

March 24, 2020

**Tracking #: nRM2000354631
Dagger Lake Battery Oct 30 2019
Remediation/Workplan**



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

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

C-141

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2000354631
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party IAG9G-191112-C-1410

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

Location of Release Source

Latitude 32.418707Longitude -103.601703

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Dagger Lake Tank Battery	Site Type: Tank Battery
Date Release Discovered: October 30, 2019	API# 30-025-45579, 30-025-45854, 30-025-45703, 30-025-45853

Unit Letter	Section	Township	Range	County
L	05	T22S	R33E	Lea

Surface Owner: State Federal Tribal Private (Merchant Livestock)

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) 16	Volume Recovered (bbls): 0
<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Well head pressures and tank levels trends suggest that the separator dump valves failed around 8:18 am and pressure started building up on the separators until the releases occurred at 8:33 am. The wells supply the tank battery subsequently were shut-in at 8:48 am. Taking in consideration flowing well conditions and adjusting for back pressure changes, the estimates combined oil flow rate of all four (4) wells during this timeframe was about 1.06 bbl/mi which equates to a total release of 16 bbl of oil.

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input 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: The release area had to be verified that it was <u>not</u> within an archeological area. Archeologists determined the release area is not within the nearby archeological area. After verification on Nov. 1st, 2019; Microblaze was applied to the release area on Nov. 4 th , 2019. Vertical and Horizontal characterization will be conducted.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Andrew Parker</u> Title: <u>Sr. Env. Specialist</u> Signature: <u></u> Date: <u>Nov, 07, 2019</u> email: <u>andrew@rthicksconsult.com</u> Telephone: <u>970-570-9535</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>01/03/2020</u>

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? <u>Plate 4</u>	___ 395 ___ (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? <u>Plate 7</u>	<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)? <u>Plate 7</u>	<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? <u>Plate 8</u>	<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? <u>Plate 6</u>	<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? <u>Plate 6</u>	<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? <u>Plate 6</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? <u>Plate 9</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? <u>Plate 10</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? <u>Plate 11</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? <u>Plate 12</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

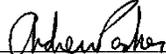
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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

Signature:  Date: March 24, 2020

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

OCD Only

Received by: Cristina Eads Date: 03/27/2020

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Remediation Plan

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

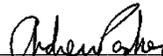
- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation 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:  Date: March 24, 2020

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

OCD Only

Received by: Cristina Eads Date: 03/27/2020

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 05/04/2020

Remediation/Workplan

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

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745
✦ Durango, CO ✦ Carlsbad-Hobbs, NM ✦

March 24, 2020

NMOCD District 1
District 1 - HOBBS
1625 N. French Drive
Hobbs, New Mexico 88240

RE: Remediation/Workplan
Incident #: nRM2000354631
Dagger Lake Tank Battery 10302019
Lat/Long: 32.418707 / -103.601703 (NAD 83)
UL L, Sec 5, T22S R33E; Lea County

NMOCD:

R.T. Hicks Consultants is pleased to submit the following workplan, on the behalf of Advance Energy Partners Hat Mesa LLC, to remediate the crude oil release at the Dagger Lake Battery that occurred on October 30, 2019. The cause of the release was failure of the separator dump valves. The estimated volume of the release was 16 bbl of oil. The release occurred on New Mexico State land.

The report is divided into five sections:

<i>Initial Response - Remediation</i>	2
<i>Characterization</i>	4
<i>Proposed Workplan - Remediation</i>	6
<i>Proposed Confirmation Sampling</i>	7

Plates

- *Plate 1-3 – Site Map*
- *Plates 4 through 12 – As labeled on the C-141 Characterization Checklist*

Tables

- *Table 1 – Summary of Soil Sampling*
- *Table 2 – Nearby OSE Well Summary*

Appendices

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

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Dagger Lake Battery 10302019

Initial Response - Remediation

R.T. Hicks Consultants mapped the release extent on the day of the release. As shown on Plate 1, the release area consisted of:

- An area of saturation immediately south of the well pad and extending south approximately 28-feet into an area of prior disturbance caused by the construction of the well pad (Figure 1).
- An area of surface spray. Windy conditions at the time of the release caused oil to spray approximately 650-feet south-southwest. Oil spray was limited to the vegetation and surface soils. Visual observations suggested that impact to sub-surface soils did not occur.



