

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Apache Corporation	OGRID	873
Contact Name	Larry Baker	Contact Telephone	432-631-6982
Contact email	larry.baker@apachecorp.com	Incident # (assigned by OCD)	
Contact mailing address	303 Veterans Airpark Lane Midland, TX 79705		

### Location of Release Source

Latitude 32.59132 Longitude -103.12116  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>Melot # 3</b>		Site Type <b>oil well</b>	
Date Release Discovered <b>9/14/2020</b>		API# <i>(if applicable)</i> <b>30-025-39458</b>	

(Note: GPS is associated with the physical location of release not the well location).

Unit Letter	Section	Township	Range	County
<b>C</b>	<b>11</b>	<b>20S</b>	<b>38E</b>	<b>Lea</b>

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: DK & J Services LLC/ Zamora Giovann)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	2 barrels	Volume Recovered (bbls)	0 barrels
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	5.5 barrels	Volume Recovered (bbls)	0 barrels
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)		
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		

Cause of Release The poly flow line was damaged by what appears to be a bullet hole.

Incident ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Larry Baker</u>	Title: <u>Environmental Tech SR.</u>
Signature: <u>Larry Baker</u>	Date: <u>9/21/2020</u>
email: <u>larry.baker@apachecorp.com</u>	Telephone: <u>432-631-6982</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

**Volume Calculation**

134 cubic feet of soil contamination X 7.48 gallons per cubic foot = 1,002 gallons/42 gallons to a barrel=  
23 barrels X .33 soil porosity= 7.5 barrels.



2350 W Marland Blvd Hobbs, NM 88240

## **Remediation Plan**

December 10, 2020

Re: Melot #3  
Case # NRM2026942243

### **Background:**

On 09/14/2020 a release occurred on a 3" flow line due to being punctured by a bullet resulting in the loss of oil and produced water. The release (GPS: 32.59132, -103.12116) is located south of Hobbs, NM in unit letter C section 11 township 20S range 38E. A groundwater survey was conducted utilizing the NMOSE wells of record. The nearest well suggest that groundwater beneath the release is 43 feet.

On 12/2/2020 vertical delineation was conducted utilizing a backhoe. Samples were collected in one-foot intervals. SP 1, SP 2, SP 4, and SP 5 were advanced to a depth of 3 feet and SP 3 was advanced to a depth of 4 feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 12/2/2020 surface horizontal 5-point composite samples not to exceed 200 square feet were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

On 12/9/2020 vertical delineation was conducted utilizing a backhoe at SP 5. Samples were collected in one-foot intervals. SP 5 was advanced to a depth of 6 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX.

### **Remediation Plan:**

Apache Corporation proposes that the area around SP 1, SP 2, and SP 4 be excavated to a depth of 3 feet. The area around SP 4 be excavated to a depth of 4 foot. The area around SP 5 be excavated to a depth 6 feet. All excavated material (330 yards) will be hauled to an NMOCD approved facility. After the excavation is complete final 5-point bottom and wall composite samples will be collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once analytical data confirms that the excavation meet table 1 standards for releases less than 50 feet to groundwater the excavation will be backfilled with clean imported topsoil. The remediation will be completed within 90 days of NMOCD approval of the plan.

Enclosed: C-141, Groundwater data, Maps, Sample Data, Field Notes and Laboratory Results

Submitted by;

A handwritten signature in black ink that reads "Jeff Broom".

**Environmental Technician III**  
Jeffrey.Broom@apachecorp.com  
Cell# 432-664-4677

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?	43' (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 <b>not</b> 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 1/2-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

Incident ID	NRM2026942243
District RP	
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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: Jeff Broom Title: Environmental Tech III

Signature: Jeff Broom Date: 12/10/2020

email: Jeffrey.Broom@apachecorp.com Telephone: 432.664.4677

**OCD Only**

Received by: Cristina Eads Date: 12/10/2020

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2026942243
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: Jeff Broom

