



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

Transmittal Letter

November 5, 2021

RE: Closure report not recorded in OCD Imaging
Incident ID: nAB1916835666
AEP #: 05252019-0000-unknown
Location: Merchant State Unit #504H Tank Battery

NMOCD:

During an internal audit of closure report status Advance Energy Partners (AEP) identified eight closure reports not recorded in OCD Imaging. AEP is resubmitting these closure reports via the online fee portal.

The remediation and closure report for Incident nAB1916835666 was completed on August 15, 2019. Since the completion of the remediation and closure report, AEP conducted a depth-to-water determination program discussed below.

Depth to Water Determination

In September/October 2021, Advance Energy initiated a depth-to-water boring program to determine whether depth-to-water is present in the upper 100-feet of the surface soil profile. Nine (9) boreholes were advanced between 103 to 106-feet below ground surface, rested for at least 72-hours, and gauged for the presence of groundwater. The nearest boring is located 270-feet east-northeast of the release. The boring is identified as MISC-404 (CP-1887). No groundwater was detected within the upper 100-feet. Figure 2 (revised) is an updated depth-to-water map. The driller log is attached.

AEP respectfully asks NMOCD for closure of the regulatory file with deferment. The C-141 Closure Form is attached.

Sincerely,

A handwritten signature in black ink that reads "Andrew Parker".

Andrew Parker
Environmental Scientist

Incident ID	nAB1916835666
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? Plate 4 & 5	<u>154</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input 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 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.

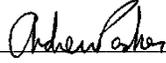
State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAB1916835666
District RP	
Facility ID	
Application ID	

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

Printed Name: Andrew Parker Title: Sr. Env. Specialist

Signature:  Date: November 5, 2021

email: aparker@advanceenergypartners.com Telephone: 970-570-9535

OCD Only

Received by: _____ Date: _____

Incident ID	nAB1916835666
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Application ID	

Remediation Plan

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

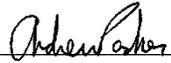
- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation 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.

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Printed Name: Andrew Parker Title: Sr. Env. Specialist

Signature:  Date: November 5, 2021

email: aparker@advanceenergypartners.com Telephone: 970-570-9535

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Incident ID	nAB1916835666
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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: Sr. Env. Specialist

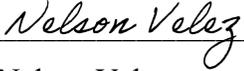
Signature:  Date: November 5, 2021

email: aparker@advanceenergypartners.com Telephone: 970-570-9535

OCD Only

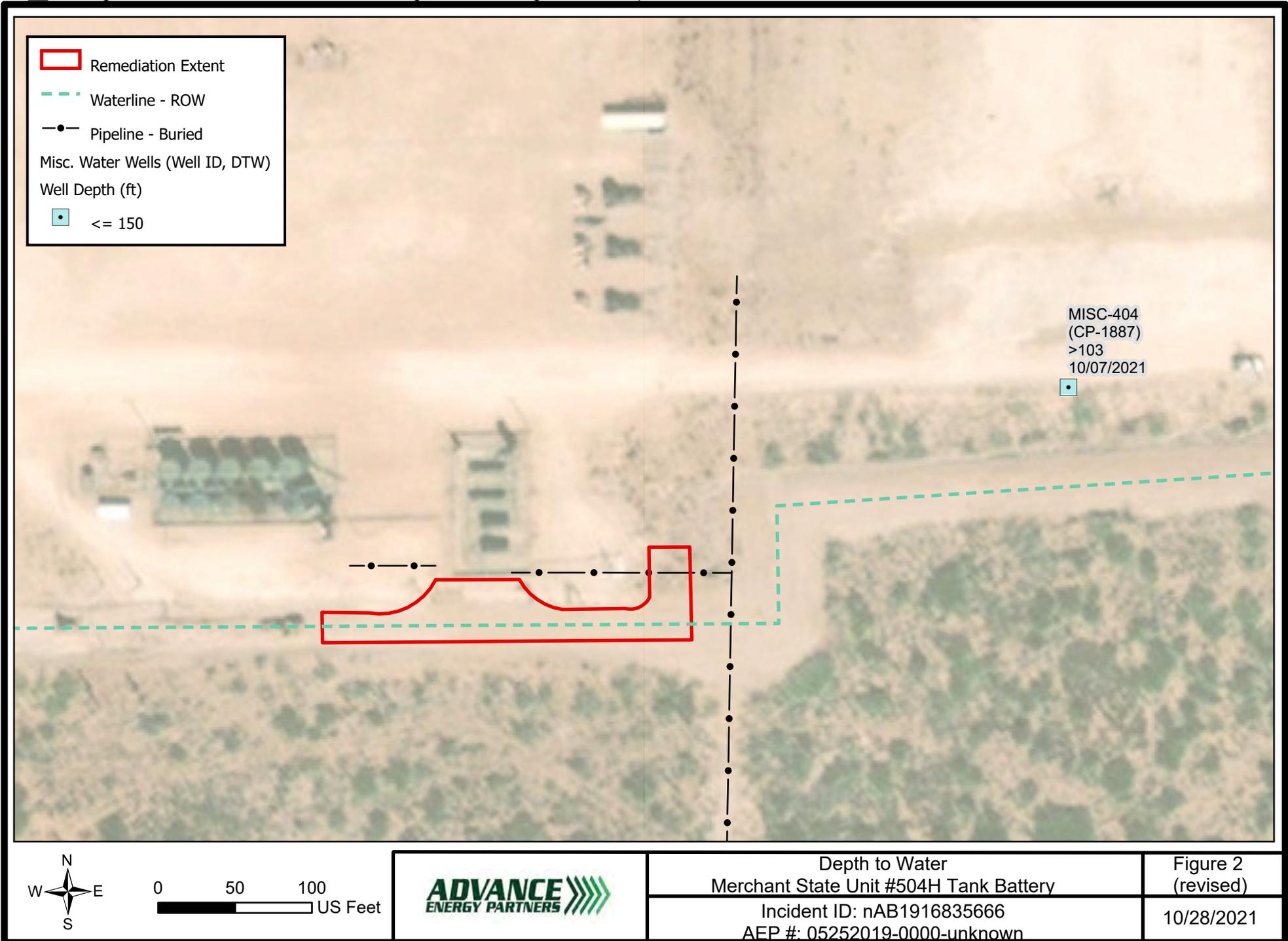
Received by: _____ Date: _____

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: 01/07/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

M:\ Pending NMOCD\05252019-0000-unknown\arcgisPro504H\arcgisPro504H.aprx





2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

08/29/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1887 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1887 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive style.

Lucas Middleton

Enclosures: as noted above

USE DIT NOV 1 2021 PM 2:43



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1887			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Stuit 950				CITY Houston	STATE TX	ZIP 77077	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 26	29.53	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE	103	32	14.57	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NE NE Sec. 35 T21S R33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED 10/07/2021	DRILLING ENDED 10/07/2021	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 103	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	103	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

USE 311 N30 2021 pnc12.3

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/17)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2	

2021-10-27_CP-1887_OSE_Well Record and Log-for sign

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAJbvrfK4AaOE3rMPE3Q4ETnuBZ8bY6U0w

"2021-10-27_CP-1887_OSE_Well Record and Log-for sign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-29 - 3:56:13 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:57:38 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:15:46 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:16:29 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-29 - 4:16:29 PM GMT

OSE SIGNATURE 2021-10-29





PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1887-POD1

Well owner: Advanced Energy Partners Phone No.: 832.672.4700

Mailing address: 11490 Westheimer Rd. Stuit 950

City: Houston State: Texas Zip code: 77077

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Carmelo Trevino, Cameron Pruitt
- 4) Date well plugging began: 10-14-2021 Date well plugging concluded: 10-14-2021
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 29.53 sec
Longitude: 103 deg, 32 min, 14.57 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 103 ft below ground level (bgl),
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 07/12/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

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10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	15.6 gallons	15 gallons	Augers	
10'-103'	Drill Cuttings	Approx. 147 gallons	147gallons	Boring	

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MULTIPLY	BY	AND OBTAIN
cubic feet x	7.4805	= gallons
cubic yards x	201.97	= gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jackie Atkins

10/27/2021

Signature of Well Driller

Date

2021-10-27_CP-1887_WD-11 Plugging Record-forsign

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAdCweMFDf8Y1erfSiXmrU36TYmU-GuTyP

"2021-10-27_CP-1887_WD-11 Plugging Record-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
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-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:57:47 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:15:04 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:15:31 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-29 - 4:15:31 PM GMT

CSE DTI NOV 2 2021 PM 4:43



August 15, 2019

1RP-5544 Closure Report MSU 504/505H Tank Battery



**Prepared for
Advance Energy Partners Hat Mesa LLC
Houston, Texas**

**Prepared by
R.T. Hicks Consultants, Ltd.
Albuquerque, New Mexico**

C-141

Closure Form and Report

R.T. Hicks Consultants, Ltd.
901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAB1916835666
District RP	1RP-5544
Facility ID	
Application ID	pAB1916832985

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) NAB1916835666
Contact mailing address 11490 Westheimer Rd, Ste 950, Houston, TX 77077	

Location of Release Source

Latitude 32.441020 _____ Longitude -102.527472 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Merchant State Unit 504 Battery	Site Type Production Battery
Date Release Discovered 5/25/2019	API# (if applicable) 30-025-45267

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

Surface Owner: State Federal Tribal Private (Name: Merchant Livestock Co. _____)

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) 90 bbls	Volume Recovered (bbls) 80 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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

Oil overflowed through an open gas sales line while oil was being transferred to the battery for initial startup. Oil was outside the containment area. All free oil was recovered with a vac truck that was onsite at the time of the release.

Incident ID	NAB1916835666
District RP	1RP-5544
Facility ID	
Application ID	pAB1916832985

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? > 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by email to :** This email is to provide notification that Advance Energy Partners Hat Mesa had a major oil release today at the MSU 504 battery during initial startup operations. All immediate actions have been completed* emnrd-ocd-district1spills@state.nm.us	

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>David Harwell</u> Title: <u>VP Engineering & Operations</u> Signature: <u></u> Date: <u>5/25/19</u> email: <u>_dharwell@advanceenergypartners.com</u> Telephone: <u>281-235-3431</u>
<u>OCD Only</u> Received by: <u>Amalia Bustamante</u> Date: <u>6/17/2019</u>

Incident ID	
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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?	_154_ (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
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Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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- 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
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Printed Name: Andrew Parker Title: Sr. Env. Specialist

Signature: David Andrew Parker Date: _____

Digitally signed by David Andrew Parker
DN: cn=David Andrew Parker, o, ou,
email=andrew@rthicksconsult.com, c=US
Date: 2019.08.14.14:59:52 -0600'

email: andrew@rthicksconsult.com Telephone: 970-570-9535

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Andrew Parker Title: Sr. Env. Specialist

Signature: David Andrew Parker Date: _____

Digitally signed by David Andrew Parker
DN: cn=David Andrew Parker, o, ou,
email=andrew@rthicksconsult.com, c=US
Date: 2019.08.14 15:00:44 -06'00

email: andrew@rthicksconsult.com Telephone: 970-570-9535

OCD Only

Received by: _____ Date: _____

- Approved
 Approved with Attached Conditions of Approval
 Denied
 Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
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: Sr. Env. Specialist
 Signature: Digitally signed by David Andrew Parker Date: _____
Date: 2019.08.14 15:01:22 -06'00'
 email: andrew@rthicksconsult.com Telephone: 970-570-9535

OCD Only

Received by: _____ Date: _____

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: Nelson Velez Date: 01/07/2022
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv

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August 15, 2019

NMOCD District 1 (vacant)

District 1 - HOBBS

1625 N. French Drive

Hobbs, New Mexico 88240

Via Email:

emnrd-ocd-district1spills@state.nm.us

Bradford Billings

Environmental Bureau

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

Via Email:

bradford.billings@state.nm.us

RE: 1RP-5544 - Characterization and Closure Report
504/505H Merchant State Unit Tank Battery Release
Advance Energy Partners Hat Mesa, LLC

NMOCD:

R.T. Hicks Consultants submits this characterization, remediation and closure report on the behalf of Advance Energy Partners Hat Mesa, LLC (Advance Energy).

The release occurred on May 25, 2019. Initial characterization began on June 6, 2019 and remediation was completed by July 02, 2019. The C-141 including the Characterization and Closure Forms is attached.

We respectfully ask NMOCD for :

- Deferment approval for the area under the tank battery, and
- Closure of the regulatory file for the non-deferred area.

Hick Consultants relied on 19.15.29 NMAC for characterization, remediation, and closure reporting for the above referenced release.

The location of the release is 32.441020, -102.527472 (Latitude/Longitude; NAD 83); Unit Letter B, Sec 35, T-21S., R-33E; Lea County.

The release occurred within silty sands with a hard caliche layer at 4.5 to 5.5 feet below ground surface.

The report is divided into three sections:

- I. Initial Response
- II. Characterization
- III. Remediation and Closure

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Page 2

MSU 504/505H Tank Battery
1RP-5544

Figures

- Figure 1 – Site Map with Initial Characterization Sample Locations
- Figures 2 through 10 – As labeled on the C-141 Characterization Checklist
- Figure 11 – Remediation Extent with Confirmation Sample Grid

Tables

- Table 1 – Nearby OSE Well Summary
- Table 2 – Initial Sampling Data
- Table 3 – Final Excavation Confirmation Sampling Data

Appendices

- Appendix A - Laboratory Certificate of Analyses
- Appendix B – OSE Well Logs

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August 15, 2019
Page 3

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1RP-5544

I. Initial Response

The release occurred on May 25, 2019. Eighty of ninety barrels of crude oil was recovered. The upper few inches of impacted soil were removed and stockpiled for offsite disposal during remediation activities.

R.T. Hicks Consultants characterized and delineated the release on June 06, 2019. The release flowed along the southern edge of the tank battery containment wall and downslope to the southern edge of the pad. Pooling occurred at the southeast edge of disturbance (Photo #1). The release extent is shown on Figure 1. Hand auger sample HA-08 was obtained within the southeast area of pooling.



Photo 1: Crude oil release viewing from the southern edge of the tank battery containment. Photograph is viewing east-southeast. Date: May 25, 2019

Table 1 is a summary of analytical data collected during the initial characterization. Appendix A contains the laboratory Certificates of Analyses.

Results of the characterization soil sampling are discussed in *Section II.5 Soil Waste Characteristics*, below.

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1RP-5544

II. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Figures 2-10).

1. Site Map

Horizontal extent was determined by photographs obtained by Advance Energy personnel immediately after the release and by recent surface removal and grading of impacted soil. Figure 1 shows the release and excavation extent relative to

- the release point (source)
- hand auger samples during characterization
- flow lines and tank batteries
- release and excavation extent

2. Depth to Ground Water

Most recent depth to water data was queried from the USGS and New Mexico Office of the State Engineer (OSE) online databases (Figure 2). Spatial analysis shows:

- The nearest water well is located 1.2-miles northeast of the release; identified as CP-00600 (POD 1). Two nearby wells, MISC-71 and USGS-15399 are likely the same well. These wells lie within a drainage and at the western base of Gamma Ridge. The observed ground water is likely a localized perched groundwater zone. Depth to water at this well cluster in approximately 56-feet below ground surface (bgs).
- The next two nearest water wells with recorded depth to water are located
 - 1.69-miles northwest (CP-01355 POD 1) with a depth to water of 582-feet.
 - 1.75-miles northwest (CP-01357 POD 1) with a depth to water of 578- feet.

