

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2024553731
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Advance Energy Partners Hat Mesa LLC	OGRID: 372417
Contact Name: David Harwell	Contact Telephone: 281-235-3431
Contact email: DHarwell@advanceenergypartners.com	Incident # (assigned by OCD)
Contact mailing address: 11490 Westheimer Rd. Suite 950. Houston, TX 77077	

### Location of Release Source

Latitude 32.4409407Longitude -103.5496888

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: 08312020-1431-prodops	Site Type: Pipeline ROW
Date Release Discovered: 08/31/2020 @ 14:31 hrs	API#

Unit Letter	Section	Township	Range	County
D	35	21S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private

### 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) : Unknown	Volume Recovered (bbls): 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls): 0
	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: Evidence of unknown release identified during environmental lease inspection. Observed mud in pipeline ROW. Impacted area is approximately 2,214 sq. ft mapped by GPS with +/- 1-foot resolution.

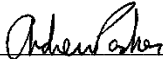
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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given 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>Andrew Parker</u> Title: <u>Environmental Scientist</u>
Signature: <u></u> Date: <u>Aug. 31, 2020</u>
email: <u>aparker@advanceenergypartners.com</u> Telephone: <u>970-570-9535</u>
<b><u>OCD Only</u></b>
Received by: <u>Ramona Marcus</u> Date: <u>9/1/2020</u>

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## Site Assessment/Characterization

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

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

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

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

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

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

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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: Andrew Parker

Title: Env. Scientist

Signature: 

Date: September 30, 2020

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

**OCD Only**

Received by: Cristina Eads

Date: 10/29/2020

Incident ID	NRM2024553731
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Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

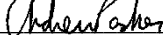
**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: September 30, 2020

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

### OCD Only

Received by: Cristina Eads

Date: 10/29/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: 01/22/2021

Printed Name: Cristina Eads

Title: Environmental Specialist



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

September 30, 2020

New Mexico Environmental Department  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RE: Closure Report  
Incident ID: NRM2024553731  
AEP #: 08312020-1431-prodops  
Location: In ROW SW of MSU 551 Pad

NMOCD:

Advance Energy Partners Hat Mesa LLC submits this closure report for the above referenced incident. We ask closure for the regulatory file.

The unauthorized release was discovered on August 31, 2020 in a right-of-way on surface owned by Merchant Livestock. Field investigations suggest that a hydrovac released excavated soil (Figure 1) after performing surface trenching for construction purposes for the installation of flowlines and electrical associated with oil and gas operations. The release extent covered 2,214 square feet. Figure 2 is a representative photo showing the released excavated material (source material) that flowed over the surface.



Figure 1: Photo of release viewing east-northeast from the southwestern extent of the release; along the east-west right-of-way. The Merchant State Unit 551H production pad is visible in photo background. GPS: 32.4409261 N, 103.5498500 W. Date/Time: 2020-08-31 14:29:53.

Incident ID: NRM2024553731  
AEP #: 08312020-1431-prodops



Figure 2: Source material that was released in the right-of-way. GPS: 32.4409261 N, 103.5498500 W. Date/Time: 2020-08-31 14:29:53.

## Characterization

On September 8, 2020; soil samples were collected in the four cardinal directions to horizontally and vertically delineate the release extent and one sample was collected within the source material (Plate 1). Soil samples were submitted for laboratory testing for the analysis of the constituents listed in Table 1 of 19.5.29 NMAC. As presented in Table A, all soil samples obtained for characterization, including the source material, were below the most stringent closure criteria listed in Table 1 of 19.15.29 NMAC.

### *Depth-to-Water*

The nearest water well (CP-01356 POD 1) is 1.1-miles west of the release area with a depth to water of 555 ft dated 08/09/2014. The Office of State Engineer well log is attached.

### *Significant Water Courses/Sources*

The nearest water source is mapped as an intermittent stream located 1-mile southwest of the release area.

### *Lithology*

Hand auger samples and excavation activities to a depth of 1-foot indicate surface soils are right-of-way backfill material composed of a reddish-brown silty sand and caliche.