Title: Environmental Tech III

Signature: Jeff Broom

Date: 12/10/2020

email: Jeffrey.Broom@apachecorp.com

Telephone: 432.664.4677

**OCD Only**

Received by: Cristina Eads

Date: 12/10/2020

☒ Approved

☐ Approved with Attached Conditions of Approval

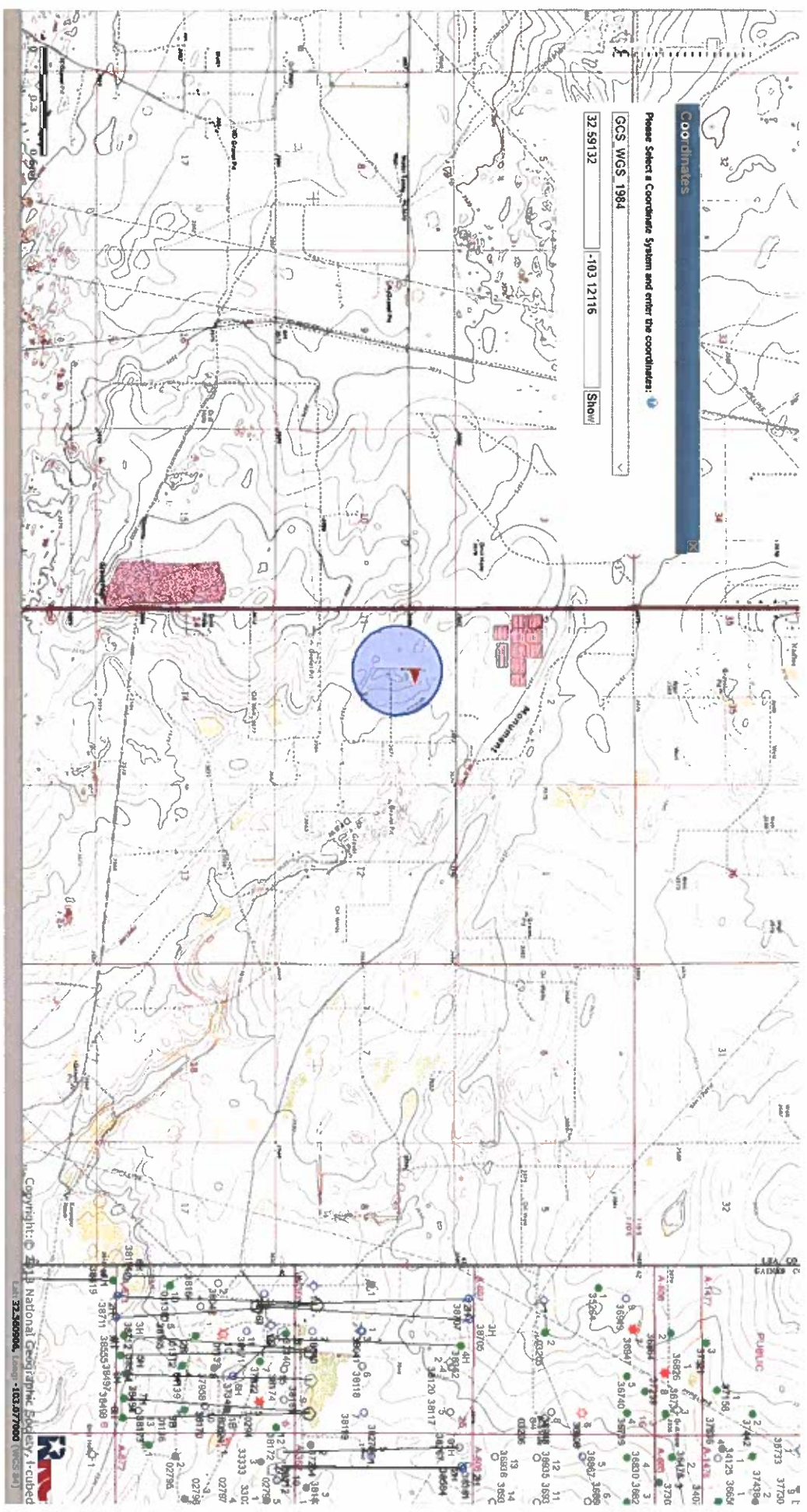
☐ Denied

☐ Deferral Approved

Signature: Cristina Eads

Date: 02/19/2021











# 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)

**Well Tag**    **POD Number**    **Q64 Q16 Q4 Sec Tws Rng**    **X**    **Y**    **(NAD83 UTM in meters)**

206CF    L 14440 POD 1    3    1    1    11    20S    38E    675888    3607659