Review of well logs available from the New Mexico Office of the State Engineer (OSE) online database (Table 1) shows that the regional depth to the top of the water-bearing zone exceeds 700 feet below land surface, as shown in the “top of water bearing strata” column. Appendix B contains well logs available online from the OSE.

OSE well logs show that water wells that are representative of the regional area have a minimum of 155 feet of pressure head above the confining layer. It is important to recognize that at CP-01355 POD1 ground water is at a depth of 925 feet and confining pressure causes the water column to rise 343 feet for a perceived depth to water of 582 feet bgs.

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Ground water flow is to the southwest as demonstrated on the potentiometric map (Figure 3). We relied on the USGS water wells to generate the potentiometric surface. Regionally, USGS water wells show that ground water is within the Santa Rosa and Chinle Formation.

The potentiometric surface indicates that the depth to water, which is under artesian flow, is approximately 154-feet below ground surface, where
154 feet = 3664 ft surface elevation – 3510 ft potentiometric surface.

3. Wellhead Protection Area

Figure 4 shows that the release extent is not:

- Within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within ½-mile private and domestic water sources (wells and springs).
 - CP-01411 (POD1) is ½-mile from the release extent. BC Operating is the owner of the well and the OSE database lists the use as “Exploration”.
- 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
- Within 1000 feet of any other fresh water well or spring

4. Distance to Nearest Significant Water Course

Figure 5 shows that the release extent is not:

- Within ½ mile of any significant water course.
- Within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

5. Soil/Waste Characteristics

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and within:

- a pipeline ROW,
- tank battery and well pad area of disturbance (Photo #2), and
- adjacent to and south of a tank battery

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Photo 2: Release extent along southern edge of area of disturbance viewing east. Initial response surface grading is visible in foreground. GPS: 32.4411361N, -103.5389639W. Date/Time: 2019-06-06 15:45:34

Advance Energy elected to reclaim (not in-use) all impacted soils rather than to restore the surface for areas in-use.

According to Table 1 of 19.15.29 NMAC, closure criteria limits are as follows:

Table 1 19.15.29 NMAC		Chloride	GRO+DRO	TPH+Ext	BTEX	Benzene
DTW > 100ft		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Closure Criteria	0-4 ft (not in-use)	600	1,000	2,500	50	10
Closure Criteria	>4 ft or "in-use"	20,000	1,000	2,500	50	10

Recent surface grading from immediate spill response and soil sampling was employed to delineate and characterize the release extent. Figure 1 shows the release extent and characterization hand auger sample locations HA-01 through HA-08.

Initial soil samples were obtained using a hand auger to a depth of 5.5 feet bgs (Photo #3).

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Photo 3: HA-07 at the source of the release near the southeast corner of the tank battery containment. Date/Time: 2019-06-06 17:43:32. GPS: 32.4412083 N , -103.5385278 W

Table 2 shows the analytical results of the initial characterization sampling. Chloride concentrations were below NMOCD's Table 1 Closure Criteria. Hydrocarbon constituents exceeded Closure Criteria at HA-05 and HA-07.

The Laboratory Certificate of Analyses are located in Appendix A.

Hand auger sampling and excavation showed the lithology as:

- 0 - 5.5 ft : Silty Sand, medium brown, loose.
- 5.5 ft : Caliche, white, dense.

III. Remediation and Closure

1. Excavation Protocol

All surfaces were remediated in accordance with 19.15.29.13 NMAC with the exception of a 20-foot long section underneath the southwest tank battery containment wall, near the source of the release (sample points HA-07/G-14), which is discussed in more detail below.

The excavation was gridded with centroids of each grid spaced 20-feet +/- 5 feet on-center. Figure 11 shows the sample grid centroids G-01 through G-14.

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1RP-5544

Five-point composite soil samples were collected at the north, south, east, and west walls of the excavation grid from 0 to 4 feet. If soil sample results exceeded Closure Criteria at the excavation walls, the excavation wall was extended horizontally and resampled. Horizontal excavation continued until subsequent sampling showed chloride and hydrocarbon constituents below Closure Criteria. Excavation depth was determined by 5-point composite sampling of the grid's base. Vertical excavation continued until the base of the excavation exhibited constituents of concern below Table 1 Closure Criteria concentrations.

Excavated soil was transported to Lea Land, Inc. or R360 for proper disposal. Clean backfill soil was purchased from the land owner under a Surface Use Agreement.

2. Remediation Activities

The excavation extent is L-shaped and covers a surface area of 816 square yards with an excavated volume of approximately 1,000 cu. yards.

Table 3 is a summary of analytical of confirmation sampling for each grid. Grids G-01 through G-13 and G-14 (base and east wall only) excavation walls and bases exhibit:

- TPH (GRO/DRO) < 100 mg/kg
- TPH Ext. (GRO/DRO/MRO) < 100 mg/kg
- Benzene < 10 mg/kg
- BTEX < 50 mg/kg

At grid G-14 Containment Wall (north wall) that is adjacent to and underneath the southeastern corner of the tank battery containment wall (source area), TPH exceeds Table 1 Closure Criteria, where

- TPH (GRO/DRO) exhibits 3157 mg/kg
- TPH Ext. exhibits 3728 mg/kg

from 0 to 2 feet below ground surface (bgs). From 2 to 4.5 feet bgs TPH is below laboratory detection levels. Chloride, BTEX and Benzene is below Closure Criteria from 0 to 4.5 feet.

Per 19.15.29.12.C(2),

If contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations...

Photo #4 shows that G-14 Containment Wall is located immediately under production tanks. **Therefore, we ask NMOCD for deferment of this 2 x 20-foot wall section.** Final remediation and reclamation shall take place in accordance

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Page 9

MSU 504/505H Tank Battery
1RP-5544

with 19.15.29.12 and 19.15.29.13 NMAC after the tank battery is decommissioned and is no longer being used for oil and gas operations.



Photo 4: The red box outlines G-14 Containment Wall (north wall) that is located immediately underneath the tank battery's southern containment wall. Excavation depth is 4.5 feet. TPH exceeds Table 1 Closure Criteria from 0 to 2 feet. The caliche pad is approximately 1-foot thick. G-13 is to the left (west) of G-14 (red outline). Date/Time: 2019-06-25 18:31:01. GPS: 32.4411722 N , -103.5385194 W.

Photo 5, 6 and 7, below, are photographs of the excavation and backfill.

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MSU 504/505H Tank Battery
1RP-5544



Photo 5: Excavation from G-01 viewing south toward G-04. A pipeline (G-02) is visible foreground center. Excavation depth from north to south is 4.5, 6.5, 7.5 and 5 feet below ground surface. Date/Time: 2019-06-19 09:06:56. GPS: 32.4412639 N , -103.5382778 W



Photo 6: Backfilled excavation south of the tank battery, viewing west-southwest from G-14 East Wall. Date/Time: 2019-07-08 08:39:52. GPS: 32.4411306N, -103.5384667 W

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August 15, 2019
Page 11

MSU 504/505H Tank Battery
1RP-5544



**Photo 7: Backfilled excavation viewing east from G-11. Date/Time: 2019-07-08 08:42:17
GPS: 32.4411667 N , -103.5388806 W**

Please contact me with any questions at andrew@rthicksconsult.com or 970-570-9535.

Sincerely,
R.T. Hicks Consultants, Ltd.

Handwritten signature of Andrew Parker

Andrew Parker
Sr. Env. Specialist

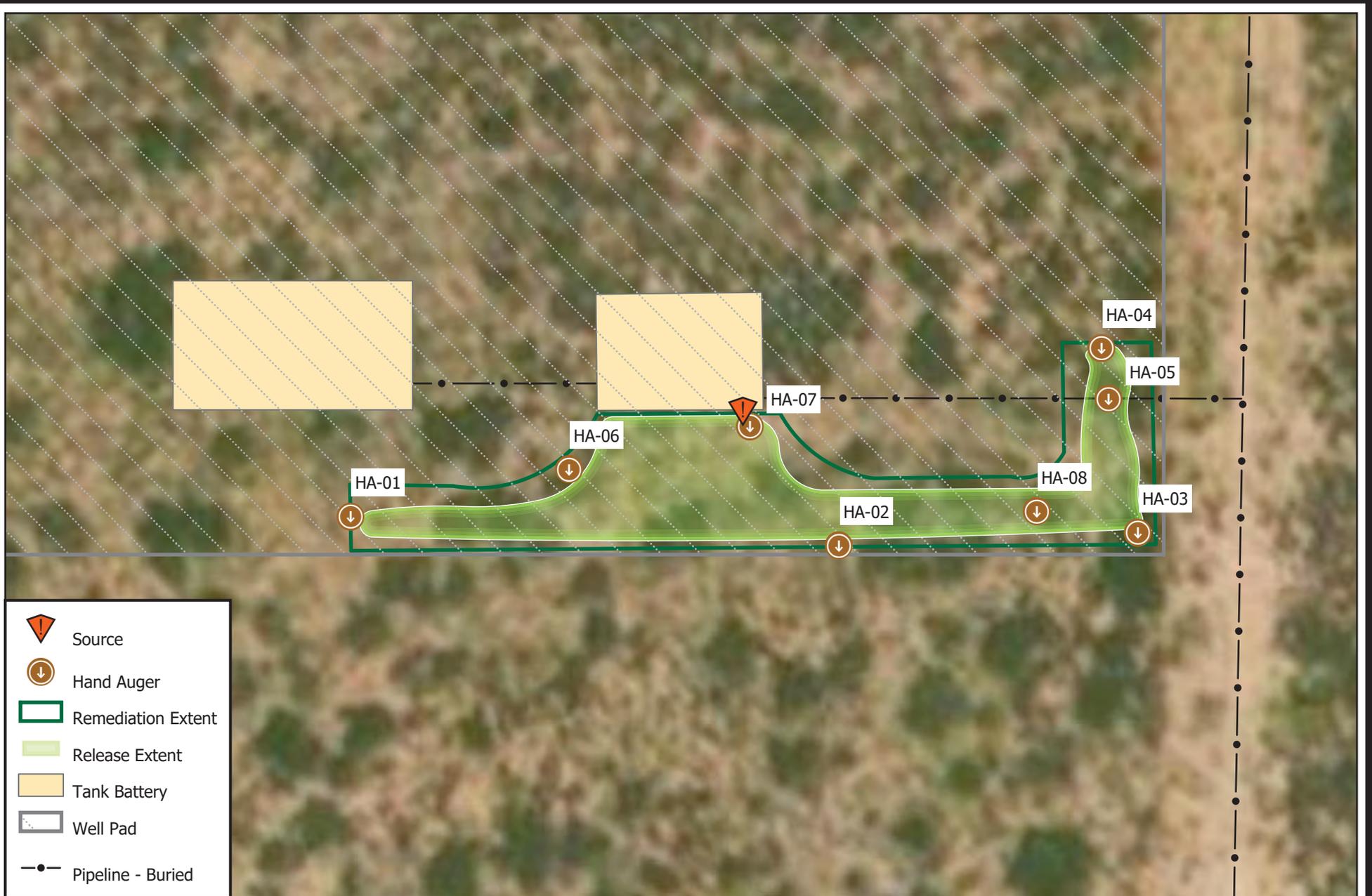
Copy: David Harwell (DHarwell@advanceenergypartners.com)
Advance Energy Partners Hat Mesa, LLC
Clabe Pearson (clabe@merchantlivestock.com); Merchant Livestock
Brad Blevins (bblevins5252@gmail.com); Merchant Livestock

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Figures

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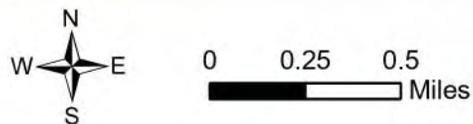
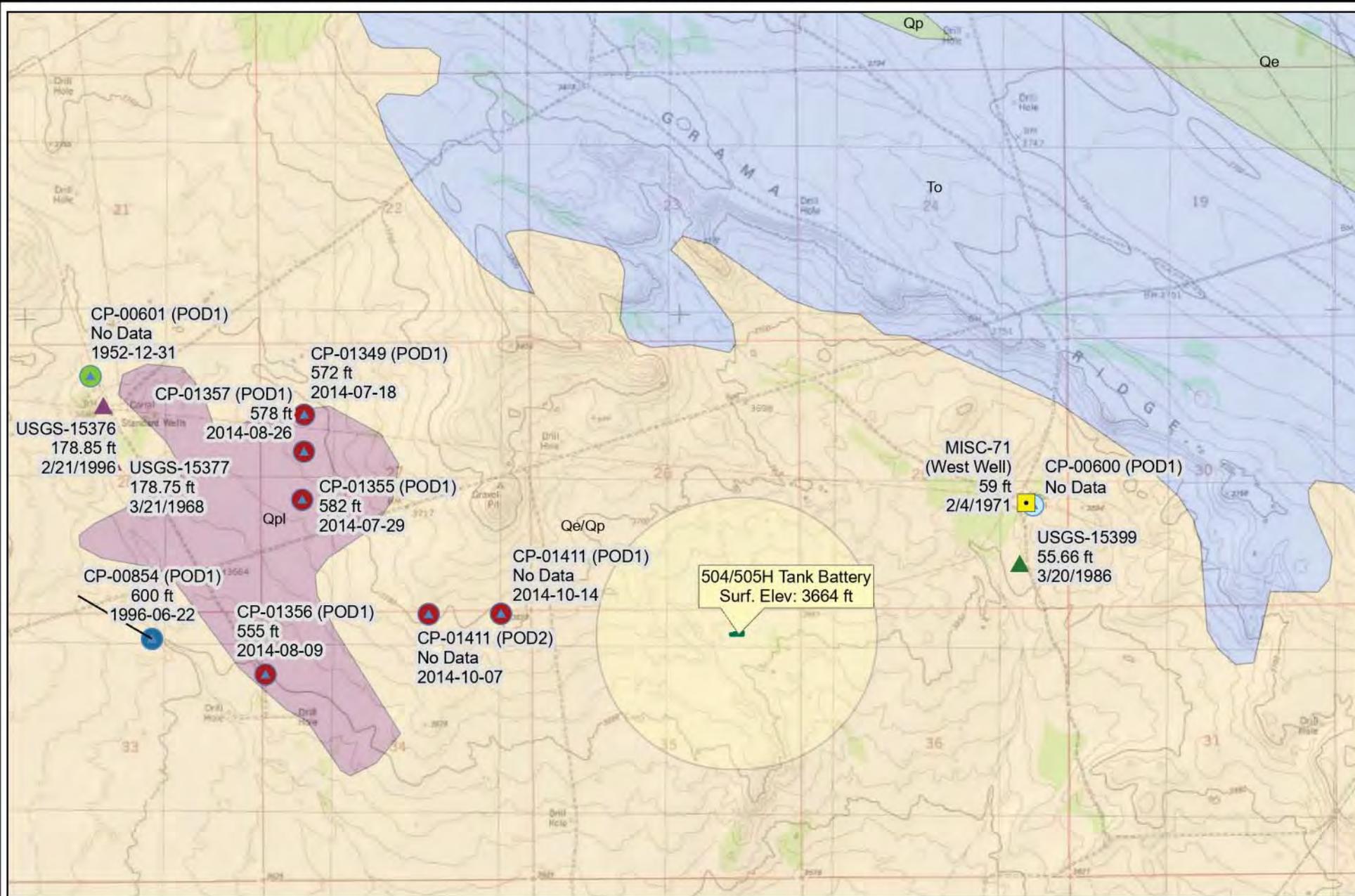


