

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

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

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

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

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

Unit Letter	Section	Township	Range	County
C	11	20S	38E	Lea

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.**

State of New Mexico
Oil Conservation Division

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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>
<u>OCD Only</u> 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;

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 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 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

Incident ID	NRM2026942243
District RP	
Facility ID	
Application ID	

Remediation Plan

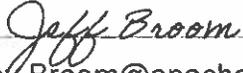
Remediation Plan Checklist: Each of the following items must be included in the plan.

- 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.

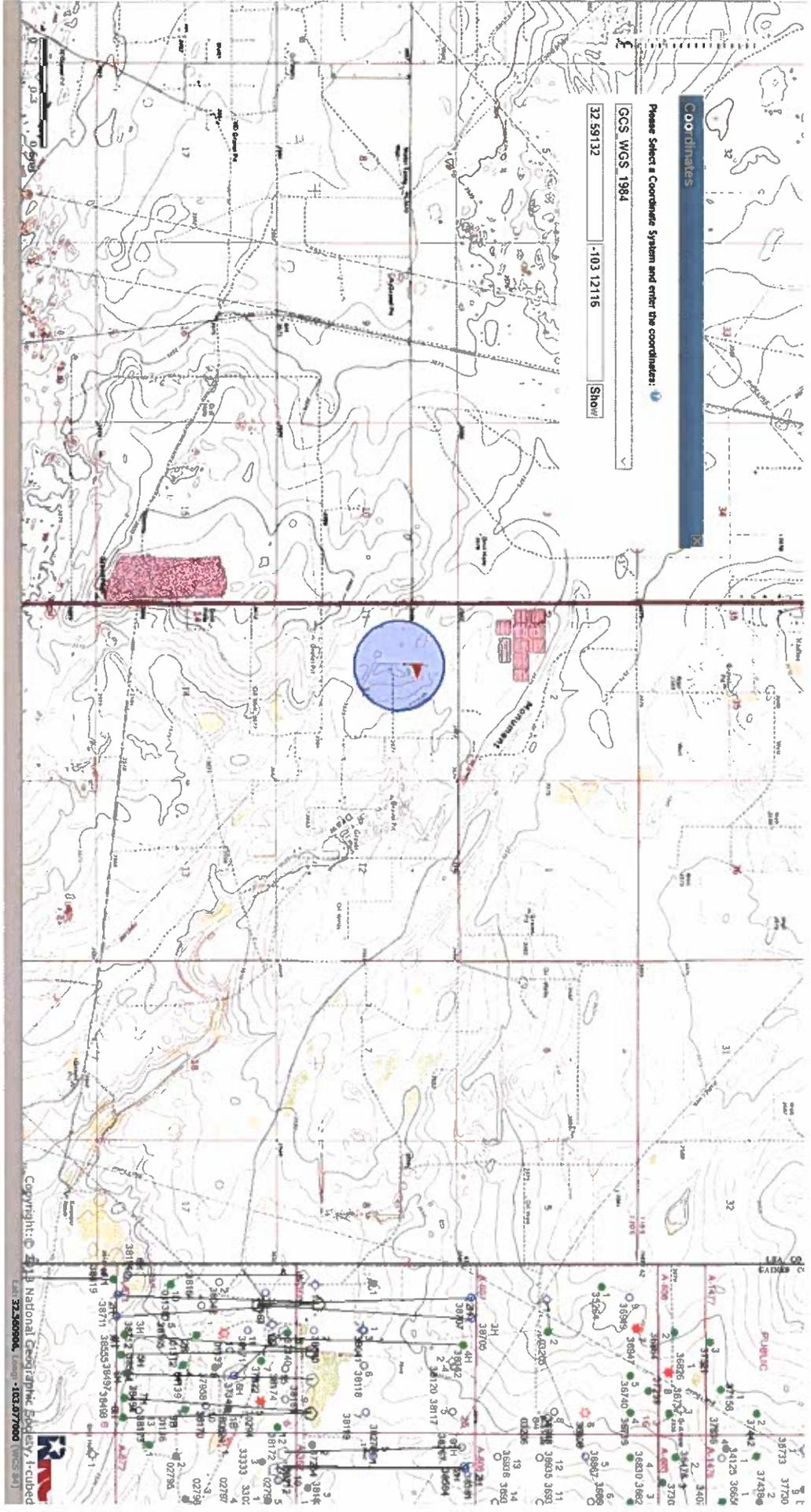
Printed Name: Jeff Broom Title: Environmental Tech III
 Signature:  Date: 12/10/2020
 email: Jeffrey.Broom@apachecorp.com Telephone: 432.664.4677