**Driller License:** 1641    **Driller Company:** A & K WATER WELL DRILLING

**Driller Name:** GLASSPOOLE, KRISTOPHER L.

**Drill Start Date:** 04/25/2018    **Drill Finish Date:** 04/28/2018    **Plug Date:**

**Log File Date:** 05/10/2018    **PCW Rev Date:**    **Source:** Shallow

**Pump Type:**    **Pipe Discharge Size:**    **Estimated Yield:** 5 GPM

**Casing Size:** 6.00    **Depth Well:** 60 feet    **Depth Water:** 43 feet

Water Bearing Stratifications:	Top	Bottom	Description
	43	60	Sandstone Gravel Conglomerate

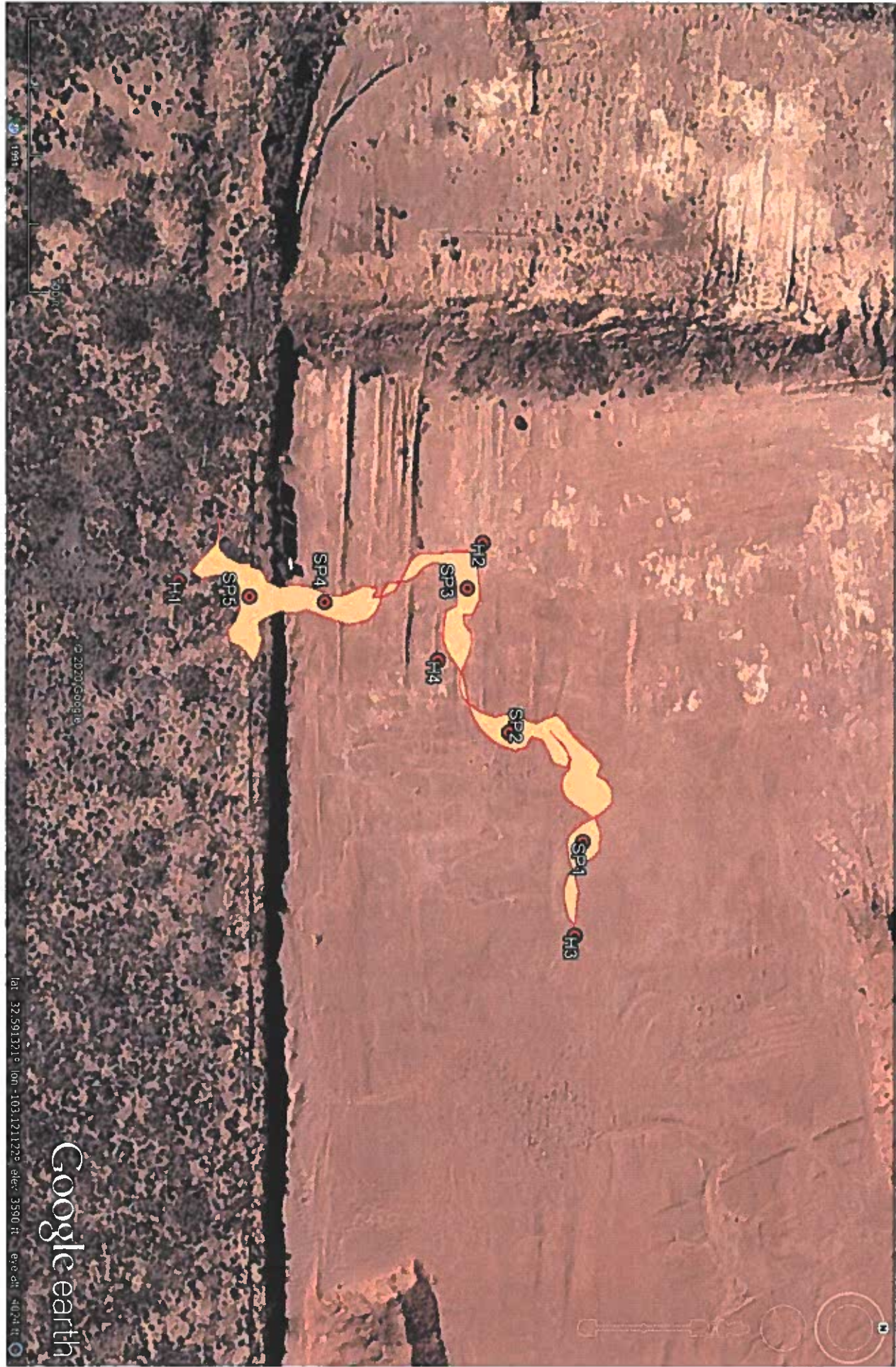
Casing Perforations:	Top	Bottom
	40	60

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.