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US Feet

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Site Map and Characterization Sample Locations
 Advance Energy Partners Hat Mesa, LLC
 1RP-5544. 504/505H Tank Battery Release

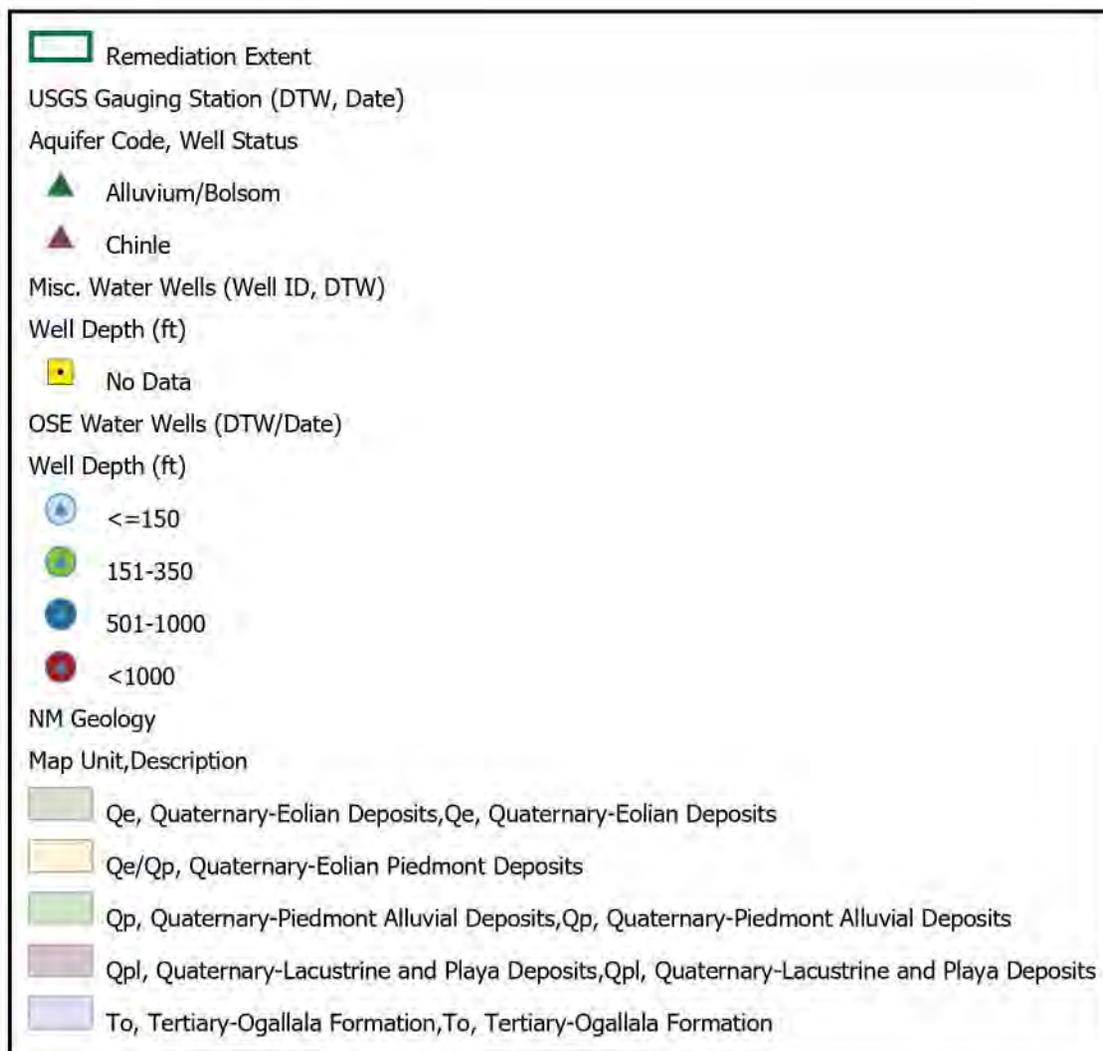
Figure 1
 July 2019



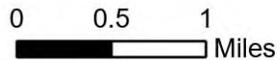
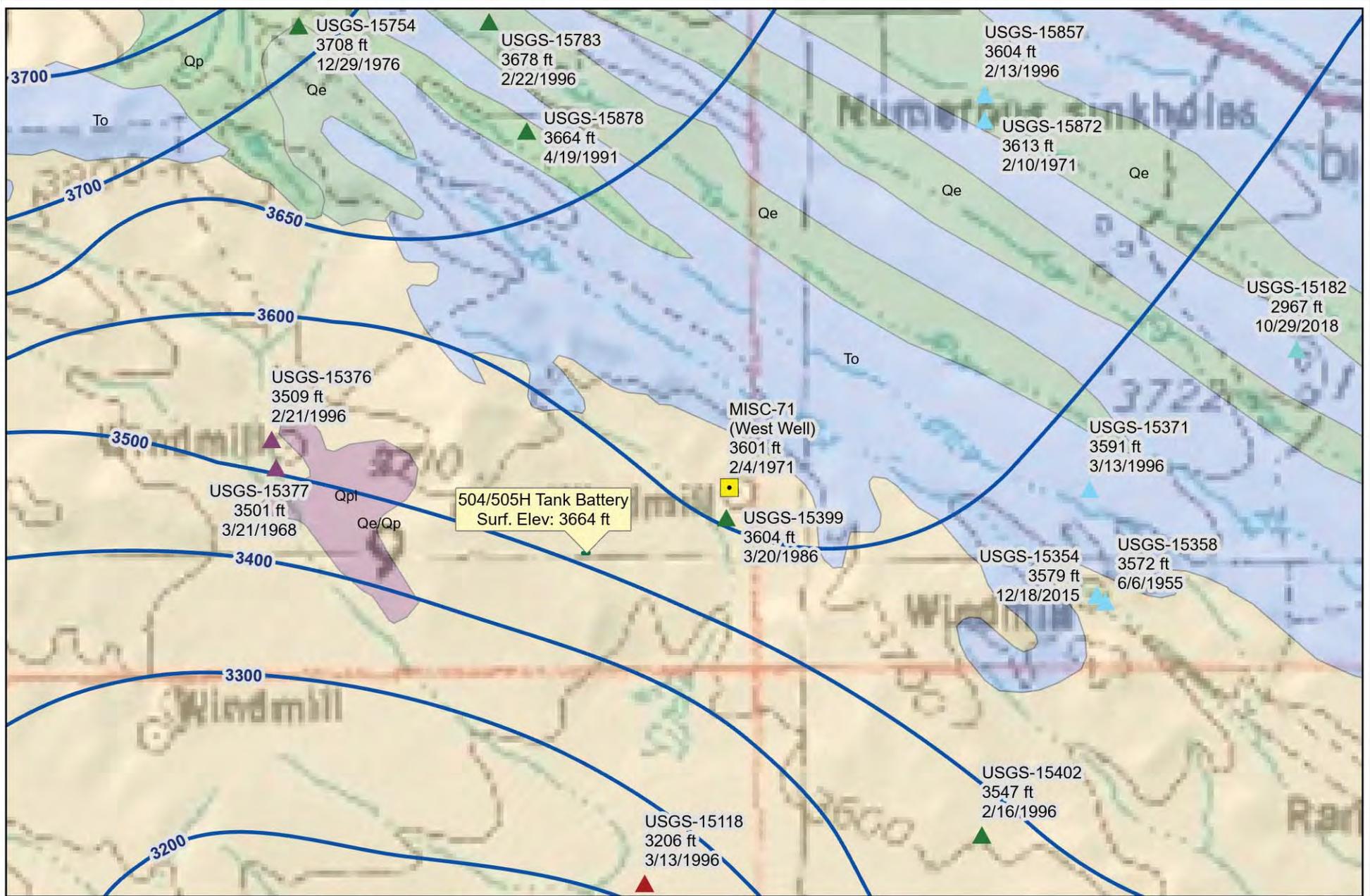
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Depth to Water with Geology
 Advance Energy Partners Hat Mesa, LLC
 1RP-5544. 504/505H Tank Battery Release

Figure 2
 August 2019



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Depth to Water with Geology	Figure 2 LEGEND
	Advance Energy Partners Hat Mesa, LLC 1RP-5544. 504/505H Tank Battery Release	August 2019



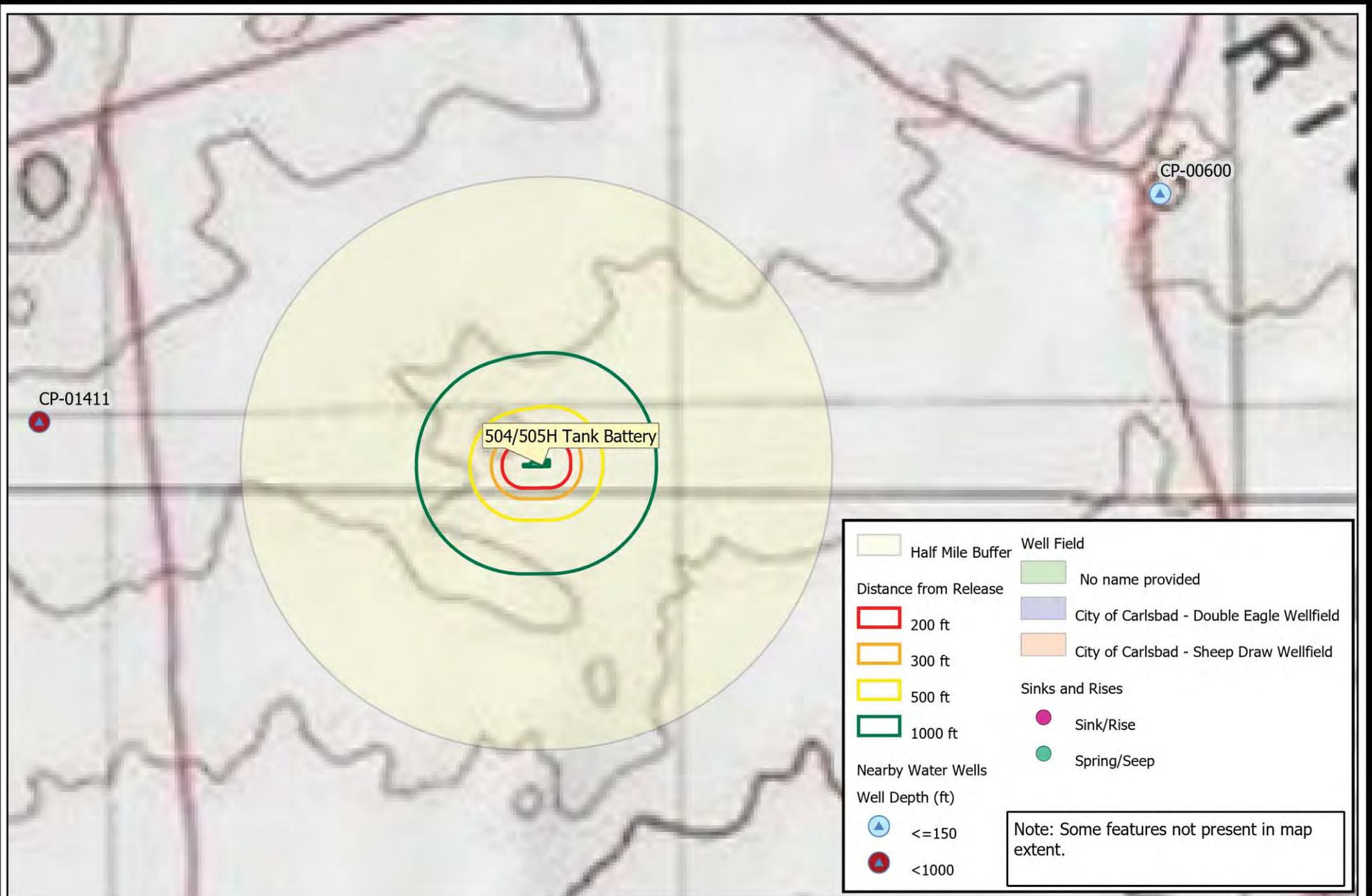
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Potentiometric Surface with Geology
 Advance Energy Partners Hat Mesa, LLC
 1RP-5544. 504/505H Tank Battery Release

Figure 3
 August 2019



<p><u>R.T. Hicks Consultants, Ltd</u> 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004</p>	<p>Potentiometric Surface with Geology</p>	<p>Figure 3 LEGEND</p>
	<p>Advance Energy Partners Hat Mesa, LLC 1RP-5544. 504/505H Tank Battery Release</p>	<p>August 2019</p>

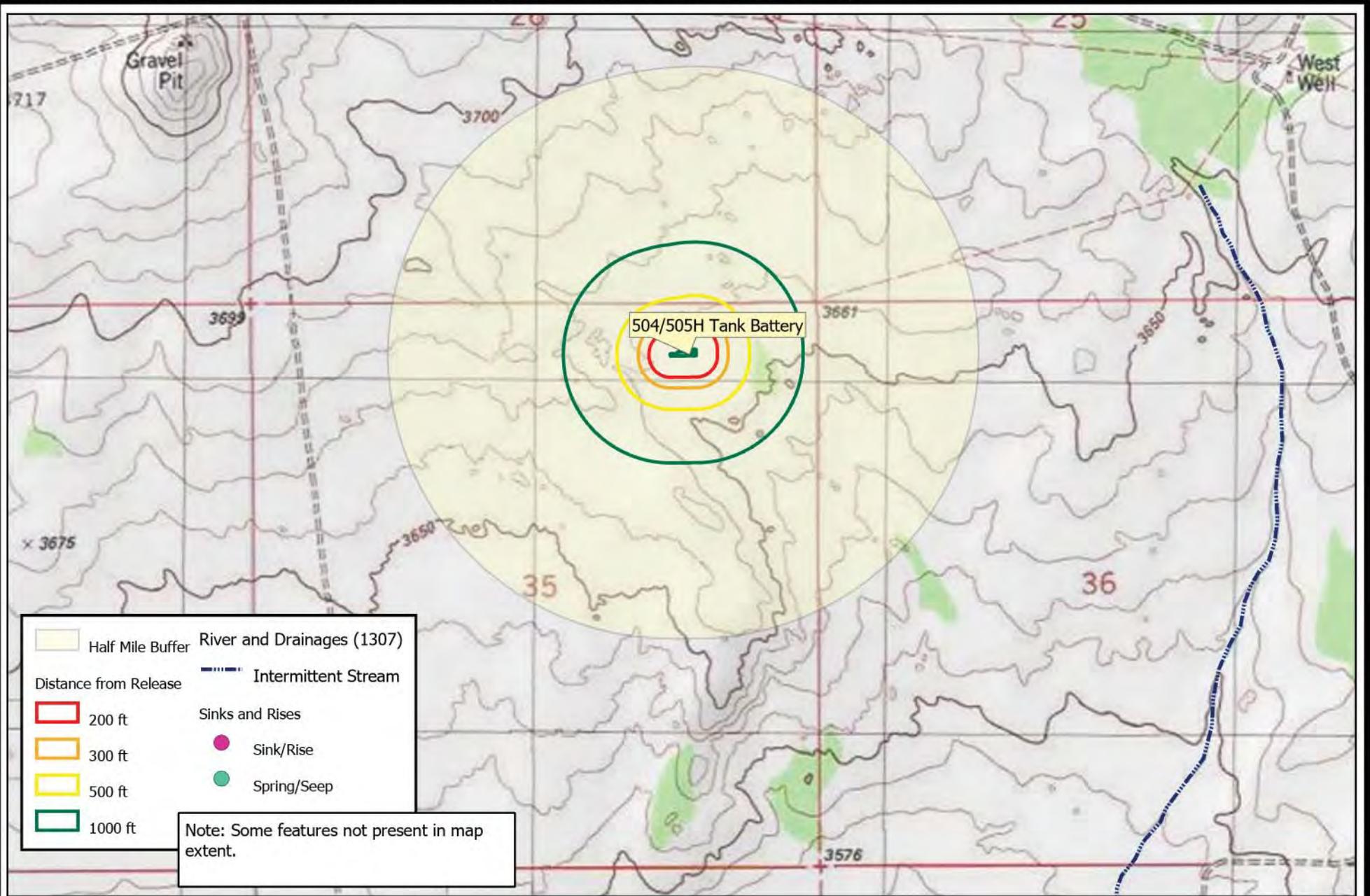


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Wellhead Protection
 Advance Energy Partners Hat Mesa, LLC
 1RP-5544. 504/505H Tank Battery Release