Figure 1: Photo of release area viewing west-southwest. The south edge production pad berm is visible photo right. The area of saturation is visible photo center. The pastureland exhibits oil surface spray, background center and left.

Soil samples were obtained during the release mapping and was limited to the location extent due to concerns of encroachment onto an archeology area. The soil samples (Plate 2 & Table 1) demonstrate:

- the surface at sample ID “S1 Pad” exhibit chloride and hydrocarbon constituents below Table 1 of NMAC 19.15.29 Closure Criteria at 0.25 and 0.75-feet below ground surface (bgs).
- the upper few inches of soil within the area of saturation at sample ID “RS” exhibit TPH Ext. concentrations of 33,540 mg/kg at the surface. A composite sample from the surface to 3-ft bgs exhibit TPH Ext. concentrations below Table 1 of NMAC 19.15.29 Closure Criteria.

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On Nov. 1st, 2019 archeologists determined the release area was not within the nearby archeological area. Therefore, on Nov. 4th, 2019 the release area was treated with Microblaze (Figure 2) to begin the biodegradation process of hydrocarbons.



Figure 2: Microblaze application in the oil spray area in pastureland.

Shortly after the application of Microblaze, cooler temperatures prevented the microbial process to occur and cause biodegradation of hydrocarbons. It is anticipated that upon return of warmer temperatures this spring, the microbial activity of the Microblaze will resume the natural bioremediation process of hydrocarbons.

On March 12, 2020, additional sampling was conducted to determine the effect of initial Microblaze application and to determine whether the release impacted subsurface soils.

- The sample furthest from the release (HA-01) had chloride and hydrocarbon constituents below Table 1 of NMAC 19.15.29 Closure Criteria at 0.5 and 1 foot below ground surface.
- The elevated TPH concentrations in sample HA-02 at 1 ft below ground surface was likely the result of cross-contamination from hydrocarbons at the surface during the collection of the deeper hand auger sample. Therefore, the location was resampled using a trench (HA-02 +3Ft East) dug with a hand shovel. Analytical results show that TPH is below Table 1 of NMAC 19.15.29 Closure Criteria.

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Characterization

The following sections address items as described in 19.15.29.11.A NMAC, paragraphs 1- 4. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Plate 4-12).

Site Map

Horizontal extent of the release was determined by visual observations. Plate 1 shows the release extent relative to pipelines, the production pad, and tank batteries.

Plate 2 show sample locations relative to release extent, as well as corresponding chloride and TPH Extended concentrations.

Plate 3 shows the proposed confirmation sampling grid.

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 (Plate 4). OSE well logs are located in Appendix A. Spatial analysis shows:

- The nearest water well (CP-00854) is approximately 2.2-miles to the northeast with a depth to water of 600 feet.
- The second nearest water well (CP-01356) is approximately 2.4-miles to the northeast with a depth to water of 555 feet.

Review of well logs available from the New Mexico Office of the State Engineer (OSE) online database (see Table 2) shows that the average depth to the top of the water-bearing zone, for nearby wells under Artesian pressure, exceeds 800 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 the nearby wells have a minimum of 266 feet of pressure head above the confining layer. It is important to recognize that at CP-00854 ground water is at a depth of 755 feet and confining pressure causes the water column to rise 155 feet for a perceived depth to water of 600 feet below ground surface (bgs).

We recognize that thin water-bearing units above the regional water-bearing zone may not have been recorded by the well drillers. However, more shallow water-bearing zones would be sandstone units within the Dockum Group redbeds and, like the regional water-bearing zone, would be under artesian pressure.

Ground water flow is to the south-southeast as demonstrated on the potentiometric surface map (Plate 5). We relied on USGS well to create the potentiometric surface map to determine direction of ground water flow and calculated depth to water at the release location.