## Remediation

On September 17, 2020; approximately 15 cubic yards of source material was excavated and hauled offsite for proper disposal (Figure 3).

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Figure 3: Excavation of source material - hauled off for proper disposal. Photograph is viewing west from eastern release extent. GPS: 32.4409283 N, 103.5496094 W. Date/Time: 2020-09-17 10:25:15

As the source material characterization sample was below the most stringent closure criteria listed in Table 1 of 19.15.29 NMAC, we divided the remediated area into two representative sections for the collection of confirmation samples on September 18, 2020. Confirmation samples were below the most stringent closure criteria listed in Table 1 of 19.15.29 NMAC. Plate 1 shows the location of confirmation samples (B-01 and B-02). Each confirmation sample represents a 5-point composite sample as represented in Figure 4.

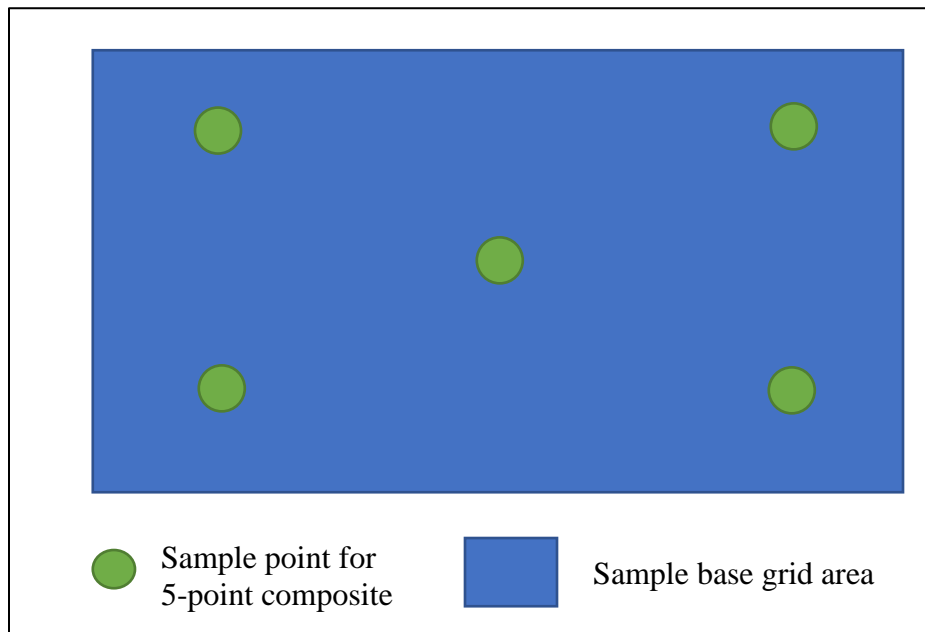


Figure 4: Example of 5-point sample base grid for composite sampling.

The surface was restored per 19.15.29.13 NMAC (Figure 5) as a right-of-way easement.

09/30/2020

Incident ID: NRM2024553731  
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Figure 5: Restored right-of-way surface. Viewing northeast toward the Merchant State Unit 551H production pad.  
GPS: 32.4409950 N, 103.5497922 W. Date/Time: 2020-09-17 10:40:52.

Please contact me with any questions.

Sincerely,

Andrew Parker  
Advance Energy Partners, LLC  
Environmental Scientist

Cc: Bradley Blevins, Merchant Livestock  
Clabe Pearson, Merchant Livestock

09/30/2020

M:\08312020-1431-prodops\arcGISpro\08312020-1431-prodops\arcGISpro\08312020-1431-prodops.aprx



0 20 40  
US Feet



Site Map

Plate 01

AEP#: 08312020-1431-prodops  
(In ROW SW of MSU 551 Pad)