Figure 4
 August 2019

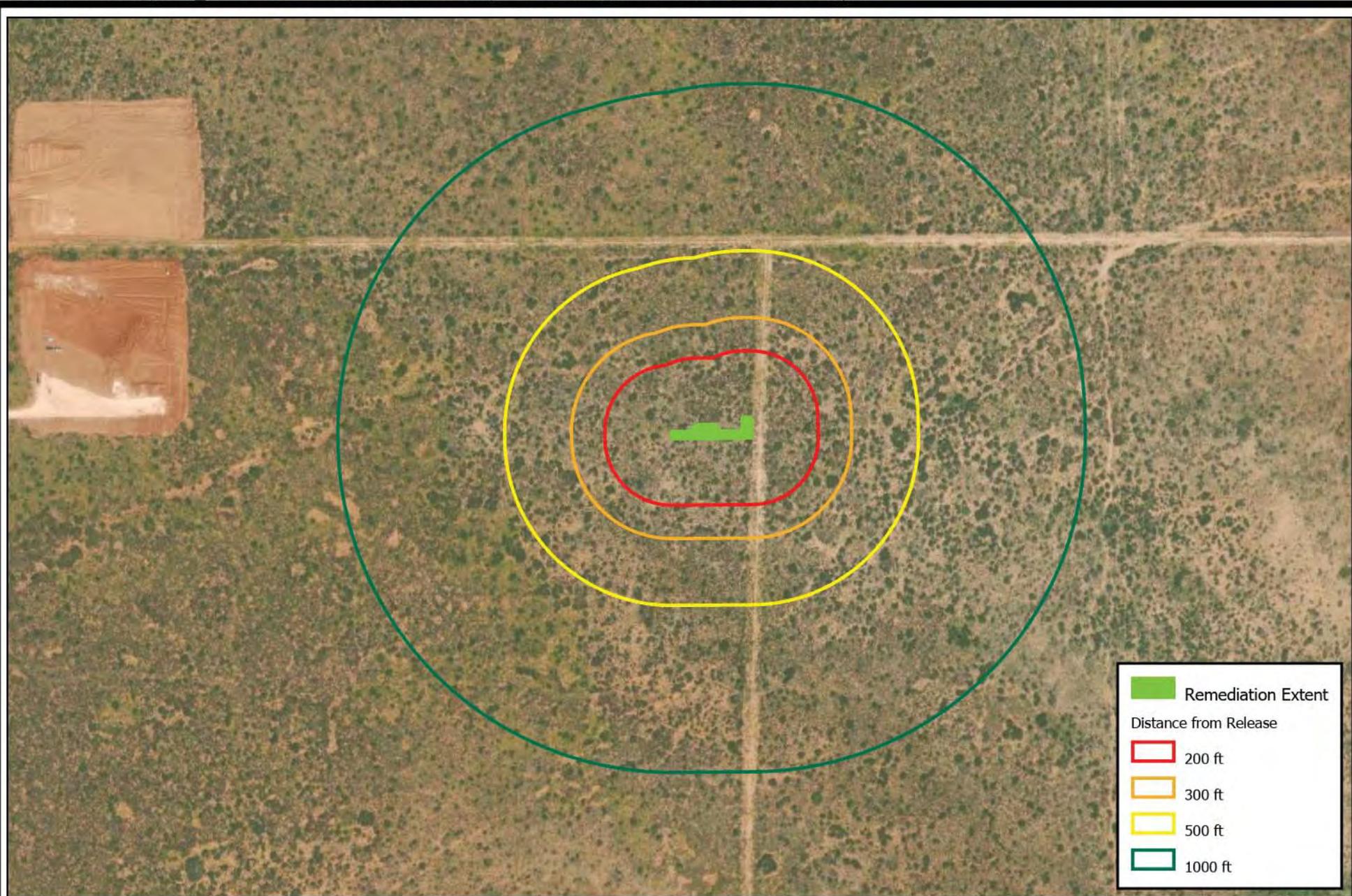


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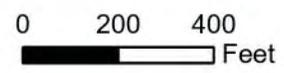
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Significant Water Courses
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Figure 5
August 2019



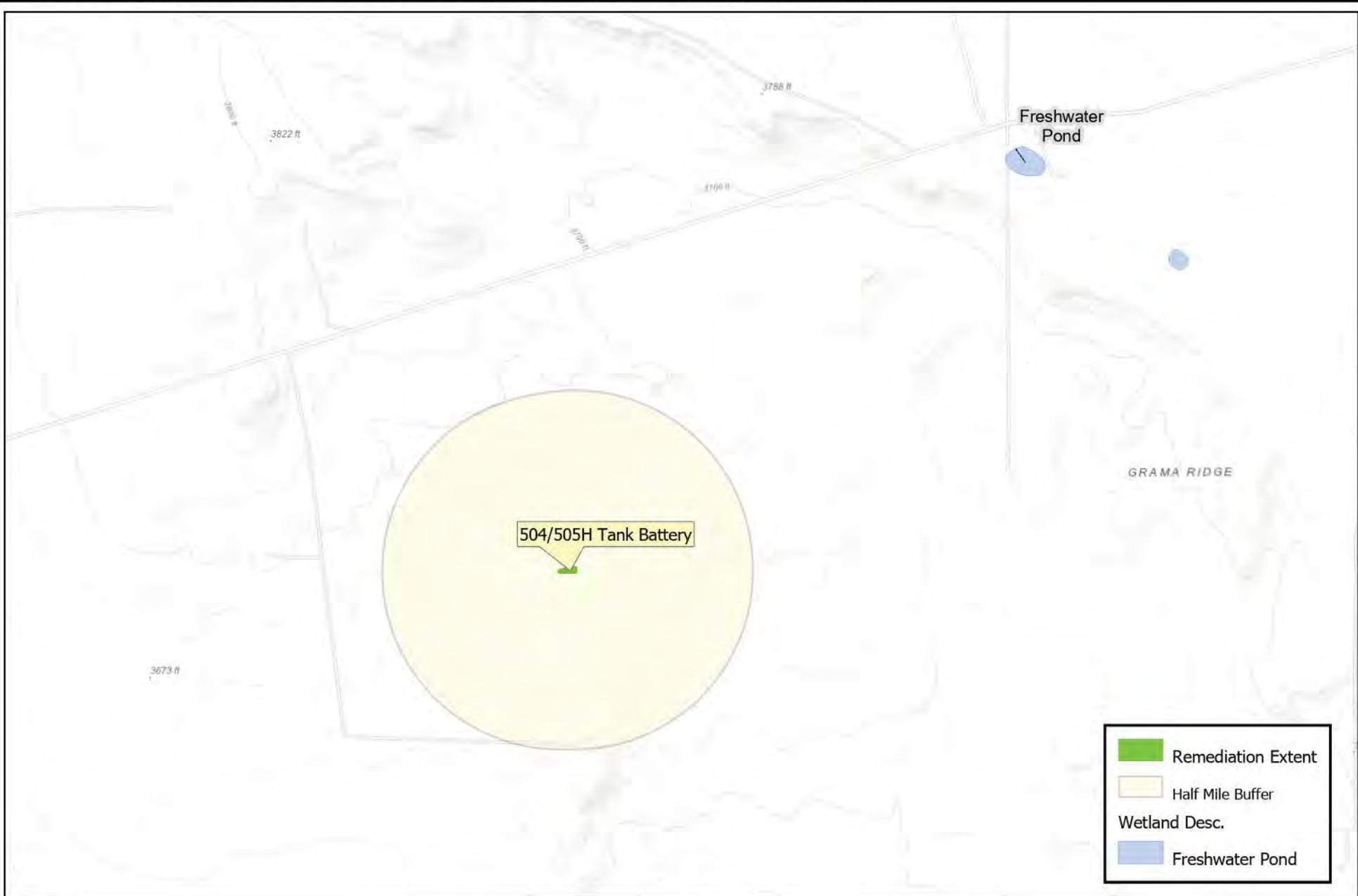
	Remediation Extent
Distance from Release	
	200 ft
	300 ft
	500 ft
	1000 ft



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Nearby Structures
 Advance Energy Partners Hat Mesa, LLC
 1RP-5544. 504/505H Tank Battery Release

Figure 6
 August 2019

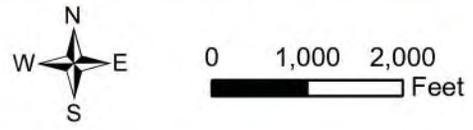
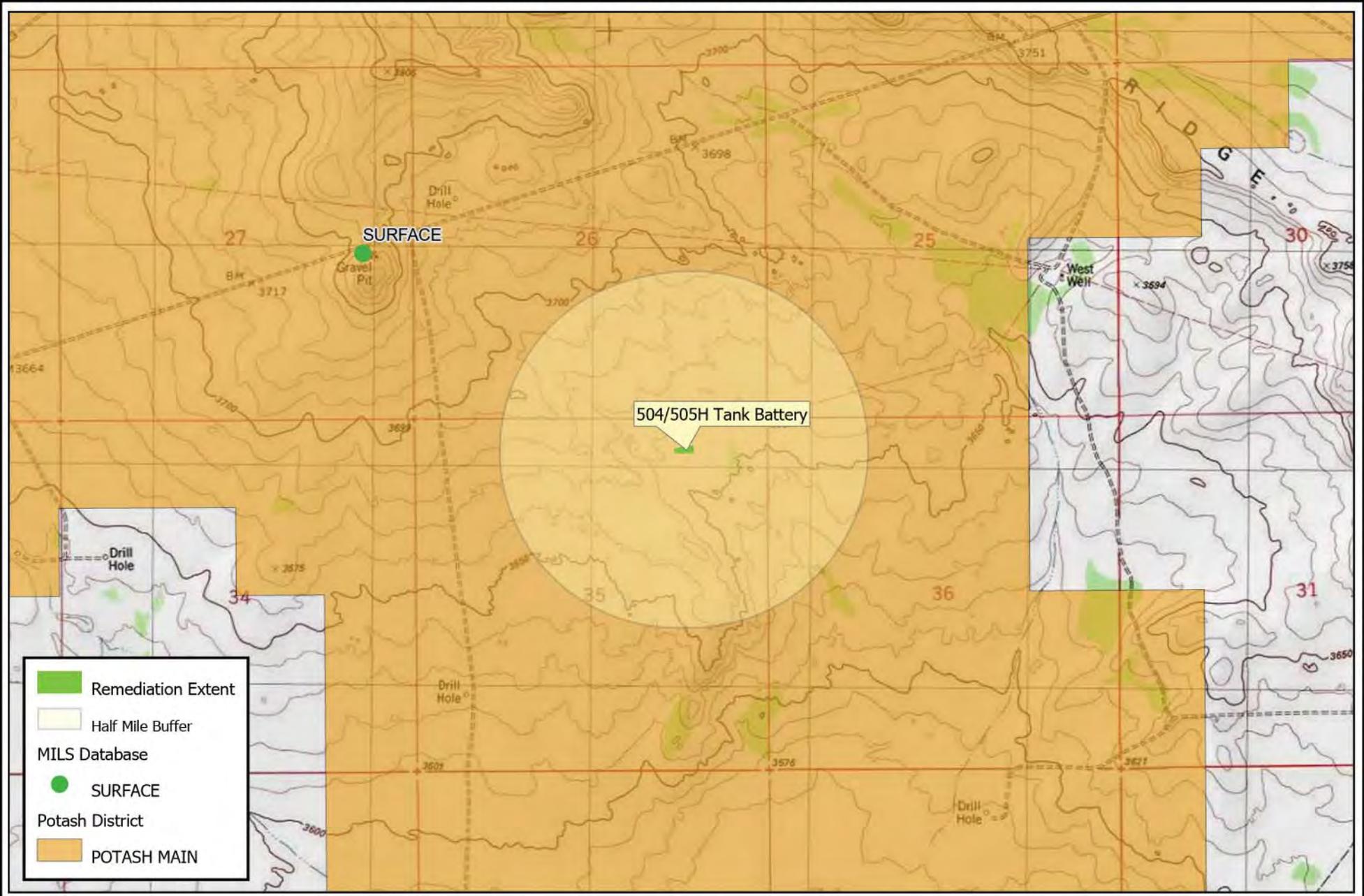


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Nearby Wetlands
Advance Energy Partners Hat Mesa, LLC
1RP-5544. 504/505H Tank Battery Release