11/30/20 2:13 PM

POINT OF DIVERSION SUMMARY







Sample Date	Sample ID	Depth	Field Chloride	Chloride	Benzene	Toulene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
Horizontal Samples													
12/2/2020	H1	Surface	117	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591236 -103.121206
12/2/2020	H2	Surface	142	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591543 -103.121253
12/2/2020	H3	Surface	178	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591637 -103.120781
12/2/2020	H4	Surface	113	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591497 -103.121112
Delineation Samples													
12/2/2020	SP1 @ Surface	Surface	8,032	11,300	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12,200	1,760	32.591645 -103.120894
12/2/2020	SP1 @ 1'	1'	1,251	992	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	273	<10.0	
12/2/2020	SP1 @ 2'	2'	752										
12/2/2020	SP1 @ 3'	3'	299	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591569 -103.121026
12/2/2020	SP2 @ Surface	Surface	13,495	22,400	<0.050	<0.050	0.065	0.323	0.388	<10.0	14,300	1,620	
12/2/2020	SP2 @ 1'	1'	7,502	8,930	<0.050	<0.050	<0.050	0.213	<0.300	14.1	715	44.8	
12/2/2020	SP2 @ 2'	2'	1,745										
12/2/2020	SP2 @ 3'	3'	323	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591527 -103.121199
12/2/2020	SP3 @ Surface	Surface	7,667	10,900	<0.050	<0.050	0.054	0.356	0.41	<10.0	15,700	3,570	
12/2/2020	SP3 @ 1'	1'	5,548	6,320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	79.0	15.2	
12/2/2020	SP3 @ 2'	2'	808										
12/2/2020	SP3 @ 3'	3'	1,616	1,570	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	352	84.8	
12/2/2020	SP3 @ 4'	4'	240	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	37.8	14.3	32.591382 -103.121182
12/2/2020	SP4 @ Surface	Surface	12,767	16,000	<0.050	<0.050	0.157	0.764	0.921	<10.0	11,800	3,170	
12/2/2020	SP4 @ 1'	1'	1,061	960	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.4	39.7	
12/2/2020	SP4 @ 2'	2'	744										
12/2/2020	SP4 @ 3'	3'	206	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591307 -103.121188
12/2/2020	SP5 @ Surface	Surface	6,994	7,600	<0.050	1.53	3.41	11.2	16.2	407	19,900	4,350	
12/2/2020	SP5 @ 1'	1'	7,053	7,860	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	76.1	21.5	
12/2/2020	SP5 @ 2'	2'	1,528										
12/2/2020	SP5 @ 3'	3'	436	208	<0.050	<0.050	<0.050	0.177	<0.300	<10.0	237	43	
12/9/2020	SP5 @ 4'	4'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	548	115	
12/9/2020	SP5 @ 5'	5'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	125.0	19.1	
12/9/2020	SP5 @ 6'	6'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	39.2	<10.0	



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

December 03, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MELOT 3

Enclosed are the results of analyses for samples received by the laboratory on 12/02/20 13:40.

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,

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: 12/02/2020  
 Reported: 12/03/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 1 @ SURFACE (H003155-01)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/02/2020	ND	214	107	200	7.73	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	198	99.1	200	8.49	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. 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: 12/02/2020  
 Reported: 12/03/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 2 @ SURFACE (H003155-02)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/02/2020	ND	214	107	200	7.73	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	198	99.1	200	8.49	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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: 12/02/2020  
 Reported: 12/03/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 3 @ SURFACE (H003155-03)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, 5M4500Cl-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	12/03/2020	ND	400	100	400	7.69	