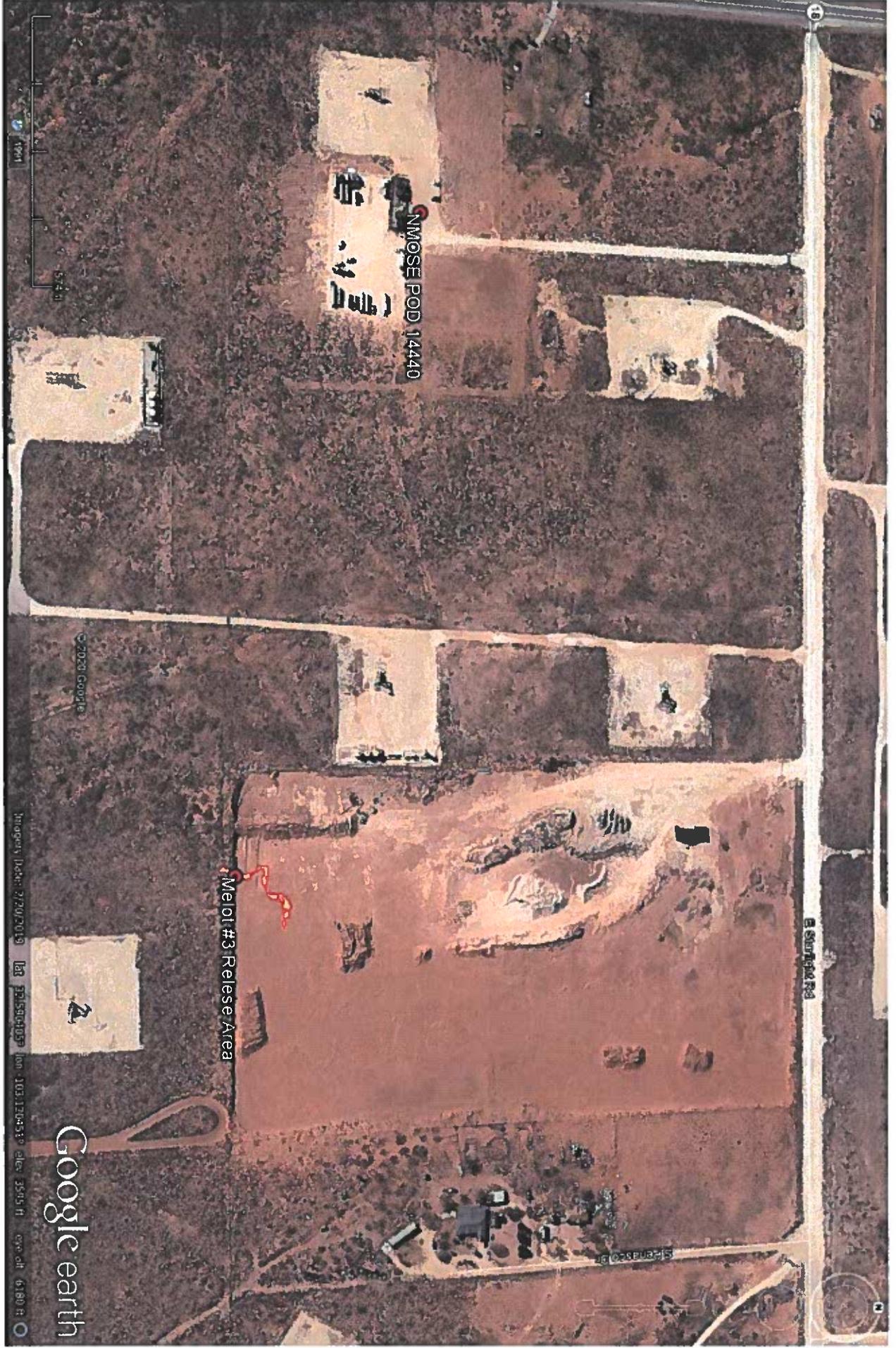
OCD Only

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

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 02/19/2021







New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag 206CF POD Number L 14440 POD 1 (quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) Q64 Q16 Q4 Sec Tws Rng X Y (MAD83 UTM in meters)
 3 1 1 11 20S 38E 675888 3607659

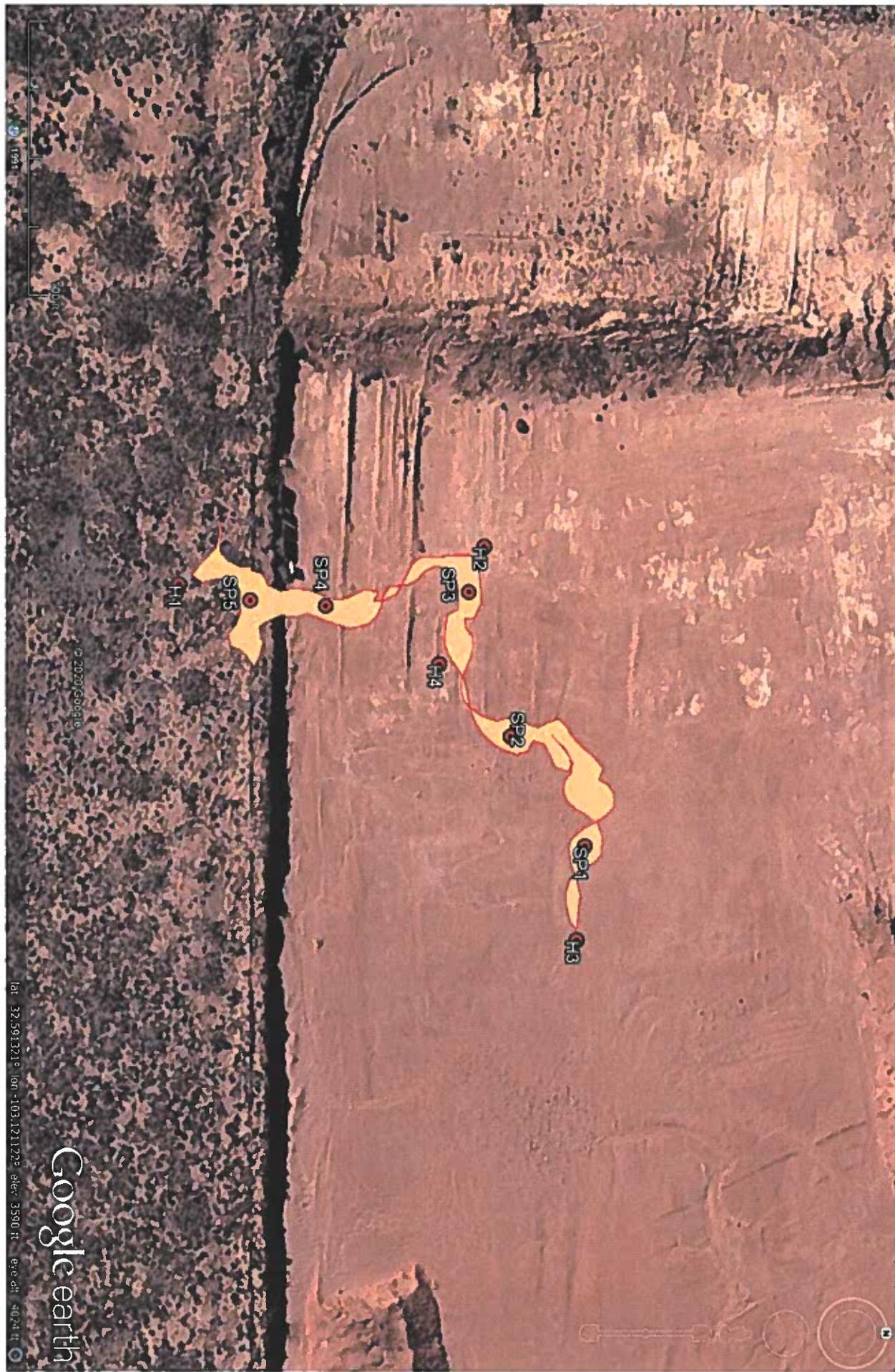
Driller License: 1641 Driller Company: A & K WATER WELL DRILLING
 Driller Name: GLASSPOOLE, KRISTOPHER L.