09/30/2020

09/30/2020

Table A  
Summary of Analytical

Incident #: NRM2024553731  
AEP#: 08312020-1431-prodops

Sample ID	Date	Comments	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	In Use (Yes/No)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)
NMOCD Closure Criteria											
0 - 4 feet & "not in-use"							600	--	2,500	10	50
> 4 ft or "in-use"							20,000	1,000	2,500	10	50
HA-North	9/8/2020	Characterization		0.0	1.0	ROW	16	<22	<32	<0.05	<0.3
HA-South	9/8/2020	Characterization		0.0	1.0	ROW	16	<20	<30	<0.05	<0.3
HA-East	9/8/2020	Characterization		0.0	1.0	ROW	16	<20	<30	<0.05	<0.3
HA-West	9/8/2020	Characterization		0.0	1.0	ROW	16	<20	<30	<0.05	<0.3
HA-01	9/8/2020	Source Material	0.0			ROW	128	<20	<30	<0.05	<0.3
HA-01	9/8/2020	Below Source Material	1.0			ROW	16	<20	<30	<0.05	<0.3
B-01	9/18/2020	Confirmation	0.0			ROW	64	<20	<30	<0.05	<0.3
B-02	9/18/2020	Confirmation	0.0			ROW	32	<20	<30	<0.05	<0.3




# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
CP 01356	POD1	4 2 2	33	21S	33E	634560	3590014 

**Driller License:** 421**Driller Company:** GLENN'S WATER WELL SERVICE**Driller Name:** GLENN, CLARK A."CORKY"**Drill Start Date:** 08/01/2014**Drill Finish Date:** 08/09/2014**Plug Date:****Log File Date:** 08/25/2014**PCW Rcv Date:****Source:** Artesian**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 6.37**Depth Well:** 1098 feet**Depth Water:** 555 feet**Water Bearing Stratifications:****Top Bottom Description**

765	795	Sandstone/Gravel/Conglomerate
795	825	Shale/Mudstone/Siltstone
825	920	Sandstone/Gravel/Conglomerate
920	935	Shale/Mudstone/Siltstone
935	968	Sandstone/Gravel/Conglomerate
968	976	Shale/Mudstone/Siltstone
976	1005	Sandstone/Gravel/Conglomerate
1005	1092	Sandstone/Gravel/Conglomerate

**Casing Perforations:****Top Bottom**

735	1098
-----	------

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.

1/29/18 12:08 PM

Page 1 of 1

POD SUMMARY - CP 01356 POD1



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

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September 15, 2020

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: ROW NEAR MSU 551H

Enclosed are the results of analyses for samples received by the laboratory on 09/09/20 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
 ANDREW PARKER  
 11490 WESTHEIMER ROAD, STE. 950  
 HOUSTON TX, 77077  
 Fax To: (832) 672-4609

Received:	09/09/2020	Sampling Date:	09/08/2020
Reported:	09/15/2020	Sampling Type:	Soil
Project Name:	ROW NEAR MSU 551H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	08312020-1431-PRODOPS		

**Sample ID: HA - NORTH 0-1' (H002380-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2020	ND	2.17	109	2.00	4.41	
Toluene*	<0.050	0.050	09/09/2020	ND	2.16	108	2.00	4.85	
Ethylbenzene*	<0.050	0.050	09/09/2020	ND	2.14	107	2.00	4.67	
Total Xylenes*	<0.150	0.150	09/09/2020	ND	6.17	103	6.00	4.65	
Total BTEX	<0.300	0.300	09/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	16.0	16.0	09/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2020	ND	179	89.4	200	10.3	
DRO >C10-C28*	12.1	10.0	09/09/2020	ND	198	98.9	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	09/09/2020	ND					

Surrogate: 1-Chlorooctane 97.5 % 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:**

ADVANCE ENERGY PARTNERS  
 ANDREW PARKER  
 11490 WESTHEIMER ROAD, STE. 950  
 HOUSTON TX, 77077  
 Fax To: (832) 672-4609

Received:	09/09/2020	Sampling Date:	09/08/2020
Reported:	09/15/2020	Sampling Type:	Soil
Project Name:	ROW NEAR MSU 551H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	08312020-1431-PRODOPS		