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	12/02/2020	ND	214	107	200	7.73	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	198	99.1	200	8.49	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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\*=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: 12/02/2020  
 Reported: 12/03/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 4 @ SURFACE (H003155-04)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/02/2020	ND	214	107	200	7.73	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	198	99.1	200	8.49	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**Company Name:** Alpine Corporation

**Project Manager:** Bruce Baker

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Phone #:** \_\_\_\_\_ **Fax #:** \_\_\_\_\_

**Project #:** \_\_\_\_\_ **Project Owner:** \_\_\_\_\_

**Project Name:** Mt 3

**Project Location:** Mt 3

**Sample Name:** Jeff Brown

FOR LAB USE ONLY

**P.O. #:** \_\_\_\_\_

**Company:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Phone #:** \_\_\_\_\_ **Fax #:** \_\_\_\_\_

Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	CL-	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
A003155	H2 @ Surface	C									12/10/00	1305			
	H3 @ Surface	C									12/10/00	1307			
	H3 @ Surface	C									12/10/00	1309			
	H4 @ Surface	C									12/10/00	1311			

**Relinquished By:** Jeff Brown

**Date:** 12/10/00

**Time:** 1340

**Received By:** Lawrence D. Baker

**Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Sample Condition:** \_\_\_\_\_

**Coed Inlet:** \_\_\_\_\_

**Checked By:** \_\_\_\_\_

**Remarks:** \_\_\_\_\_

**Phone Results:** ☐ Yes ☐ No **Add Phone #:** \_\_\_\_\_

**Fax Results:** ☐ Yes ☐ No **Add Fax #:** \_\_\_\_\_

**Delivered By:** (Circle One) 5.2c #113

**Sampler:** UPB Bus Other



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

December 04, 2020

BRUCE BAKER

APACHE CORP • HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MELOT 3

Enclosed are the results of analyses for samples received by the laboratory on 12/02/20 13:40.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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,

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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ SURFACE (H003156-01)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	<0.300	0.300	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11300	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/02/2020	ND	214	107	200	7.73		
DRO >C10-C28*	12200	100	12/02/2020	ND	198	99.1	200	8.49		
EXT DRO >C28-C36	1760	100	12/02/2020	ND						

Surrogate: 1-Chlorooctane 98.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 540 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H003156-02)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	<0.300	0.300	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	214	107	200	7.73	
DRO >C10-C28*	273	10.0	12/03/2020	ND	198	99.1	200	8.49	
EXT DRO >C28-C36	<10.0	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 98.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 3' (H003156-03)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	214	107	200	7.73	
DRO >C10-C28*	<10.0	10.0	12/03/2020	ND	198	99.1	200	8.49	
EXT DRO >C28-C36	<10.0	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.2 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ SURFACE (H003156-04)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	0.065	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	0.323	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	0.388	0.300	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	12/03/2020	ND	400	100	400	7.69	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	12/03/2020	ND	214	107	200	7.73	
DRO >C10-C28*	14300	100	12/03/2020	ND	198	99.1	200	8.49	
EXT DRO >C28-C36	1620	100	12/03/2020	ND					

S-06

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 586 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 1' (H003156-05)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
<b>Total Xylenes*</b>	<b>0.213</b>	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	<0.300	0.300	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 106 % 73.3-129

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>8930</b>	16.0	12/03/2020	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>14.1</b>	10.0	12/03/2020	ND	214	107	200	7.73	
<b>DRO &gt;C10-C28*</b>	<b>715</b>	10.0	12/03/2020	ND	198	99.1	200	8.49	
<b>EXT DRO &gt;C28-C36</b>	<b>44.8</b>	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 3' (H003156-06)**

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	12/03/2020	ND	2.12	106	2.00	4.42	
Toluene*	<0.050	0.050	12/03/2020	ND	2.01	101	2.00	4.82	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.09	105	2.00	4.82	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.95	99.2	6.00	4.19	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	214	107	200	7.73	
DRO >C10-C28*	<10.0	10.0	12/03/2020	ND	198	99.1	200	8.49	
EXT DRO >C28-C36	<10.0	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 90.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.0 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ SURFACE (H003156-07)**