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 NMSOSE 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
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
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
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
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
12/2/2020	SP1 @ 1'	1'	1,251	992	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	273	<10.0	-103.120894
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	
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	32.591569
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	-103.121026
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	
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	32.591527
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	-103.121199
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	
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	32.591382
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	-103.121182
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	
12/2/2020	SP5 @ Surface	Surface	6,994	7,600	<0.050	<0.050	1.53	11.2	16.2	407	19,900	4,350	32.591307
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	-103.121188
12/2/2020	SP5 @ 2'	2'	1,528										
12/2/2020	SP5 @ 3'	3'	436	208	<0.050	<0.050	<0.050	<0.150	<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/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



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:	12/03/2020	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: H 1 @ SURFACE (H003155-01)

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) 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	Sampling Date:	12/02/2020
Reported:	12/03/2020	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: 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 (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	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

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by 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	Sampling Date:	12/02/2020
Reported:	12/03/2020	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: 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, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	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

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:	12/03/2020	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: 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, SM4500Cl-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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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey 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

BILL TO

ANALYSIS REQUEST

Company Name: Aplic Corporation
 Project Manager: Paul Baker

Address: _____ State: _____ Zip: _____
 City: _____

Phone #: _____ Fax #: _____
 Project Owner: _____

Project Name: Mud 3
 Project Location: Mud 3

Sample Name: Left Room

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

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	CL	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<u>H003155</u>	<u>H1 @ Surface</u>	<u>C</u>		<input checked="" type="checkbox"/>							<u>1305</u>	<u>1305</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>H2 @ Surface</u>	<u>C</u>		<input checked="" type="checkbox"/>							<u>1307</u>	<u>1307</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>H3 @ Surface</u>	<u>C</u>		<input checked="" type="checkbox"/>							<u>1309</u>	<u>1309</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>H4 @ Surface</u>	<u>C</u>		<input checked="" type="checkbox"/>							<u>1311</u>	<u>1311</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

FOR USE ONLY

Relinquished By: Jeff Rasmussen Date: 12/16/20 Time: 1340

Received By: Quiana Roberts Date: _____ Time: _____

Delivered By: (Circle One) UPS - Bus - Other: 5:22 # 113

Sample Condition: Yes No

Checked By: _____



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.

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	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 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 (PH) 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

Cardinal Laboratories

*=Accredited Analyte

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Coley 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 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, SM4500CI-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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* = 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 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



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 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							S-06
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							

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



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 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		
Total Xylenes*	0.213	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, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8930	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*	14.1	10.0	12/03/2020	ND	214	107	200	7.73		
DRO >C10-C28*	715	10.0	12/03/2020	ND	198	99.1	200	8.49		
EXT DRO >C28-C36	44.8	10.0	12/03/2020	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 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:	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 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



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 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 (PF) 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							S-06
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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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 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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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 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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Coley 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	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 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 (PH) 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	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 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*	0.157	0.050	12/03/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	0.764	0.150	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	0.921	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	16000	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*	<50.0	50.0	12/03/2020	ND	215	108	200	2.24		
DRO >C10-C28*	11800	50.0	12/03/2020	ND	219	110	200	1.27		
EXT DRO >C28-C36	3170	50.0	12/03/2020	ND						