Figure 7
August 2019

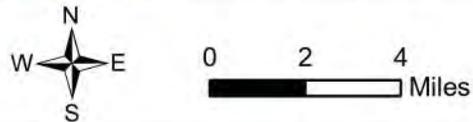
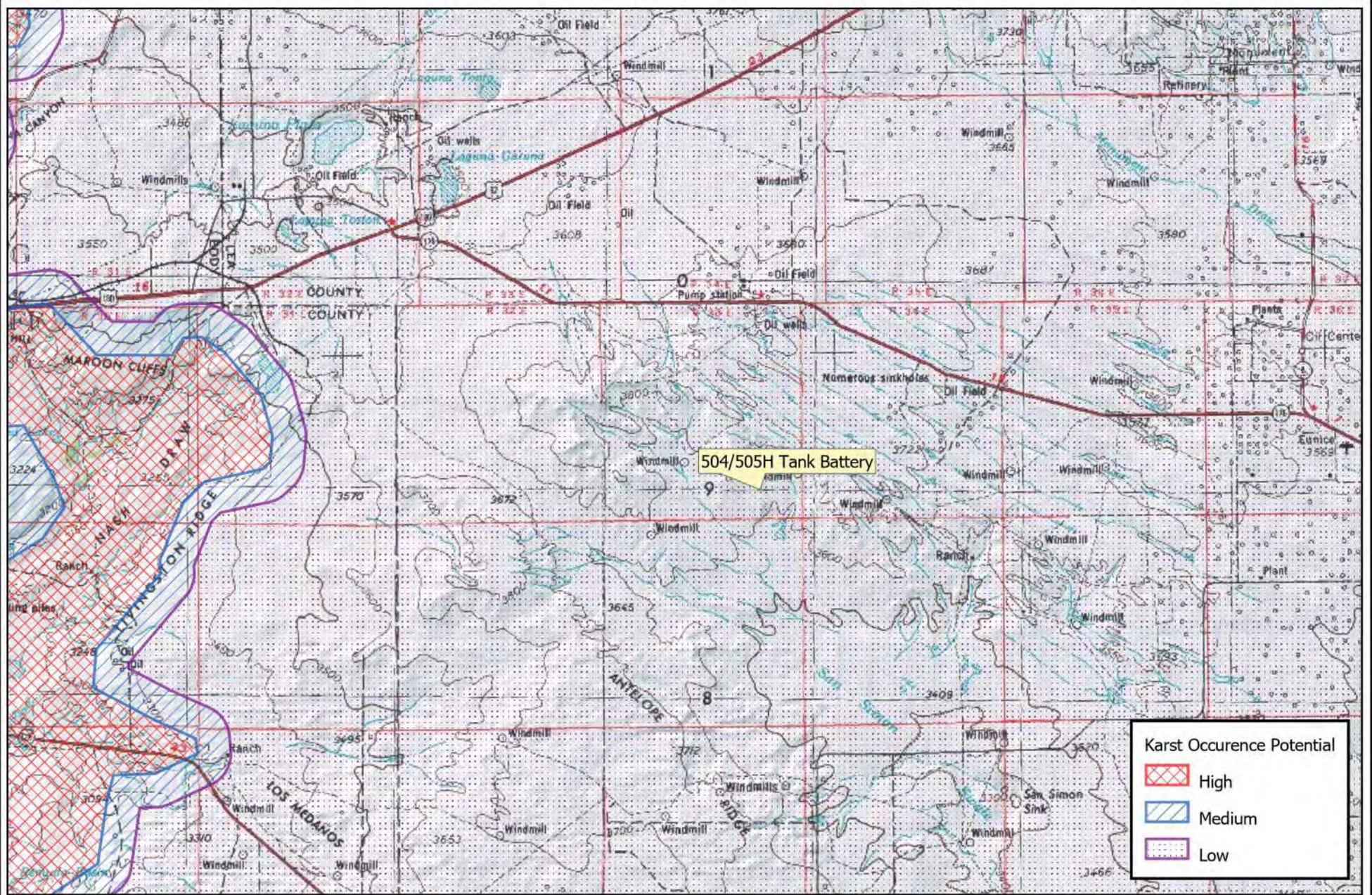


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Mines and Minerals
 Advance Energy Partners Hat Mesa, LLC
 1RP-5544. 504/505H Tank Battery Release

Figure 8
 August 2019

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 Albuquerque, NM 87104
 Ph: 505.266.5004

Karst
 Advance Energy Partners Hat Mesa, LLC
 1RP-5544. 504/505H Tank Battery Release

Figure 9
 August 2019



	Source		Remediation Extent		Well Pad
	Soil Sample Grid Centroid		Release Extent		Pipeline - Buried
			Tank Battery		

W N E S

 0 15 30

 US Feet

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Confirmation Sample Grid Centroids
 (June 2019)
 Advance Energy Partners Hat Mesa, LLC
 1RP-5544. 504/505H Tank Battery Release

Figure 11
 August 2019

Tables

R.T. Hicks Consultants, Ltd.

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Albuquerque, NM 87104

Table 1: OSE Water Well Log Data Summary

POD Number	Date	Top of Water Bearing Strata	Bottom of Water Bearing Strata	Depth to Water	Source	Height Above Confining Layer
		Feet	Feet	Feet		Feet
CP 00600	4/17/1940	NR	65	37	Shallow	
CP 00854	6/22/1996	755	890	600	Artesian	155
CP 01349 POD 1	7/18/2014	960	1188	572	Artesian	388
CP 01355 POD 1	7/29/2014	925	1185	582	Artesian	343
CP 01356 POD 1	8/9/2014	765	1092	555	Artesian	210
CP 01357 POD 1	8/26/2014	945	1286	578	Artesian	367
CP 1411 POD 1	10/14/2014	800	1145	NA	Artesian	NA

Table 2
Summary of Analytical
Initial Characterization

Sample ID	Date	Matrix (Soil/Water)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Closure Criteria											
0 - 4 feet & "not in-use"						600	1,000	2,500	10	50	
> 4 ft or "in-use"						20,000	1,000	2,500	10	50	
HA-01	6/6/2019	Soil		0.0	2.0	16	<20	<30	<0.05	<0.3	E. Extent
HA-02	6/6/2019	Soil		0.0	2.0	32	<20	<30	<0.05	<0.3	S. Central Extent
HA-03	6/6/2019	Soil		0.0	2.0	16	<20	<30	<0.05	<0.3	SE Extent
HA-04	6/6/2019	Soil		0.0	2.0	16	<20	<30	<0.05	<0.3	NE Extent
HA-05	6/6/2019	Soil		1.0	2.0	32	10370	11590	8.43	280	E. Pipeline Trench
HA-05	6/6/2019	Soil		2.0	4.0	16	5040	5649	3.7	169	E. Pipeline Trench
HA-05	6/6/2019	Soil	4.5			16	<20	<30	<0.05	<0.3	E. Pipeline Trench
HA-06	6/6/2019	Soil		0.0	2.0	16	<20	<30	<0.05	<0.3	W. of Source
HA-07	6/6/2019	Soil		0.0	2.0	192	7840	8699	23.2	281	Source
HA-07	6/6/2019	Soil		2.0	4.0	48	567	580.7	0.619	15.4	Source
HA-07	6/6/2019	Soil	5.5			64	139.7	<149.7	0.084	1.78	Source
HA-08	6/6/2019	Soil		0.0	2.0	64	338.1	<348.1	0.75	21.1	Pooling area SE
HA-08	6/6/2019	Soil		2.0	4.0	16	78.5	<88.5	<0.05	0.466	Pooling area SE
HA-08	6/6/2019	Soil	5.5			<16	<20	<30	<0.05	<0.30	Pooling area SE

Table 3
Summary of Analytical
Confirmation Sampling

Sample ID	Date	Matrix (Soil/Water)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Closure Criteria											
0 - 4 feet & "not in-use"						600	1,000	2,500	10	50	
> 4 ft or "in-use"						20,000	1,000	2,500	10	50	
G-01 Base	6/19/2019	Soil	4.5			16	<20	<30	<0.05	<0.30	
G-01 E. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-01 N. Wall	6/19/2019	Soil		0.0	4.0	16	<20	<30	<0.05	<0.30	
G-01 W. Wall	6/19/2019	Soil		0.0	4.0	16	<20	<30	<0.05	<0.30	
G-02 Base	6/19/2019	Soil	6.5			16	<71.6	<81.6	<0.05	<0.30	
G-02 E. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-02 W. Wall	6/19/2019	Soil		0	4	32	<20	<30	<0.05	<0.30	
G-03 Base	6/19/2019	Soil	5			32	1276	1475	<0.1	13.2	REMOVED
G-03 Base	6/25/2019	Soil	7.5			64	<20	<30	<0.05	<0.30	
G-03 E. Wall	6/19/2019	Soil		0	4	<16	<21.1	<31.7	<0.05	<0.30	
G-03 W. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-04 Base	6/19/2019	Soil	5			32	<20	<30	<0.05	<0.30	
G-04 E. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-04 S. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-05 Base	6/19/2019	Soil	4.5			32	<77.3	<91.2	<0.05	<0.30	
G-05 N. Wall	6/19/2019	Soil		0	4	16	<20	<30	<0.05	<0.30	
G-05 S. Wall	6/19/2019	Soil		0	4	32	<20	<30	<0.05	<0.30	
G-06 Base	6/19/2019	Soil	4			16	<20	<30	<0.05	<0.30	
G-06 N. Wall	6/19/2019	Soil		0	4	32	<20	<30	<0.05	<0.30	
G-06 S. Wall	6/19/2019	Soil		0	3.5	32	<20	<30	<0.05	<0.30	
G-07 Base	6/21/2019	Soil	3.0			<16	<20	<30	<0.05	<0.30	
G-07 S. Wall	6/21/2019	Soil		1.0	3.0	16	<20	<30	<0.05	<0.30	
G-08 Base	6/21/2019	Soil	4			16	436.8	495.6	<0.05	1.41	REMOVED
G-08 Base	6/25/2019	Soil	5.0			16	<20	<30	<0.05	<0.30	
G-08 N. Wall	6/21/2019	Soil		2.0	4.0	<16	<20	<30	<0.05	<0.30	
G-08 S. Wall	6/21/2019	Soil		1.0	4.0	16	<82.3	<93.8	<0.05	<0.30	
G-09 Base	6/21/2019	Soil	4.0			<16	<20	<30	<0.05	<0.30	
G-09 S. Wall	6/21/2019	Soil		1.0	4.0	<16	<20	<30	<0.05	<0.30	
G-10 Base	6/21/2019	Soil	3.0			16	<27.6	<37.6	<0.05	<0.30	
G-10 N. Wall	6/21/2019	Soil	2			48	7280	8212	2.16	205	REMOVED
G-10 N. Wall	6/25/2019	Soil		0.0	2.0	32	<20	<30	<0.05	<0.30	
G-10 S. Wall	6/21/2019	Soil		2.0	3.0	32	<20	<30	<0.05	<0.30	

Table 3
Summary of Analytical
Confirmation Sampling

Sample ID	Date	Matrix (Soil/Water)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Closure Criteria											
0 - 4 feet & "not in-use"						600	1,000	2,500	10	50	
> 4 ft or "in-use"						20,000	1,000	2,500	10	50	
G-11 Base	6/21/2019	Soil	2.0			<16	<20	<30	<0.05	<0.30	
G-11 N. Wall	6/21/2019	Soil	2.0			16	<20	<30	<0.05	<0.30	
G-11 S. Wall	6/21/2019	Soil		1.0	2.0	32	<20	<30	<0.05	<0.30	
G-12 Base	6/21/2019	Soil	4.0			16	<20	<30	<0.05	<0.30	
G-12 N. Wall	6/21/2019	Soil		0.0	4.0	<16	<20	<30	<0.05	<0.30	
G-13 Base	6/21/2019	Soil	2.0			16	<20	<30	<0.05	<0.30	
G-13 Containment Wall	6/21/2019	Soil		0.0	2.0	64	<20	<30	<0.05	<0.30	
G-14 Containment Wall	6/21/2019	Soil		0	2	896	5731	6592	0.434	43.1	REMOVED
G-14 Base	6/21/2019	Soil	2.0			32	<20	<30	<0.05	<0.30	
G-14 Containment Wall	6/25/2019	Soil		0.0	2.0	496	3157	3728	0.618	32.8	Defer (in-use)
G-14 Containment Wall	6/25/2019	Soil		2.0	4.0	32	<20	<30	<0.05	<0.30	
G-14 Containment Wall	6/25/2019	Soil	4.5			32	<20	<30	<0.05	<0.30	
G-14 E. Wall	6/21/2019	Soil		0.0	3.0	48	<20	<30	<0.05	<0.30	

Appendix A

Laboratory Certificates of Analyses

R.T. Hicks Consultants, Ltd.
901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104



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

June 13, 2019

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/07/19 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 01 0-2' (H901994-01)

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	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	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	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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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:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 02 0-2' (H901994-02)

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	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2019	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	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 03 0-2' (H901994-03)

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	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	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	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 91.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 04 0-2' (H901994-04)

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	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	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	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 06 0-2' (H901994-05)

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	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/11/2019	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	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 0-2' (H901994-06)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	23.2	2.00	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	115	2.00	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	36.8	2.00	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	106	6.00	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	281	12.0	06/12/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/11/2019	ND	416	104	400	3.92	QR-03

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2680	10.0	06/10/2019	ND	250	125	200	5.54		
DRO >C10-C28*	5160	10.0	06/10/2019	ND	222	111	200	6.64		
EXT DRO >C28-C36	859	10.0	06/10/2019	ND						

Surrogate: 1-Chlorooctane 304 % 41-142

Surrogate: 1-Chlorooctadecane 237 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 2-4' (H901994-07)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.619	0.100	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	4.77	0.100	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	2.38	0.100	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	7.67	0.300	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	15.4	0.600	06/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/11/2019	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*	135	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	432	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	13.7	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 07 5.5' (H901994-08)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.084	0.050	06/09/2019	ND	2.24	112	2.00	13.6	
Toluene*	0.435	0.050	06/09/2019	ND	2.34	117	2.00	11.9	
Ethylbenzene*	0.295	0.050	06/09/2019	ND	2.26	113	2.00	14.2	
Total Xylenes*	0.962	0.150	06/09/2019	ND	6.94	116	6.00	13.6	
Total BTEX	1.78	0.300	06/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/10/2019	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*	24.7	10.0	06/09/2019	ND	228	114	200	6.68	
DRO >C10-C28*	115	10.0	06/09/2019	ND	202	101	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	06/09/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 08 0-2' (H901994-09)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.750	0.050	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	6.53	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	3.38	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	10.4	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	21.1	0.300	06/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/11/2019	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*	87.1	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	251	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 08 2-4' (H901994-10)

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	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	0.105	0.050	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	0.086	0.050	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	0.275	0.150	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	0.466	0.300	06/12/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	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*	30.3	10.0	06/10/2019	ND	250	125	200	5.54	
DRO >C10-C28*	48.2	10.0	06/10/2019	ND	222	111	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 08 5.5' (H901994-11)

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	06/09/2019	ND	2.24	112	2.00	13.6	
Toluene*	<0.050	0.050	06/09/2019	ND	2.34	117	2.00	11.9	
Ethylbenzene*	<0.050	0.050	06/09/2019	ND	2.26	113	2.00	14.2	
Total Xylenes*	<0.150	0.150	06/09/2019	ND	6.94	116	6.00	13.6	
Total BTEX	<0.300	0.300	06/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/10/2019	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	06/08/2019	ND	243	121	200	0.943	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	220	110	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 97.7 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 1-2' (H901994-12)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.43	2.00	06/12/2019	ND	2.23	111	2.00	1.86	
Toluene*	97.4	2.00	06/12/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	43.8	2.00	06/12/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	130	6.00	06/12/2019	ND	6.41	107	6.00	0.159	
Total BTEX	280	12.0	06/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2960	10.0	06/10/2019	ND	250	125	200	5.54		
DRO >C10-C28*	7410	10.0	06/10/2019	ND	222	111	200	6.64		
EXT DRO >C28-C36	1220	10.0	06/10/2019	ND						