**Sample ID: HA - SOUTH 0-1' (H002380-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2020	ND	2.17	109	2.00	4.41	
Toluene*	<0.050	0.050	09/09/2020	ND	2.16	108	2.00	4.85	
Ethylbenzene*	<0.050	0.050	09/09/2020	ND	2.14	107	2.00	4.67	
Total Xylenes*	<0.150	0.150	09/09/2020	ND	6.17	103	6.00	4.65	
Total BTX	<0.300	0.300	09/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	09/09/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2020	ND	179	89.4	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/09/2020	ND	198	98.9	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	09/09/2020	ND					

Surrogate: 1-Chlorooctane 97.8 % 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:**

ADVANCE ENERGY PARTNERS  
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Reported:	09/15/2020	Sampling Type:	Soil
Project Name:	ROW NEAR MSU 551H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	08312020-1431-PRODOPS		

**Sample ID: HA - EAST 0-1' (H002380-03)**

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	09/09/2020	ND	2.17	109	2.00	4.41	
Toluene*	<0.050	0.050	09/09/2020	ND	2.16	108	2.00	4.85	
Ethylbenzene*	<0.050	0.050	09/09/2020	ND	2.14	107	2.00	4.67	
Total Xylenes*	<0.150	0.150	09/09/2020	ND	6.17	103	6.00	4.65	
Total BTEx	<0.300	0.300	09/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	16.0	16.0	09/09/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2020	ND	179	89.4	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/09/2020	ND	198	98.9	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	09/09/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 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:**

ADVANCE ENERGY PARTNERS  
 ANDREW PARKER  
 11490 WESTHEIMER ROAD, STE. 950  
 HOUSTON TX, 77077  
 Fax To: (832) 672-4609

Received:	09/09/2020	Sampling Date:	09/08/2020
Reported:	09/15/2020	Sampling Type:	Soil
Project Name:	ROW NEAR MSU 551H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	08312020-1431-PRODOPS		

**Sample ID: HA - WEST 0-1' (H002380-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2020	ND	1.93	96.3	2.00	5.69		
Toluene*	<0.050	0.050	09/10/2020	ND	1.95	97.6	2.00	5.89		
Ethylbenzene*	<0.050	0.050	09/10/2020	ND	1.89	94.7	2.00	6.91		
Total Xylenes*	<0.150	0.150	09/10/2020	ND	5.42	90.4	6.00	7.06		
Total BTEx	<0.300	0.300	09/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	16.0	16.0	09/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2020	ND	179	89.4	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/09/2020	ND	198	98.9	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	09/09/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 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:**

ADVANCE ENERGY PARTNERS  
 ANDREW PARKER  
 11490 WESTHEIMER ROAD, STE. 950  
 HOUSTON TX, 77077  
 Fax To: (832) 672-4609

Received:	09/09/2020	Sampling Date:	09/08/2020
Reported:	09/15/2020	Sampling Type:	Soil
Project Name:	ROW NEAR MSU 551H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	08312020-1431-PRODOPS		

**Sample ID: HA - 01 0' (H002380-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2020	ND	1.93	96.3	2.00	5.69	
Toluene*	<0.050	0.050	09/10/2020	ND	1.95	97.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/10/2020	ND	1.89	94.7	2.00	6.91	
Total Xylenes*	<0.150	0.150	09/10/2020	ND	5.42	90.4	6.00	7.06	
Total BTX	<0.300	0.300	09/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	128	16.0	09/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2020	ND	179	89.4	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/09/2020	ND	198	98.9	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	09/09/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
 ANDREW PARKER  
 11490 WESTHEIMER ROAD, STE. 950  
 HOUSTON TX, 77077  
 Fax To: (832) 672-4609

Received:	09/09/2020	Sampling Date:	09/08/2020
Reported:	09/15/2020	Sampling Type:	Soil
Project Name:	ROW NEAR MSU 551H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	08312020-1431-PRODOPS		

**Sample ID: HA - 01 1' (H002380-06)**

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	09/10/2020	ND	1.93	96.3	2.00	5.69		
Toluene*	<0.050	0.050	09/10/2020	ND	1.95	97.6	2.00	5.89		
Ethylbenzene*	<0.050	0.050	09/10/2020	ND	1.89	94.7	2.00	6.91		
Total Xylenes*	<0.150	0.150	09/10/2020	ND	5.42	90.4	6.00	7.06		
Total BTEx	<0.300	0.300	09/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	16.0	16.0	09/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2020	ND	179	89.4	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/09/2020	ND	198	98.9	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	09/09/2020	ND					