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 475 % 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	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 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	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 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, SM4500CI-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	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 @ SURFACE (H003156-14)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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				S-06		
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

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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 (PHE) 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

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 @ 3' (H003156-16)

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*	0.177	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	208	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		
DRO >C10-C28*	237	10.0	12/03/2020	ND	214	107	200	0.636		
EXT DRO >C28-C36	43.2	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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Coley D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

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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) 393-2126 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: <i>Apache Corporation</i> Project Manager: <i>Bruce Baker</i>		P.O. #: Company:									
Address: City: State: Zip:		Address: City: State: Zip:									
Phone #: Fax #: Project #: Project Owner:		Phone #: Fax #: Project #: Project Owner:									
Project Name: <i>Melot 3</i> Project Location: <i>Melot 3</i>		City: State: Zip:									
Sampler Name: <i>Jeff Brown</i>		Fax #:									
FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESEN/	SAMPLING	DATE	TIME	CL-	BTEX	EXT. TPH
<i>H00356</i>	<i>11 SP4 @ Surface</i>	<i>3</i>	<i>6</i>	<i>1</i>			<i>12/2/20</i>	<i>1338</i>			
	<i>12 SP4 @ 1'</i>	<i>6</i>	<i>6</i>	<i>1</i>				<i>1242</i>			
	<i>13 SP4 @ 3'</i>	<i>6</i>	<i>6</i>	<i>1</i>				<i>1244</i>			
	<i>14 SP5 @ Surface</i>	<i>6</i>	<i>6</i>	<i>1</i>				<i>1244</i>			
	<i>15 SP5 @ 1'</i>	<i>6</i>	<i>6</i>	<i>1</i>				<i>1246</i>			
	<i>16 SP5 @ 3'</i>	<i>6</i>	<i>6</i>	<i>1</i>			<i>12/2/20</i>	<i>1248</i>			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's retention remain for any other safety violation found in excess of that stated in the request form by the client for the samples. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, or any other party, in connection with the performance of the services provided by Cardinal. Cardinal's liability shall be limited to the amount of the fee for the services provided by Cardinal.

Released By: *Jeff Brown* Date: *12/2/20* Received By: *Linnea Roberts*
 Time: *1330*

Delivered By: (Circle One) UPS Bus Other
 Sampler - UPS - Bus - Other: *5:20 #113*

Sample Condition: Cool Impact
 Checked By: *VB*

Phone Request: Yes No Add'l Phone #:
 Fax Request: Yes No Add'l Fax #:
 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.

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	Sampling Date:	12/09/2020
Reported:	12/09/2020	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 @ 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



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	Sampling Date:	12/09/2020
Reported:	12/09/2020	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 @ 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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* = 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:	12/09/2020	Sampling Date:	12/09/2020
Reported:	12/09/2020	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 @ 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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2226 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Apache Corporation
 Project Manager: Bruce Baker
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 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.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H003214	SP5@4'	6	6			✓				12/12	0800	BTEX	
	2 SP5@5'	6	6			✓				12/12	0805	EXT. TPH	
	3 SP5@6'	6	6			✓				12/12	0810		

DELIVERED BY: (Circle One)
 Sampler - UPS - Bus - Other: 4.6e #113
 Delivered By: Jeff Brown
 Date: 12/12/20
 Time: 0805
 Received By: Quanta Ollaby
 Date: 12/12/20
 Time: 0810
 CHECKED BY: (Initials) J.O.
 REMARKS: Rust Samples

12/2/20 Met #3 Delineation

Top Sw. SP1 @ Surface - 32.591645, -103.120899
 $10.4/30.0 = 2.88 = 3.79 = 8,032$

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

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

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

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

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

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

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

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

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

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

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

Red Dirt SP3 @ 4'

w/calc
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 = 2.97 = .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'

BTX & EXT. TPH (LAB RESULTS NEEDED)

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 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		