Surrogate: 1-Chlorooctane 206 % 41-142

Surrogate: 1-Chlorooctadecane 300 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 2-4' (H901994-13)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.70	1.00	06/13/2019	ND	2.23	111	2.00	1.86	
Toluene*	55.0	1.00	06/13/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	27.4	1.00	06/13/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	83.0	3.00	06/13/2019	ND	6.41	107	6.00	0.159	
Total BTEX	169	6.00	06/13/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1290	10.0	06/10/2019	ND	240	120	200	5.09		
DRO >C10-C28*	3750	10.0	06/10/2019	ND	212	106	200	4.86		
EXT DRO >C28-C36	609	10.0	06/10/2019	ND						

Surrogate: 1-Chlorooctane 251 % 41-142

Surrogate: 1-Chlorooctadecane 198 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/07/2019	Sampling Date:	06/06/2019
Reported:	06/13/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	504 / 505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA - 05 4.5' (H901994-14)

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	06/13/2019	ND	2.23	111	2.00	1.86	
Toluene*	0.082	0.050	06/13/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.41	107	6.00	0.159	
Total BTEX	<0.300	0.300	06/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2019	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	06/10/2019	ND	240	120	200	5.09	
DRO >C10-C28*	<10.0	10.0	06/10/2019	ND	212	106	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	06/10/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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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.
QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
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 Record

Client: R.T. Hicks Consultants

Mailing Address: on file

Phone #: (970) 570-9535

email or Fax#: andrew@RThicksconsult.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:

Advance Energy

Project #:

504/505 H Tank Battery

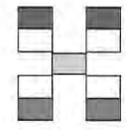
Project Manager:

Andrew Parker

Sampler: Jacob Duncan

On Ice: Yes No

Sample Temperature:



Cardinal Labs

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX + Benzene Chloride	Air Bubbles (Y or N)	
6/6	16:12	SOIL	H901994 HA-01 0-2 Ft	90z Jar	ice				X									X	X	
	2 16:30		HA-02 0-2 Ft																	
	3 16:40		HA-03 0-2 Ft																	
	4 16:50		HA-04 0-2 Ft																	
	5 17:05		HA-06 0-2 Ft																	
	6 17:30		HA-07 0-2 Ft																	
	7 17:40		HA-07 2-4 Ft																	
	8 17:45		HA-07 5.5 Ft																	
	9 17:55		HA-08 0-2 Ft																	
	10 18:00		HA-08 2-4 Ft																	
	11 18:05		HA-08 5.5 Ft																	

Date: 6/7 Time: 08:00 Relinquished by: Jacob Duncan

Received by: Andrew Parker Date: 6/7 Time: 8:00 AM

Remarks: 0.1c

Date: 7 Time: 09:15 Relinquished by: Andrew

Received by: Janora Oldaker Date: 6/7/19 Time: 0915

Remarks: #97

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Page 18 of 18 **n-of-Custody Record**

Turn-Around Time:

Client: **RT Hicks**

Standard Rush

Mailing Address: **On File**

Project Name: **Advance Energy**

Phone #: **(976) 570-9535**

Project #: **504/505 H Tank Battery**

email or Fax#: **andrew@RThicksConsult.com**

Project Manager: **Andrew Parker**

QA/QC Package:
 Standard Level 4 (Full Validation)

Sampler: **Jacob Duncan**

Accreditation:
 NELAP Other _____

On Ice: Yes No

EDD (Type) _____

Sample Temperature: _____



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX + Benzene	Chloride	Air Bubbles (Y or N)	
12	6/6	10:30	soil	HA-05 1-2 FT	4oz Jar	ice															
13	↓	10:45	↓	HA-05 2-4 FT	↓	↓			X									X	X		
14	↓	10:50	↓	HA-05 4.5 FT	↓	↓			↓									↓	↓		

Date: 6/7 Time: 08:00 Relinquished by: **Jacob Duncan**

Received by: **Andrew Parker** Date Time: 6/7/19 08:00

Remarks:

Date: 6/7 Time: 09:15 Relinquished by: **[Signature]**

Received by: **[Signature]** Date Time: 6/7/19 09:15

0.18 #97

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

June 20, 2019

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/19/19 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 1 E. WALL 0-4' (H902122-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.53	76.7	2.00	14.6	
Toluene*	<0.050	0.050	06/20/2019	ND	1.82	90.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.75	87.7	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.37	89.5	6.00	2.72	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 1 W. WALL 0-4' (H902122-02)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.53	76.7	2.00	14.6	
Toluene*	<0.050	0.050	06/20/2019	ND	1.82	90.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.75	87.7	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.37	89.5	6.00	2.72	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 1 N. WALL 0-4' (H902122-03)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.53	76.7	2.00	14.6	
Toluene*	<0.050	0.050	06/20/2019	ND	1.82	90.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.75	87.7	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.37	89.5	6.00	2.72	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 98.8 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 1 BASE 4.5' (H902122-04)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.53	76.7	2.00	14.6	
Toluene*	<0.050	0.050	06/20/2019	ND	1.82	90.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.75	87.7	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.37	89.5	6.00	2.72	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 2 BASE 6.5' (H902122-05)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	0.052	0.050	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	61.6	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 2 W. WALL 0-4' (H902122-06)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	0.055	0.050	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 2 E. WALL 0-4' (H902122-07)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	<0.050	0.050	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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* = Accredited Analyte

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 3 W. WALL 0-4' (H902122-08)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	0.057	0.050	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 3 BASE 5' (H902122-09)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	06/20/2019	ND	1.81	90.5	2.00	0.709	
Toluene*	2.11	0.100	06/20/2019	ND	1.78	89.2	2.00	0.977	
Ethylbenzene*	3.02	0.100	06/20/2019	ND	1.71	85.7	2.00	1.37	
Total Xylenes*	8.10	0.300	06/20/2019	ND	5.24	87.3	6.00	1.52	
Total BTEX	13.2	0.600	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	186	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	1090	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	199	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 129 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 3 E. WALL 0-4' (H902122-10)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	11.1	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	10.6	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 4 S. WALL 0-4' (H902122-11)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 4 E. WALL 0-4' (H902122-12)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 4 BASE 5' (H902122-13)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 5 BASE 4.5' (H902122-14)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	67.3	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	13.9	10.0	06/20/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 5 S. WALL 0-4' (H902122-15)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 5 N. WALL 0-4' (H902122-16)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 6 N. WALL 0-4' (H902122-17)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	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	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 6 BASE 4' (H902122-18)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2019	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	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/20/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H TANK BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 6 S. WALL 0-3.5' (H902122-19)

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	06/20/2019	ND	2.12	106	2.00	1.36	
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/20/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2019	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	06/20/2019	ND	181	90.3	200	2.94	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	175	87.5	200	0.358	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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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-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RT Hicks		BILL TO		ANALYSIS REQUEST									
Project Manager: Andrew Parker		P.O. #:											
Address: on-File		Company: RT Hicks											
City:	State:	Zip:	Attn: Mail to 180										
Phone #:	Fax #:	Project Owner:	Address: OFFICE										
Project #:	Project Owner:	City:	City:										
Project Name: Advance Energy	State:	Zip:	State: Zip:										
Project Location: 505 H Tank Battery	Phone #:	Phone #:	Phone #:										
Sampler Name: Andrew Parker	Fax #:	Fax #:	Fax #:										

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTEX, Benzene	GRO, DRU, DRO EXT	Chloride
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H902122																
	1 G1 E.WALL 0-4 FT	C			X							6-19-19	10:00	X	X	X
	2 G1 W.WALL 0-4 FT												10:05			
	3 G2 N.WALL 0-4 FT												10:10			
	4 G1 BASE 4.5 FT												10:15			
	5 G2 BASE 6.5 FT												10:20			
	6 G2 W.WALL 0-4 FT												10:25			
	7 G2 E.WALL 0-4 FT												10:30			
	8 G3 W.WALL 0-4 FT												10:35			
	9 G3 BASE 5 FT												10:40			
	10 G3 E.WALL 0-4 FT												10:45			

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Relinquished By: Andrew Parker	Date: 6/19/19	Received By: Jamara Reddy	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 17:00		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		(RFN) Page 1/2 Brought in plastic bags etc.	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: 5.9c #97	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	J.R.		



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RT Hicks		BILL TO				ANALYSIS REQUEST																							
Project Manager: Andrew Parker		P.O. #:																											
Address: On-File		Company: RT Hicks																											
City: State: Zip:		Attn: Mail to																											
Phone #: Fax #:		Address: ABQ office																											
Project #: Project Owner:		City:																											
Project Name: Advance Energy		State: Zip:																											
Project Location: Adular 505 A Sub Tank Battery		Phone #:																											
Sampler Name: Andrew Parker		Fax #:																											
FOR LAB USE ONLY				MATRIX			PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME															
H902/22																													
11	G4 S. WALL 0-4 FT	C	1			X					X		6/19/19	10:50	X	X	X	BTEX, Benzene								GRU, DRU, DEO EXT		chloride	
12	G4 E. WALL 0-4 FT													10:55															
13	G4 BASE 5 FT													11:00															
14	G5 Base 4.5 FT													11:10															
15	G5 S. WALL 0-4 FT													11:15															
16	G5 N. WALL 0-4 FT													11:20															
17	G6 N. WALL 0-4 FT													11:25															
18	G6 BASE 4 FT													11:30															
19	G6 S. WALL 0-3.5 FT													11:35															

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Relinquished By: Andrew Parker	Date: 6/19/19	Received By: Jamara Oldatye	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 17:00		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: (Initials)		
Sampler - UPS - Bus - Other:	Cool Intact	J.O.		
	<input type="checkbox"/> Yes <input type="checkbox"/> No			
	<input type="checkbox"/> No <input type="checkbox"/> No			

RFN

Page 2/2

Brought in plastic Bags to



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

June 25, 2019

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/24/19 10:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 7 S WALL 1-3' (H902155-01)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 7 BASE 3' (H902155-02)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 8 N. WALL 2-4' (H902155-03)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 06/24/2019
 Reported: 06/25/2019
 Project Name: ADVANCE ENERGY
 Project Number: 505 H
 Project Location: NOT GIVEN

Sampling Date: 06/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: G 8 S WALL 1-4' (H902155-04)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	72.3	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	11.5	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 8 BASE 4' (H902155-05)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	0.127	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	0.272	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	1.01	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	1.41	0.300	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	44.8	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	392	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	58.8	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 122 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 9 BASE 4' (H902155-06)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 9 S. WALL 1-4' (H902155-07)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 10 BASE 3' (H902155-08)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	17.6	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 10 N.WALL 2' (H902155-09)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.16	0.500	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	58.0	0.500	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	35.5	0.500	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	109	1.50	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	205	3.00	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2019	ND	400	100	400	3.92	

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*	1790	50.0	06/24/2019	ND	205	103	200	4.77		
DRO >C10-C28*	5490	50.0	06/24/2019	ND	193	96.6	200	5.60		
EXT DRO >C28-C36	932	50.0	06/24/2019	ND						

Surrogate: 1-Chlorooctane 205 % 41-142

Surrogate: 1-Chlorooctadecane 283 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 10 S.WALL 2-3' (H902155-10)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	<0.050	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 97.6 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 11 S. WALL 1-2' (H902155-11)

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	06/24/2019	ND	2.05	103	2.00	0.846	
Toluene*	0.158	0.050	06/24/2019	ND	2.09	105	2.00	1.69	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.97	98.5	2.00	2.96	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	6.07	101	6.00	1.65	
Total BTEX	<0.300	0.300	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2019	ND	205	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/24/2019	ND	193	96.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	06/24/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 11 N. WALL 2' (H902155-12)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 11 BASE 2' (H902155-13)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 12 BASE 4' (H902155-14)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 12 N. WALL 0-4' (H902155-15)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 13 BASE 2' (H902155-16)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2019	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	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 13 CONTAINMENT WALL 0-2' (H902155-17)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73		
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47		
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10		
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13		
Total BTEX	<0.300	0.300	06/24/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/25/2019	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	06/25/2019	ND	198	98.9	200	5.56		
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55		
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND						

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 14 E. WALL 0-3' (H902155-18)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	<0.050	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2019	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	06/25/2019	ND	198	98.9	200	5.56	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	196	97.9	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 14 BASE 2' (H902155-19)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	0.061	0.050	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	<0.050	0.050	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	<0.150	0.150	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	<0.300	0.300	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2019	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	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 91.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	06/24/2019	Sampling Date:	06/21/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	505 H	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G 14 CONTAINMENT WALL 0-2' (H902155-20)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.434	0.250	06/24/2019	ND	1.80	89.9	2.00	4.73	
Toluene*	9.87	0.500	06/24/2019	ND	1.77	88.4	2.00	5.47	
Ethylbenzene*	8.21	0.500	06/24/2019	ND	1.68	84.2	2.00	6.10	
Total Xylenes*	24.6	1.50	06/24/2019	ND	5.14	85.7	6.00	6.13	
Total BTEX	43.1	2.75	06/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/25/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	751	50.0	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	4980	50.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	861	50.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 216 % 41-142

Surrogate: 1-Chlorooctadecane 207 % 37.6-147

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Company Name: <i>RT Hicks consultants</i>		BILL TO		ANALYSIS REQUEST									
Project Manager: <i>Andrew Parker</i>		P.O. #:		<i>BTEX, Benzene</i> <i>TPH (Geo, DAG, Deo EXT)</i> <i>Chloride</i>									
Address: <i>on-file</i>		Company: <i>RT Hicks</i>											
City: State: Zip:		Attn:											
Phone #: Fax #:		Address: <i>Mail to ABE</i>											
Project #: Project Owner:		City:											
Project Name: <i>Advance Energy</i>		State: Zip:											
Project Location: <i>505 H</i>		Phone #:											
Sampler Name: <i>Andrew Parker</i>		Fax #:											

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	BTEX, Benzene	TPH (Geo, DAG, Deo EXT)	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:						
<i>H902155</i>																		
<i>1</i>	<i>G7 S.WALL 1-3 FT</i>	<i>1</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>6-21-19</i>	<i>13:00</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>2</i>	<i>G7 BASE 3 FT</i>													<i>13:05</i>				
<i>3</i>	<i>G8 N.WALL 2-4 FT</i>													<i>13:10</i>				
<i>4</i>	<i>G8 S.WALL 1-4 FT</i>													<i>13:15</i>				
<i>5</i>	<i>G8 BASE 4 FT</i>													<i>13:20</i>				
<i>6</i>	<i>G9 BASE 4 FT</i>													<i>13:30</i>				
<i>7</i>	<i>G9 S.WALL 1-4 FT</i>													<i>13:35</i>				
<i>8</i>	<i>G10 BASE 3 FT</i>													<i>13:45</i>				
<i>9</i>	<i>G10 N.WALL 2 FT</i>													<i>14:00</i>				
<i>10</i>	<i>G10 S.WALL 2-3 FT</i>													<i>14:15</i>				

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Relinquished By: <i>Andrew Parker</i>	Date: <i>6-24-19</i> Time: <i>10:05</i>	Received By: <i>Jamara Oldaker</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	REMARKS: <i>RFN</i> <i>1/2 pages</i>	
Sampler - UPS - Bus - Other: <i>1.1c #97</i>	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>TO.</i>		



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RT Hicks Consultants		BILL TO		ANALYSIS REQUEST									
Project Manager: Andrew Parker		P.O. #:											
Address: on file		Company: RT Hicks											
City: State: Zip:		Attn:											
Phone #: Fax #:		Address: mail to ABQ											
Project #: Project Owner:		City:											
Project Name: Advance Energy		State: Zip:											
Project Location: 505H		Phone #:											
Sampler Name: Andrew Parker		Fax #:											

Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTEX, Benzene	GRO, DEQ, DRO EXT	Chloride
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
4902155																
11	G11 S.WALL 1-2 FT	6 1			X				X			6-21-19	15:00	X	X	X
12	G11 N.WALL 2 FT												15:05			
13	G11 BASE 2 FT												15:10			
14	G12 BASE 4 FT												15:15			
15	G12 N.WALL 0-4 FT												15:20			
16	G13 BASE 2 FT												15:25			
17	G13 Containment Wall 0-2 FT												15:30			
18	G14 E.WALL 0-3 FT												15:35			
19	G14 BASE 2 FT												15:40			
20	G14 Containment wall 0-2 FT												15:45			

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Relinquished By:	Date: 6-24-19	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 10:10	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other: 1.1c #97	Time:	Cool Intact	RFN 2/2 pages	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: (Initials)		
		TO.		