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	12/03/2020	ND	2.12	106	2.00	3.13	
Toluene*	<0.050	0.050	12/03/2020	ND	2.03	102	2.00	3.51	
Ethylbenzene*	0.054	0.050	12/03/2020	ND	2.11	106	2.00	3.62	
Total Xylenes*	0.356	0.150	12/03/2020	ND	6.01	100	6.00	3.53	
Total BTEX	0.410	0.300	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 112 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	12/03/2020	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	15700	100	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	3570	100	12/03/2020	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-144

Surrogate: 1-Chlorooctadecane 553 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 1' (H003156-08)**

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	12/03/2020	ND	2.12	106	2.00	3.13	
Toluene*	<0.050	0.050	12/03/2020	ND	2.03	102	2.00	3.51	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.11	106	2.00	3.62	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	6.01	100	6.00	3.53	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	79.0	10.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	15.2	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 3' (H003156-09)**

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	12/03/2020	ND	2.09	104	2.00	1.50	QR-03
Toluene*	<0.050	0.050	12/03/2020	ND	2.00	100	2.00	1.69	QR-03
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.06	103	2.00	1.21	QR-03
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	352	10.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	84.8	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 4' (H003156-10)**

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	12/03/2020	ND	2.09	104	2.00	1.50	
Toluene*	<0.050	0.050	12/03/2020	ND	2.00	100	2.00	1.69	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	37.8	10.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	14.3	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ SURFACE (H003156-11)**

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	12/03/2020	ND	2.09	104	2.00	1.50	
Toluene*	<0.050	0.050	12/03/2020	ND	2.00	100	2.00	1.69	
Ethylbenzene*	<b>0.157</b>	0.050	12/03/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	<b>0.764</b>	0.150	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	<b>0.921</b>	0.300	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PH) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>16000</b>	16.0	12/03/2020	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	<b>11800</b>	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	<b>3170</b>	50.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 475 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 1' (H003156-12)**

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	12/03/2020	ND	2.09	104	2.00	1.50	
Toluene*	<0.050	0.050	12/03/2020	ND	2.00	100	2.00	1.69	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	<0.300	0.300	12/03/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	56.4	10.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	39.7	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 3' (H003156-13)**

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	12/03/2020	ND	2.09	104	2.00	1.50	
Toluene*	<0.050	0.050	12/03/2020	ND	2.00	100	2.00	1.69	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	<0.300	0.300	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	<10.0	10.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.0 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ SURFACE (H003156-14)**

BTEX 80218		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	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	1.53	0.050	12/04/2020	ND	2.00	100	2.00	1.69	
Ethylbenzene*	3.41	0.050	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	11.2	0.150	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	16.2	0.300	12/04/2020	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 203 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	12/03/2020	ND	400	100	400	7.69	

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*	407	100	12/03/2020	ND	220	110	200	0.486	
DRO >C10-C28*	19900	100	12/03/2020	ND	214	107	200	0.636	
EXT DRO >C28-C36	4350	100	12/03/2020	ND					

Surrogate: 1-Chlorooctane 141 % 44.3-144

Surrogate: 1-Chlorooctadecane 713 % 42.2-156

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:	12/02/2020	Sampling Date:	12/02/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	MELOT 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 5 @ 1' (H003156-15)**

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	12/03/2020	ND	2.09	104	2.00	1.50		
Toluene*	<0.050	0.050	12/03/2020	ND	2.00	100	2.00	1.69		
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.06	103	2.00	1.21		
Total Xylenes*	<0.150	0.150	12/03/2020	ND	5.88	98.1	6.00	1.08		
Total BTEX	<0.300	0.300	12/03/2020	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	12/03/2020	ND	400	100	400	7.69	

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	12/03/2020	ND	220	110	200	0.486	
DRO >C10-C28*	76.1	10.0	12/03/2020	ND	214	107	200	0.636	
EXT DRO >C28-C36	21.5	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.4 % 42.2-156

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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: 12/02/2020  
 Reported: 12/04/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/02/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 3' (H003156-16)**

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	12/03/2020	ND	2.09	104	2.00	1.50	
Toluene*	<0.050	0.050	12/03/2020	ND	2.00	100	2.00	1.69	
Ethylbenzene*	<0.050	0.050	12/03/2020	ND	2.06	103	2.00	1.21	
<b>Total Xylenes*</b>	<b>0.177</b>	0.150	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTX	<0.300	0.300	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 103 % 73.3-129