Surrogate: 1-Chlorooctane 98.3 % 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

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 9



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Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Advance Energy Partners	<b>BILL TO</b> <b>ANALYSIS REQUEST</b>
Project Manager:	Andrew Parker	
Address:	On-File	
City:	State: Zip:	
Phone #:	Fax #:	
Project #:	Project Owner:	
Project Name:	ROW near MSN 5514	
Project Location:	08312020-1431-prodqs	
Sampler Name:	Jacob Saenz	
Fax #:		
Company:	AEP	
Attn:	Send to	
Address:	A.parker@advance	
City:	energypartners.com	
State:	Zip:	
Phone #:		
Fax #:		

FOR LAB USE ONLY		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	CHLORIDE	TPH (GRO+DR)	BENZENE, BT
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE TIME			
H002386	HA-North	O-1FT	C	1				9/8/20	9am	X	X
	HA-South	O-1FT		1					9:30am	X	
	HA-East	O-1FT		1					10am	X	
	HA-West	O-1FT		1					10:30am	X	
	HA-O1	OFT	G	1					11am	X	
	HA-O1	1FT	E	1					11:30am	X	

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Relinquished By: <i>SAcOB SAENZ</i>	Date: <i>9-9-20</i>	Received By: <i>Lawrence Chabry</i>	Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
	Time: <i>0845</i>		Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:			
Time:						
Delivered By: (Circle One)	Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <i>4.0c #113</i>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<i>YO</i>			

**† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326**



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---

September 23, 2020

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: ROW NEAR MSU 551H

Enclosed are the results of analyses for samples received by the laboratory on 09/18/20 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
 ANDREW PARKER  
 11490 WESTHEIMER ROAD, STE. 950  
 HOUSTON TX, 77077  
 Fax To: (832) 672-4609

Received:	09/18/2020	Sampling Date:	09/18/2020
Reported:	09/23/2020	Sampling Type:	Soil
Project Name:	ROW NEAR MSU 551H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	08312020-1431-PRODOPS		

**Sample ID: B - 01 0' (H002497-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2020	ND	2.16	108	2.00	1.05	
Toluene*	<0.050	0.050	09/21/2020	ND	2.20	110	2.00	1.07	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.19	109	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.28	105	6.00	1.16	
Total BTEX	<0.300	0.300	09/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	09/21/2020	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2020	ND	180	89.8	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/21/2020	ND	180	90.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
 ANDREW PARKER  
 11490 WESTHEIMER ROAD, STE. 950  
 HOUSTON TX, 77077  
 Fax To: (832) 672-4609

Received:	09/18/2020	Sampling Date:	09/18/2020
Reported:	09/23/2020	Sampling Type:	Soil
Project Name:	ROW NEAR MSU 551H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	08312020-1431-PRODOPS		

**Sample ID: B - 02 0' (H002497-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/21/2020	ND	2.16	108	2.00	1.05		
Toluene*	<0.050	0.050	09/21/2020	ND	2.20	110	2.00	1.07		
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.19	109	2.00	1.10		
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.28	105	6.00	1.16		
Total BTEX	<0.300	0.300	09/21/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	32.0	16.0	09/21/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2020	ND	180	89.8	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/21/2020	ND	180	90.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

Cardinal Laboratories

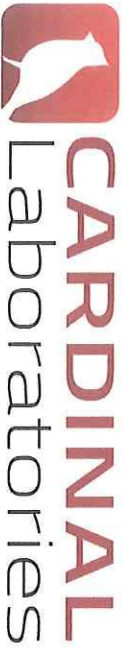
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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 3



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

[illegible]

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1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 10905

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
ADVANCE ENERGY PARTNERS HAT ME			372417	10905	C-141
11490 Westheimer Rd., Ste 950			Houston, TX77077		
OCD Reviewer			Condition		
ceads			None		