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

June 28, 2019

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/26/19 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: 505 H TANK BATTERY (TB) Project Manager: ANDREW PARKER Fax To: NONE	Reported: 28-Jun-19 10:35
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G 3 BASE 7.5'	H902174-01	Soil	25-Jun-19 17:00	26-Jun-19 08:30
G 8 BASE 5'	H902174-02	Soil	25-Jun-19 17:10	26-Jun-19 08:30
G 10 N.WALL 0-2'	H902174-03	Soil	25-Jun-19 17:20	26-Jun-19 08:30
G 14 CONTAINMENT WALL 2-4'	H902174-04	Soil	25-Jun-19 17:30	26-Jun-19 08:30
G 14 CONTAINMENT WALL 0-2'	H902174-05	Soil	25-Jun-19 17:40	26-Jun-19 08:30
G 14 CONTAINMENT WALL 4.5'	H902174-06	Soil	25-Jun-19 17:50	26-Jun-19 08:30

Sample -06 ID was logged in wrong. Client sent an email to bring to our attention. This is the revised report with the correct sample ID for sample -06. This report will replace the one sent on 06/27/19.

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: 505 H TANK BATTERY (TB) Project Manager: ANDREW PARKER Fax To: NONE	Reported: 28-Jun-19 10:35
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**G 3 BASE 7.5'
H902174-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		73.3-129	9062604	BF	26-Jun-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	

Surrogate: 1-Chlorooctane			71.7 %		41-142	9062607	MS	26-Jun-19	8015B	
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Surrogate: 1-Chlorooctadecane			75.8 %		37.6-147	9062607	MS	26-Jun-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: 505 H TANK BATTERY (TB) Project Manager: ANDREW PARKER Fax To: NONE	Reported: 28-Jun-19 10:35
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**G 8 BASE 5'
H902174-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	73.3-129		9062604	BF	26-Jun-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	

Surrogate: 1-Chlorooctane			81.0 %	41-142		9062607	MS	26-Jun-19	8015B	
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Surrogate: 1-Chlorooctadecane			85.3 %	37.6-147		9062607	MS	26-Jun-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: 505 H TANK BATTERY (TB) Project Manager: ANDREW PARKER Fax To: NONE	Reported: 28-Jun-19 10:35
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**G 10 N.WALL 0-2'
H902174-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	0.067		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			125 %	73.3-129		9062604	BF	26-Jun-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	

Surrogate: 1-Chlorooctane			70.3 %	41-142		9062607	MS	26-Jun-19	8015B	
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Surrogate: 1-Chlorooctadecane			73.6 %	37.6-147		9062607	MS	26-Jun-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: 505 H TANK BATTERY (TB) Project Manager: ANDREW PARKER Fax To: NONE	Reported: 28-Jun-19 10:35
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**G 14 CONTAINMENT WALL 2-4'
H902174-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	0.094		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	73.3-129		9062604	BF	26-Jun-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	

Surrogate: 1-Chlorooctane			77.3 %	41-142		9062607	MS	26-Jun-19	8015B	
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Surrogate: 1-Chlorooctadecane			82.1 %	37.6-147		9062607	MS	26-Jun-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY
Project Number: 505 H TANK BATTERY (TB)
Project Manager: ANDREW PARKER
Fax To: NONE

Reported:
28-Jun-19 10:35

G 14 CONTAINMENT WALL 0-2'**H902174-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	496		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	0.618		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	7.69		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	6.45		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	18.1		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	32.8		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			230 %	73.3-129		9062604	BF	26-Jun-19	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	407		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	2750		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	571		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	

Surrogate: 1-Chlorooctane			136 %	41-142		9062607	MS	26-Jun-19	8015B	
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Surrogate: 1-Chlorooctadecane			148 %	37.6-147		9062607	MS	26-Jun-19	8015B	
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Analytical Results For:

R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY
Project Number: 505 H TANK BATTERY (TB)
Project Manager: ANDREW PARKER
Fax To: NONE

Reported:
28-Jun-19 10:35

G 14 CONTAINMENT WALL 4.5'**H902174-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	9062602	AC	26-Jun-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9062604	BF	26-Jun-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9062604	BF	26-Jun-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129 9062604 BF 26-Jun-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9062607	MS	26-Jun-19	8015B	

Surrogate: 1-Chlorooctane 80.2 % 41-142 9062607 MS 26-Jun-19 8015B

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147 9062607 MS 26-Jun-19 8015B

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: 505 H TANK BATTERY (TB) Project Manager: ANDREW PARKER Fax To: NONE	Reported: 28-Jun-19 10:35
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9062602 - 1:4 DI Water										
Blank (9062602-BLK1)										
Chloride	ND	16.0	mg/kg							Prepared: 25-Jun-19 Analyzed: 26-Jun-19
LCS (9062602-BS1)										
Chloride	416	16.0	mg/kg	400		104	80-120			Prepared: 25-Jun-19 Analyzed: 26-Jun-19
LCS Dup (9062602-BSD1)										
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: 505 H TANK BATTERY (TB) Project Manager: ANDREW PARKER Fax To: NONE	Reported: 28-Jun-19 10:35
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9062604 - Volatiles

Blank (9062604-BLK1)

Prepared & Analyzed: 26-Jun-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.107		mg/kg	0.100		107	73.3-129			

LCS (9062604-BS1)

Prepared & Analyzed: 26-Jun-19

Benzene	1.67	0.050	mg/kg	2.00		83.3	72.2-131			
Toluene	1.93	0.050	mg/kg	2.00		96.7	71.7-126			
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.3	68.9-126			
Total Xylenes	5.59	0.150	mg/kg	6.00		93.2	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.112		mg/kg	0.100		112	73.3-129			

LCS Dup (9062604-BSD1)

Prepared & Analyzed: 26-Jun-19

Benzene	1.61	0.050	mg/kg	2.00		80.7	72.2-131	3.24	6.91	
Toluene	1.92	0.050	mg/kg	2.00		95.8	71.7-126	0.908	7.12	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.5	68.9-126	0.249	7.88	
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	71.4-125	1.05	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.116		mg/kg	0.100		116	73.3-129			

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: 505 H TANK BATTERY (TB) Project Manager: ANDREW PARKER Fax To: NONE	Reported: 28-Jun-19 10:35
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9062607 - General Prep - Organics

Blank (9062607-BLK1)		Prepared & Analyzed: 26-Jun-19								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.7		mg/kg	50.0		83.4	41-142			
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.1	37.6-147			

LCS (9062607-BS1)		Prepared & Analyzed: 26-Jun-19								
GRO C6-C10	190	10.0	mg/kg	200		95.0	76.5-133			
DRO >C10-C28	190	10.0	mg/kg	200		94.8	72.9-138			
Total TPH C6-C28	380	10.0	mg/kg	400		94.9	78-132			
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	41-142			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.3	37.6-147			

LCS Dup (9062607-BSD1)		Prepared & Analyzed: 26-Jun-19								
GRO C6-C10	196	10.0	mg/kg	200		97.8	76.5-133	2.82	20.6	
DRO >C10-C28	192	10.0	mg/kg	200		96.2	72.9-138	1.45	20.6	
Total TPH C6-C28	388	10.0	mg/kg	400		97.0	78-132	2.14	18	
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	41-142			
Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.5	37.6-147			

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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.
- 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>RT Hicks Consultants</u>		BILL TO		ANALYSIS REQUEST									
Project Manager: <u>Andrew Parker</u>		P.O. #:											
Address: <u>on file</u>		Company: <u>RT Hicks</u>											
City: State: Zip:		Attn:											
Phone #: Fax #:		Address: <u>Mail to ABQ</u>											
Project #: Project Owner:		City:											
Project Name: <u>Advance Energy</u>		State: Zip:											
Project Location: <u>505H Tank Battery (TB)</u>		Phone #:											
Sampler Name: <u>Andrew Parker</u>		Fax #:											

FOR LAB USE ONLY		(G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTX, Benzene	Pb, Cr, DRO, EXT	Chloride
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
<u>H902174</u>																
<u>1</u>	<u>63 Base 7.5 FT</u>	<u>C</u>			<u>X</u>				<u>X</u>			<u>6-25-19</u>	<u>17:00</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>	<u>68 Base 5 FT</u>												<u>17:10</u>			
<u>3</u>	<u>610 N. WALL 0-2 FT</u>												<u>17:20</u>			
<u>4</u>	<u>614 Containment Wall 2-4 FT</u>												<u>17:30</u>			
<u>5</u>	<u>614 Containment Wall 0-2 FT</u>												<u>17:40</u>			
<u>6</u>	<u>614 Containment Wall 4.5 FT</u>												<u>17:50</u>			

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Relinquished By: <u>[Signature]</u>	Date: <u>6-26-19</u> Time: <u>08:30</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>-5.1c #97</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Checked By: (Initials) <u>JP</u>	REMARKS: <u>(RFN)</u> <u>Bush!!</u>	

Appendix B

OSE Well Logs

R.T. Hicks Consultants, Ltd.
901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
CP 00854	POD1	1 1 2	33	21S	33E	633879	3590223

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN, CLARK A."CORKY" (LD)		
Drill Start Date: 06/22/1996	Drill Finish Date: 06/22/1996	Plug Date:
Log File Date: 07/11/1996	PCW Rcv Date: 10/17/2013	Source: Shallow
Pump Type: SUBMER	Pipe Discharge Size: 2.875	Estimated Yield: 100 GPM
Casing Size: 6.63	Depth Well: 950 feet	Depth Water: 600 feet

Water Bearing Stratifications:	Top	Bottom	Description
	755	805	Sandstone/Gravel/Conglomerate
	860	890	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	760	950

Meter Number: 8514	Meter Make: BLANCETT
Meter Serial Number: 040711711	Meter Multiplier: 1.0000
Number of Dials: 7	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
03/15/2004	2004	121	A	jw		0
03/29/2004	2004	69871	A	jw		0
05/17/2004	2004	8758	A	jw		2.651
06/11/2004	2004	79641	A	jw		2.998
01/27/2012	2012	18062553	A	RPT	Initial reading	0
03/01/2012	2012	19039807	A	RPT		2.999
05/29/2013	2013	179696	A	RPT	initial reading	0
10/07/2013	2013	460774	A	RPT	Qtr IV 2013	36.229
11/11/2013	2013	540326	A	RPT		10.254
01/01/2014	2013	614283	A	RPT		9.533
10/01/2014	2014	1122654	A	RPT		65.526
01/01/2015	2014	1212343	A	RPT		11.560
03/31/2015	2015	1307063	A	RPT		12.209
06/27/2015	2015	1369556	A	RPT		8.055

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
09/30/2015	2015	1371471	A	RPT	0.247
10/22/2015	2015	1400502	A	RPT	3.742
11/30/2015	2015	1400502	A	RPT	0
04/28/2016	2016	1464116	A	RPT "JD33 Well"	8.199
06/01/2016	2016	1464116	A	RPT	0
07/27/2016	2016	1496980	A	RPT JD33 Well	4.236
09/01/2016	2016	1510835	A	RPT JD 33 Well	1.786
09/30/2016	2016	1517146	A	RPT	0.813
10/31/2016	2016	1531178	A	RPT JD 33 well	1.809
11/29/2016	2016	1553285	A	RPT JD33 Well	2.849
03/01/2017	2017	1583100	A	RPT	3.843

**YTD Meter Amounts:	Year	Amount
	2004	5.649
	2012	2.999
	2013	56.016
	2014	77.086
	2015	24.253
	2016	19.692
	2017	3.843

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.