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>208</b>	16.0	12/03/2020	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	12/03/2020	ND	220	110	200	0.486	
<b>DRO &gt;C10-C28*</b>	<b>237</b>	10.0	12/03/2020	ND	214	107	200	0.636	
<b>EXT DRO &gt;C28-C36</b>	<b>43.2</b>	10.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.2 % 42.2-156

Cardinal Laboratories

\* = 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.
- 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.
- 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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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240  
(575) 393-2126 FAX (575) 393-2476

Company Name: <u>Apache Corporation</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: <u>Bruce Allen</u>		Company:																																							
Address:		Attn:																																							
City:		State:		Zip:																																					
Phone #:		Fax #:		Address:																																					
Project #:		City:		State:		Zip:																																			
Project Name: <u>Melot 3</u>		State:		Zip:																																					
Project Location: <u>Melot 3</u>		Phone #:																																							
Sample Name: <u>Left Room</u>		Fax #:																																							
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		CL- BTEX EXT. TPH											
H00356		11 SP4 @ Surface		3		1																				12/2/20		1338													
12 SP4 @ 1'		6		1																						12/4		1242													
13 SP4 @ 3'		6		1																						12/4		1244													
14 SP5 @ Surface		6		1																						12/4		1244													
15 SP5 @ 1'		6		1																						12/4		1244													
16 SP5 @ 3'		6		1																						12/2/20		1248													
Relinquished By: <u>[Signature]</u>		Date: <u>12/2/20</u>		Received By: <u>[Signature]</u>		Date: <u>12/2/20</u>		Time: <u>1330</u>		Sample Condition		Cool		Intact		Checked By: <u>[Signature]</u>		Phone Request: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Request: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <u>70</u>		Add'l Fax #: <u>70</u>		REMARKS:															
Delivered By: (Circle One)		5:20 #113		Sample Condition		Cool		Intact		Checked By: <u>[Signature]</u>		Phone Request: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Request: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <u>70</u>		Add'l Fax #: <u>70</u>		REMARKS:																					





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

December 09, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MELOT 3

Enclosed are the results of analyses for samples received by the laboratory on 12/09/20 10:05.

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,

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: 12/09/2020  
 Reported: 12/09/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/09/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 4' (H003214-01)**

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	12/09/2020	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/09/2020	ND	2.01	101	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/09/2020	ND	2.11	105	2.00	2.64	
Total Xylenes*	<0.150	0.150	12/09/2020	ND	5.99	99.8	6.00	2.55	
Total BTEX	<0.300	0.300	12/09/2020	ND					

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

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	12/09/2020	ND	238	119	200	5.17	
DRO >C10-C28*	548	10.0	12/09/2020	ND	219	109	200	7.43	
EXT DRO >C28-C36	115	10.0	12/09/2020	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 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: 12/09/2020  
 Reported: 12/09/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/09/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 5' (H003214-02)**

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	12/09/2020	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/09/2020	ND	2.01	101	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/09/2020	ND	2.11	105	2.00	2.64	
Total Xylenes*	<0.150	0.150	12/09/2020	ND	5.99	99.8	6.00	2.55	
Total BTEX	<0.300	0.300	12/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 99.8 % 73.3-129

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	12/09/2020	ND	238	119	200	5.17	
DRO >C10-C28*	125	10.0	12/09/2020	ND	219	109	200	7.43	
EXT DRO >C28-C36	19.1	10.0	12/09/2020	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.9 % 42.2-156

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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: 12/09/2020  
 Reported: 12/09/2020  
 Project Name: MELOT 3  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/09/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 6' (H003214-03)**

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	12/09/2020	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/09/2020	ND	2.01	101	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/09/2020	ND	2.11	105	2.00	2.64	
Total Xylenes*	<0.150	0.150	12/09/2020	ND	5.99	99.8	6.00	2.55	
Total BTEX	<0.300	0.300	12/09/2020	ND					

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

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	12/09/2020	ND	238	119	200	5.17	
DRO >C10-C28*	39.2	10.0	12/09/2020	ND	219	109	200	7.43	
EXT DRO >C28-C36	<10.0	10.0	12/09/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.2 % 42.2-156

