 Project Name: TONY FEDERAL #60
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/03/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: HC 3 (H002911-03)

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	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTX	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.3 % 42.2-156

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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: 11/03/2020
 Reported: 11/04/2020
 Project Name: TONY FEDERAL #60
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/03/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: HC 4 (H002911-04)

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	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTX	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-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	11/04/2020	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	11/04/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/04/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/04/2020	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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 "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:

Project Manager:

Address:

City:

Phone #:

Project #:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.

Sample I.D.

H003411

1 HC 2
2 HC 2
3 HC 3
4 HC 4

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CL-

BTEx

EXT. TPH

11/3/20 1400
11/3/20 1402
11/3/20 1404
11/3/20 1406

✓ ✓ ✓ ✓
✓ ✓ ✓ ✓
✓ ✓ ✓ ✓
✓ ✓ ✓ ✓

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Relinquished By:

Date: 11/3/20

Received By:

Time: 1:55

Received By:

Relinquished By:

Date: 11/3/20

Received By:

Time:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

P.O. #

Observed Temp. °C 7.8

Corrected Temp. °C

Sample Condition

Cool Intact

Yes ☒ No ☐Yes ☒ No ☐

CHECKED BY:

(Initials)

T.O.

Thermometer ID #

Correction Factor

#11/3/20

Standard

Rush

Bacteria (only)

Cool Intact

Yes ☒ No ☐Yes ☒ No ☐

Sample Condition

Observed Temp. °C

Corrected Temp. °C

REMARKS:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

Breakfast Samples to Lab from field

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

~~Tony~~ FEDERAL 60 11/2/20 Field Sampling

SP1 @ Surface - 32.822774, -103.912677

$10.4 / 30.0 = 2.88 = 3.60 = 10,364$

SP1 @ 1'

$10.5 / 30.0 = 2.85 = .16 = 455$

SP2 @ Surface - 32.822587, -103.912631

$10.5 / 30.0 = 2.85 = 11,101$

SP2 @ 1'

$10.3 / 30.0 = 2.91 = .06 = 174$

HC1 - 32.822861, -103.912683

$10.2 / 30.1 = 2.95 = .05 = 147$

HC2 - 32.822602, -103.912555

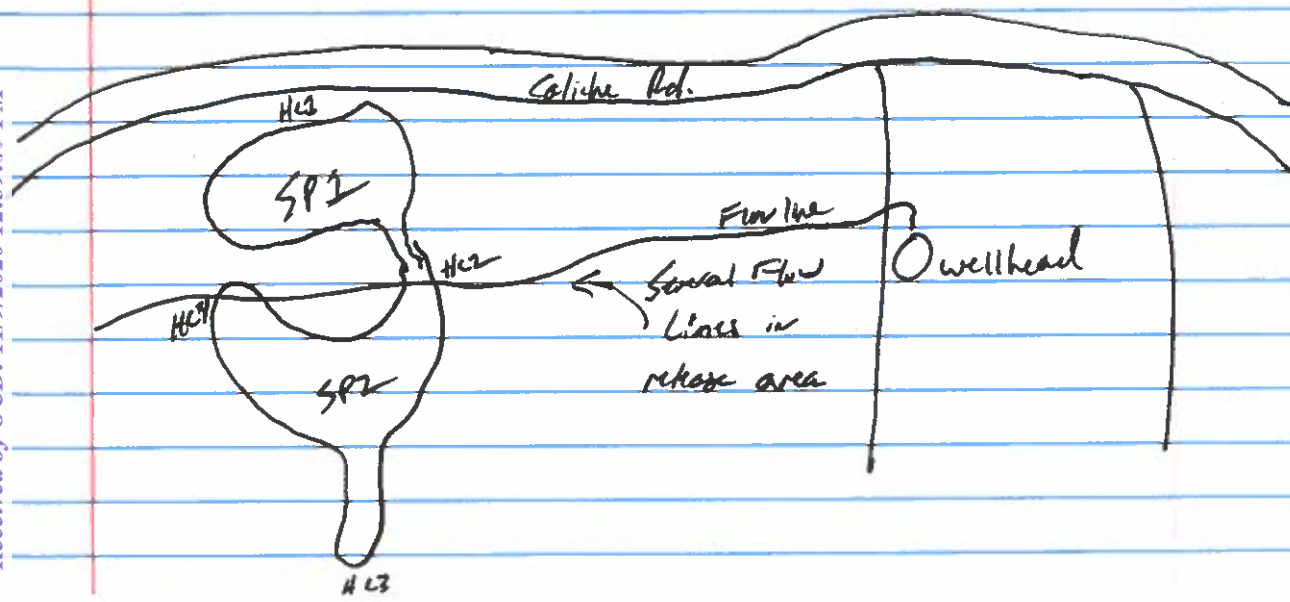
$10.3 / 30.1 = 2.92 = .04 = 116$

HC3 - 32.822450, -103.912646

$10.2 / 30.3 = 2.97 = .05 = 148$

HC4 - ~~32.822615~~ 32.822615, -103.912731

$10.0 / 30.1 = 3.01 = .05 = 150$





Tony Federal # 60
NRM2023238865
Revegetation
And
Noxious Weed Plan

Revegetation Plan:

All the disturbed area in the pasture will be properly prepared and seeded with BLM # 2. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

Noxious Weed Plan:

Apache Corporation will treat noxious weeds if they become established within the area of remediation. Weed control will be maintained on the disturbed land where noxious weeds exist both prior to remediation and restoration. Apache Corporation will consult with the Authorized Officer for acceptable weed control methods.

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 11115

CONDITIONS OF APPROVAL

Operator:		APACHE CORPORATION	303 Veterans Airpark Ln	OGRID:	873	Action Number:	11115	Action Type:	C-141
#1000		Midland, TX79705							

OCD Reviewer	Condition
chensley	If you feel the depth to groundwater is >100', a shallow borehole can be drilled to 105' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, sample points would be allowed for remedial. We would just need a copy of the driller's log.
chensley	If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.