New Mexico Office of the State Engineer Point of Diversion Summary

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

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	CP 01349 POD1	2 3 1	27	21S	33E	635304	3591576

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE		
Driller Name: GLENN, CLARK A."CORKY"			
Drill Start Date: 07/12/2014	Drill Finish Date: 07/18/2014	Plug Date:	
Log File Date: 08/04/2014	PCW Rcv Date:	Source: Artesian	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size: 7.00	Depth Well: 1188 feet	Depth Water: 572 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	990	1188	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	721	1188

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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STATE ENGINEER OFFICE
205 WELLS, NEW MEXICO

2014 SEP 10 PM 2:15

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP-1355 (East Standard South) *** Revised 09/09/14 ***				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) Merchants/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) 575-398-2424			
	WELL OWNER MAILING ADDRESS P. O. Box 692				CITY Tatum	STATE NM	ZIP 88267	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 26	SECONDS 54.8	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	33	58.3	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE1/4NW1/4SW1/4 Section 27, Township 21 South, Range 33 East on Merchants Livestock Land								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 421	NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.			
	DRILLING STARTED 07/22/14	DRILLING ENDED 07/29/14	DEPTH OF COMPLETED WELL (FT) 1,192'	BORE HOLE DEPTH (FT) 1,192'	DEPTH WATER FIRST ENCOUNTERED (FT) 925'			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 582'			
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0'	40'	20"	16"	None	15 1/2"	.250	
	0'	757'	14 3/4"	9 5/8"	Thread & Collar	8.921"	36 lbs.	none
	690'	1,192'	8 3/4"	7" (502.14' Total) 317.96 perforated on bottom of liner	Thread & Collar	6.366"	23 lbs.	1/8"
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0'	40'	20"	Cemented	2 yds.	Top Pour		
	0	757'	14 3/4"	Float and shoe cemented to surface	962	Circulated		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER CP-1355	POD NUMBER 1	TRN NUMBER 549450
LOCATION Expl	215.33E.27.312	
		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	4'	4'	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	4'	28'	24'	Caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	28'	120'	92'	Sand & Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	120'	260'	140'	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	260'	757'	497'	Red & Brown Shale, and Clay (some blue)	<input type="radio"/> Y <input checked="" type="radio"/> N	
	757'	815'	58'	Red & Brown Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	815'	840'	25'	Blue Clay & Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	840'	925'	85'	Red and Brown Shale (some sandrock)	<input type="radio"/> Y <input checked="" type="radio"/> N	
	925'	975'	50'	Watersand and Gravel	<input checked="" type="radio"/> Y <input type="radio"/> N	
	975'	1,185'	210'	Watersand (brown sandrock)	<input checked="" type="radio"/> Y <input type="radio"/> N	
	1,185'	1,192'	7'	Red Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input checked="" type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	0' to 757' drilled with mud. 757' to 1192' drilled with air and foam.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
			COAKLY GLENIX		9/9/14	
		SIGNATURE OF DRILLER / PRINT SIGNEE NAME		DATE		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1355	POD NUMBER	1
LOCATION	215.33E.27.312	TRN NUMBER	549450
			PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP - 1355 East Standard (South)			OSE FILE NUMBER(S)		
	WELL OWNER NAME(S) Merchants Livestock/Glenn's Water Well Service, Inc.			PHONE (OPTIONAL) (575)398-2424		
	WELL OWNER MAILING ADDRESS P.O. Box 692			CITY Tatum	STATE NM	ZIP 88266
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 26	SECONDS 54.8	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
	LONGITUDE 103	33	58.3	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE/NW/SW Sec. 27, T21S, R33E on Merchants Livestock Land						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 421	NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.			
	DRILLING STARTED 7/29/14	DRILLING ENDED 8/2/14	DEPTH OF COMPLETED WELL (FT) 1192'	BORE HOLE DEPTH (FT) 1192'	DEPTH WATER FIRST ENCOUNTERED (FT) 925'			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 582'			
	DRILLING FLUID: <input type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0'	40'	20"	16"	None	15 1/2"	.250	
	0'	757'	14 3/4"	9 5/8"	Thread and Collar	.352	36 lbs.	none
	757'	1192'	8 3/4"	7"	Thread and Collar	6.5"	23 lbs.	1/8"

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0'	40'	20"	Cemented	2 yds	Top Pour
0'	757'	14 3/4"	Float and Shoe Cemented to Surface	1034	Circulated	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)			
FILE NUMBER	CP-1355	POD NUMBER	1	TRN NUMBER	54450
LOCATION	Exp1	21S.33E.27.312			PAGE 1 OF 2

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0'	4'	4'	Soil	<input type="radio"/> Y <input checked="" type="radio"/> N	
4'	28'	24'	Caleche	<input type="radio"/> Y <input checked="" type="radio"/> N	
28'	120'	92'	Sand and Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
120'	260'	140'	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
260'	757'	497'	Red and Brown Shale and Clay(some blue)	<input type="radio"/> Y <input checked="" type="radio"/> N	
757'	815'	58'	Red and Brown Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
815'	840'	25'	Blue Clay and Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
840'	925'	85'	Red and Brown Shale(some sandrock)	<input type="radio"/> Y <input checked="" type="radio"/> N	
925'	975'	50'	Watersand and Gravel	<input checked="" type="radio"/> Y <input type="radio"/> N	
975'	1185'	210'	Watersand(brown sandrock)	<input checked="" type="radio"/> Y <input type="radio"/> N	
1185'	1192'	7'	Red Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP				TOTAL ESTIMATED WELL YIELD (gpm): 50	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:					

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	0' to 757' drilled with mud. 757' to 1192' drilled with air and foam.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE
	<i>Corky Glenn</i> / Corky Glenn	8/7/14

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1355	POD NUMBER	1
LOCATION	Exp1	TRN NUMBER	549450
			PAGE 2 OF 2



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	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

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New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	CP 01357 POD1	4 3 1	27	21S	33E	634782	3591347

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE		
Driller Name: GLENN, CLARK A."CORKY"			
Drill Start Date: 08/16/2014	Drill Finish Date: 08/26/2014	Plug Date:	
Log File Date: 09/10/2014	PCW Rcv Date:	Source: Artesian	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size: 6.37	Depth Well: 1286 feet	Depth Water: 578 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	945	960	Sandstone/Gravel/Conglomerate
	960	1077	Shale/Mudstone/Siltstone
	1077	1215	Sandstone/Gravel/Conglomerate
	1215	1286	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	846	1286

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New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	CP 01411 POD1	2 2 34	21S	33E	635968	3590386	

Driller License: 1723	Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.	
Driller Name: RANDY STEWART		
Drill Start Date: 10/09/2014	Drill Finish Date: 10/14/2014	Plug Date:
Log File Date: 12/26/2014	PCW Rcv Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 50 GPM
Casing Size: 9.88	Depth Well: 1149 feet	Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	800	820	Sandstone/Gravel/Conglomerate
	820	1145	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	780	1149

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) POD 1 CP-1411				OSE FILE NUMBER(S)				
	WELL OWNER NAME(S) BC Operating				PHONE (OPTIONAL) 432-684-9696				
	WELL OWNER MAILING ADDRESS 4000 Big Spring St. STE 310				CITY Midland		STATE TX		ZIP 79705
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES		SECONDS		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE	32	26	32.4	N			
		LONGITUDE	103	33	12.9	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE									

2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1723		NAME OF LICENSED DRILLER Randal P Stewart			NAME OF WELL DRILLING COMPANY Stewart Brothers Drilling Company					
	DRILLING STARTED 10/9/14		DRILLING ENDED 10/14/14		DEPTH OF COMPLETED WELL (FT) 1149		BORE HOLE DEPTH (FT) 1149		DEPTH WATER FIRST ENCOUNTERED (FT) 800		
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)								STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:										
	DRILLING METHOD: <input type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:										
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
	FROM	TO									
	0	40	20	A 53 Grade B		Welded	15.5	.250			
	+2	800	14 3/4	A 53 Grade B		Threaded	10.02	.365			
	780	1149	9 7/8	A 53 Grade B		Welded	8	.322	.125		

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO						
	0	40	20	Neat Cement		31	Pressure via Tremi	
	0	800	14 3/4	Class C (Chief Services)		540 Sks	Chief Services	

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FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1411	POD NUMBER	1	TRN NUMBER	554668
LOCATION	Exp	215.33E.34.22			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	40	40	Brown Fine Sand and Clavs, some caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	40	100	60	Reddish Brown clavs and Sands	<input type="radio"/> Y <input checked="" type="radio"/> N	
	100	200	100	Clavs and Sands	<input type="radio"/> Y <input checked="" type="radio"/> N	
	200	300	100	Red and Brown clav with some sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	300	400	100	Red Clav	<input type="radio"/> Y <input checked="" type="radio"/> N	
	400	500	100	Clav and Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	500	700	200	Reddish and arav clav	<input type="radio"/> Y <input checked="" type="radio"/> N	
	700	750	50	Red Clav and harder sands and aravels	<input type="radio"/> Y <input checked="" type="radio"/> N	
	750	770	20	Fine sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	770	780	10	Grav Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	780	790	10	Grav Brown Sandstone	<input type="radio"/> Y <input checked="" type="radio"/> N	
	790	800	10	Brown SS with some arav gravel	<input type="radio"/> Y <input checked="" type="radio"/> N	
	800	820	10	Santa Rosa SS	<input checked="" type="radio"/> Y <input type="radio"/> N	
	820	1145	325	Santa Rosa Sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm): 50	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Danny White, Don Ward, Davis Gaddy		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE
		10/30/14

STATE ENGINEER OF TEXAS
 ROSEWELL, NEW MEXICO
 2014 DEC 26 AM 9:17

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1411	POD NUMBER	1
LOCATION	BAPI	TRN NUMBER	554668
			PAGE 2 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	40	40	Brown Fine Sand and Clavs. some caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	40	100	60	Reddish Brown clavs and Sands	<input type="radio"/> Y <input checked="" type="radio"/> N	
	100	200	100	Clavs and Sands	<input type="radio"/> Y <input checked="" type="radio"/> N	
	200	300	100	Red and Brown clay with some sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	300	400	100	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	400	500	100	Clay and Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	500	700	200	Reddish and gray clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	700	765	65	Red Clay and harder sands and gravels	<input type="radio"/> Y <input checked="" type="radio"/> N	
	765	770	5	Fine sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	770	810	40	Grav Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	810	820	10	Grav Brown Sandstone	<input type="radio"/> Y <input checked="" type="radio"/> N	
	820	830	10	Grav and Brown SS	<input type="radio"/> Y <input checked="" type="radio"/> N	
	830	840	10	Grav Brown SS	<input type="radio"/> Y <input checked="" type="radio"/> N	
	840	1125	285	Santa Rosa Sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm): 50	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		Danny White, Don Ward, Davis Gaddy

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE
	 Randy Stewart	10/30/14

STATE ENGINEER
 RNSWELL, NE
 2014 DEC 26
 9

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1411	POD NUMBER	2
LOCATION	Exp	TRN NUMBER	554668
			PAGE 2 OF 2

57

Revised December 1975

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

CAPITAN BASIN

BASIN NAME

Declaration No. CP-600

Date received April 17, 1979

79 APR 20 PM 3 01

STATEMENT

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

1. Name of Declarant THE MERCHANT LIVESTOCK COMPANY
Mailing Address Box 548 Carlsbad
County of Eddy, State of New Mexico

2. Source of water supply shallow
(artesian or shallow water aquifer)

3. Describe well location under one of the following subheadings:
a. $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 25 Twp. 21S Rge. 33-E N.M.P.M., in
Lea County.
b. Tract No. _____ of Map No. _____ of the _____
c. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone
in the _____ Grant.
On land owned by _____

4. Description of well: date drilled 1940 driller _____ depth 65' feet.
outside diameter of casing 6 5/8 inches; original capacity _____ gal. per min.; present capacity 3
gal. per min.; pumping lift _____ feet; static water level 37 feet (above) (below) land surface;
make and type of pump _____
make, type, horsepower, etc., of power plant _____

Fractiional or percentage interest claimed in well 100%
5. Quantity of water appropriated and beneficially used _____ up to 3
~~XXXXXXXXXXXX~~ (acre feet per annum)
for stock water purposes.

6. Acreage actually irrigated _____ acres, located and described as follows (describe only lands actually irrigated):

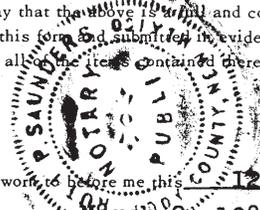
Subdivision	Sec.	Twp.	Range	Acre Irrigated	Owner
			<u>stock only</u>		<u>The Merchant Livestock Co.</u>

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use _____ 1940 and since that time
month _____ day _____ year _____
has been used fully and continuously on all of the above described lands or for the above described purposes except
as follows: _____

8. Additional statements or explanations
name of well - West Well

I, J. D. Merchant, Jr., President being first duly sworn upon my oath,
depose and say that the above is true and complete statement prepared in accordance with the instructions on the re-
verse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully
read each and all the items contained therein and that the same are true to the best of my knowledge and belief.



THE MERCHANT LIVESTOCK CO., declarant.

by: J. D. Merchant, Jr., President

Subscribed and sworn to before me this 12th day of April, A.D. 1979

My commission expires March 2, 1980
Pitt Saunders Notary Public

546673

STATE ENGINEER OFFICE
SANTA FE, N.M.
79 APR 17 AM 8 01

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) _____, Township _____, Range _____ N. M. P. M.

INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2 1/2 acre subdivision. If located on unsurveyed lands, describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

April 17, 1979

Files: CP-584; CP-585; CP-586; CP-587; CP-588;
CP-589; CP-590; CP-591; CP-592; CP-593;
CP-594; CP-595; CP-596; CP-597; CP-598;
CP-599; CP-600; CP-601; CP-602

The Merchant Livestock Company
P. O. Box 548
Corlbad, NM 88220

Gentlemen:

Enclosed are your copies of Declarations of Owner of Underground
Water Right as numbered above, which have been filed for record
in the office of the State Engineer.

Please refer to each individual number in all future correspondence
concerning these declarations.

The filing of these declarations does not indicate affirmation or
rejection of the statements contained therein.

Yours very truly,

J. C. Groseclose
Basin Supervisor

JCG/eh
encls.
cc: Santa Fe

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

CAPTAN BASIN
BASIN NAME

Declaration No. CP-601 Date received April 17, 1979

80227
19 APR 20 PM 3 19
STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

STATEMENT

1. Name of Declarant THE MERCHANT LIVESTOCK COMPANY
Mailing Address P.O. Box 548 Carlsbad
County of Eddy, State of New Mexico

2. Source of water supply shallow
(artesian or shallow water aquifer)

3. Describe well location under one of the following subheadings:
a. $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 28 Twp. 21S Rge. 33-E N.M.P.M., in
Lea County.
b. Tract No. _____ of Map No. _____ of the _____
c. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone
in the _____ Grant.
On land owned by _____

4. Description of well: date drilled 1952 driller _____ depth 223' feet.
outside diameter of casing 6 5/8 inches; original capacity _____ gal. per min.; present capacity 3
gal. per min.; pumping lift _____ feet; static water level 178 feet (above) (below) land surface;
make and type of pump _____
make, type, horsepower, etc., of power plant _____
Fractional or percentage interest claimed in well 100%

5. Quantity of water appropriated and beneficially used up to 3
~~(acre feet per annum)~~ (acre feet per annum)
for stock water purposes.

6. Acreage actually irrigated _____ acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acre Irrigated	Owner
				<u>stock only</u>	<u>The Merchant Livestock Co.</u>

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use 1952 and since that time
month _____ day _____ year _____
has been used fully and continuously on all of the above described lands or for the above described purposes except
as follows: _____

8. Additional statements or explanations
name of well = Standard

I, J. D. Merchant, Jr., President being first duly sworn upon my oath,
depose and say that the above is a full and complete statement prepared in accordance with the instructions on the re-
verse side of this form and submitted in _____ ownership of a valid underground water right, that I have carefully
read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.



THE MERCHANT LIVESTOCK CO. declarant.
by: J. D. Merchant, Jr., President
Subscribed and sworn to before me this 12th day of April, A.D. 1979
My commission expires March 2, 1980
J. Saunders Notary Public

FILED
UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM.
ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) _____, Township _____, Range _____ N. M. P. M.

INSTRUCTIONS

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Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2 1/2 acre subdivision. If located on unsurveyed lands, describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.



SF

EL

APR 20 PM 3 00

April 17, 1979

STATE ENGINEER OFFICE
CARRISBADO, N.M. 81501

Files: CP-584; CP-585; CP-586; CP-587; CP-588;
CP-589; CP-590; CP-591; CP-592; CP-593;
CP-594; CP-595; CP-596; CP-597; CP-598;
CP-599; CP-600; CP-601; CP-602

The Merchant Livestock Company
P. O. Box 548
Carlsbad, NM 88220

Gentlemen:

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Please refer to each individual number in all future correspondence concerning these declarations.

The filing of these declarations does not indicate affirmation or rejection of the statements contained therein.

Yours very truly,

J. C. Groseclose
Basin Supervisor

JCG/fh
Encls.
cc: Santa Fe

563298

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 60633

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 60633
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Closure Report Approved for area not being deferred. 2. Deferral for area under production equipment is granted. Future investigation/remediation to be completed at plug and abandonment of tank battery.	1/7/2022