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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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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: Apache Corporation  
 Project Manager: Bruce Beltr  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Project Name: Melot #3  
 Project Location: Melot #3  
 Sampler Name: Jeff Brown

P.O. # \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	PRESERV.	SAMPLING	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						
H003a14	1 SP5 @ 4'		6			✓					12/4/92	0800			✓	✓
	2 SP5 @ 5'		6			✓					12/4/92	0805			✓	✓
	3 SP5 @ 6'		6			✓					12/4/92	0810			✓	✓

Relinquished By: Jeff Brown  
 Date: 12/4/92  
 Time: 12:05  
 Received By: [Signature]  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One) Client #113  
 Sample - UPS - Bus - Other: \_\_\_\_\_  
 Sample Condition: Cool ☒ Intact ☒  
 Checked By: [Signature]  
 Date: \_\_\_\_\_

REMARKS: First Sample

## 12/2/20 Met #3 Delineation

Top Swi SP1 @ Surface - 32.591645, -103.120844  
 $10.4/30.0 = 2.88 = 3.79 = 8,032$

Red Int SP1 @ 1'  
 $10.1/30.1 = 2.98 = .42 = 1,251$

Red Dnt SP1 @ 2'  
 $10.0/30.1 = 3.01 = .25 = 752$

Red Dnt SP1 @ 3'  
 $10.0/30.0 = 3 = .10 = 299$

Red Dnt SP2 @ Surface - 32.591569, -103.121024  
 $10.1/30.3 = 3 = 4.50 = 13,495$

Red Dnt SP2 @ 1'  
 $10.3/30.1 = 2.92 = 2.57 = 7,502$

Red Dnt SP2 @ 2'  
 $10.3/30.0 = 2.91 = .60 = 1,745$

Red Dnt SP2 @ 3'  
 $10.2/30.0 = 2.94 = .11 = 323$

Red Dnt SP3 @ Surface - 32.591527, -103.121199  
 $10.2/30.1 = 2.95 = 2.60 = 7,667$

Red Dnt SP3 @ 1'  
 $10.1/30.3 = 3 = 1.85 = 5,548$

Red Dnt SP3 @ 2'  
 $10.4/30.1 = 2.89 = .28 = 808$

Red Dnt SP3 @ 3'  
 $10.3/30.3 = 2.94 = .55 = 1,616$

Red Dirt SP3 @ 4'

w/calcide  
hid head Red 10.0/30.1 = 3.01 = .08 = 240

Red Dirt SP4 @ Surface - 32.591382, -103.121182

$$10.1/30.0 = 2.97 = 4.30 = 12,767$$

Red Dirt SP4 @ 1'

$$10.2/30.1 = 2.95 = .36 = 1,061$$

Red Dirt SP4 @ 2'

$$10.1/30.1 = 2.98 = .25 = 744$$

Red Dirt SP4 @ 3'

$$10.2/30.1 = 2.95 = .07 = 206$$

Red Dirt SP5 @ Surface - 32.591307, -103.121188

$$10.1/30.2 = 2.99 = 2.34 = 6,994$$

Red Dirt SP5 @ 1'

$$10.4/30.0 = 2.88 = 2.45 = 7,053$$

Red Dirt SP5 @ 2'

$$10.2/30.0 = 2.94 = .52 = 1,528$$

Red Dirt SP5 @ 3'

$$10.4/30.3 = 2.91 = .15 = 436$$

$$H1 - 32.591236, -103.121206$$

$$10.2/30.0 = 2.94 = .04 = 117$$

$$H2 - 32.591543, -103.121253$$

$$10.5/30.0 = 2.85 = .05 = 142$$

$$H3 - 32.591637, -103.120781$$

$$10.1/30.0 = 2.97 = .06 = 178$$



H4 - 32.591457, -103.121112

$$10.6 / 30.1 = 2.83 = .64 = 1/3$$

12/9/20

SPS @ 4', 5', 6'

BTEX & EXT. TPH (LAB RESULTS NEEDED)

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 11731

CONDITIONS OF APPROVAL

Operator: #1000	APACHE CORPORATION Midland, TX79705	303 Veterans Airpark Ln	OGRID: 873	Action Number: 11731	Action Type: C-141
OCD Reviewer ceads	Condition None				