The potentiometric surface indicates that the depth to water is approximately 395 feet below ground surface, where 395 feet = 3650 ft surface elevation – 3255 ft potentiometric surface.

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Dagger Lake Battery 10302019***Wellhead Protection Area***Plate 6 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).
- 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

Distance to Nearest Significant Water Course

Plate 7 shows that the release extent is:

- Within ½ mile of any significant water course. The water course is located 600 feet west of the release.
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Not within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

Soil/Waste Characteristics

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and south of an active production pad.

Advance Energy will reclaim the surface according to Closure Criteria listed in Table 1 of 19.15.29 NMAC. With a depth to water >100 feet, closure criteria limits are:

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

The release occurred within an area of silty sand from the surface to 4.5 feet. Caliche is present at 4 to 4.5 feet below ground surface.

The release extent covers an area of approximately 16,339 sq. yrds. Assuming an impacted depth of 0.5 feet, the volume to be remediated is 2,723 cu. yrds.

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Proposed Workplan - Remediation

We propose to resume remediation of impacted areas by the end of March 2020 when warmer temperatures will promote efficacy of the biologic activity of Microblaze.

***Important:** No surface disturbance or trespass shall occur within the “Access Prohibited” area without prior authorization and R.T. Hicks Consultants personnel present.*

Access to the release area is limited by:

- Tank battery and steep berm north of the release (southern edge of production pad)
- Surface flow lines
- “Access Prohibited” area to the east
- No access roads into the release area to load impacted dirt into dump trucks without causing additional surface disturbance.

While it is possible to install half-moon crossovers over the layflats, the loose silty sand surface will not support the crossovers as heavy equipment drives over the crossover – risking damage to the layflat and increasing the potential for additional releases. A caliche road base will be required to support the crossovers. These factors prevent a dig-haul remedy without causing unnecessary surface disturbance and suggests that in-situ bioremediation is a preferred option.

We therefore recommend using a skid steer to access the release area to assist with remedial activities.

1. Remove surface lines no longer in-use (Figure 3).



Figure 3: Surface flow lines within remediation area. The layflat in the foreground can be removed prior to remedial activities.

2. Install crossovers, that will support a skid steer, over the remaining flowlines.
3. Remediation of “Oil Spray Area”
 - a. Using a skid steer, brush hog and mulch dead vegetation impacted by the release and disk soil that has been previously treated with Microblaze. The mulch will add

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- organic matter into the soil providing essential nutrients for germination and growth during revegetation.
- b. Apply 2nd treatment of Microblaze.
 - c. One month after 2nd treatment, apply additional fresh water and disk area.
 - d. Two months after treatment, obtain confirmation soil samples for analysis of chloride, BTEX, TPH, at
 - the surface,
 - 0.5-ft below ground surface
 - e. If soil samples exhibit concentrations below Table 1 of 19.15.29 NMAC Closure Criteria,
 - seed the area
 - submit final closure plan.
 - f. If soil samples do not meet closure criteria, we will repeat with Microblaze application processes as described above (steps 3b – e).
4. Remediation of “Area of Saturation”
- a. Using a skid steer, disk soil that has been previously treated with Microblaze.
 - b. Apply 2nd treatment of Microblaze.
 - c. One month after 2nd treatment, apply additional fresh water and disk area.
 - d. Two months after treatment, obtain confirmation soil samples for analysis of chloride, BTEX, TPH, at
 - the surface,
 - 0.5-ft below ground surface
 - e. If soil samples exhibit concentrations below Table 1 of 19.15.29 NMAC Closure Criteria,
 - seed and contour the area
 - submit final closure plan.
- otherwise, repeat steps 4b – e.

Proposed Confirmation Sampling

Plate 3 shows the proposed sampling grid for confirmation sampling. Sampling grids within the oil spray area are larger as the area was only impacted by an oil spray on the surface and no saturation of subsurface soils was observed during initial remediation response.

A 5-point composite base sample (at surface and 0.5 ft) will be collected from each sample grid for confirmation sampling. Five-point composite sample points will be evenly spaced within each sample grid to obtain a representative sample of the area (Figure 4, below example).

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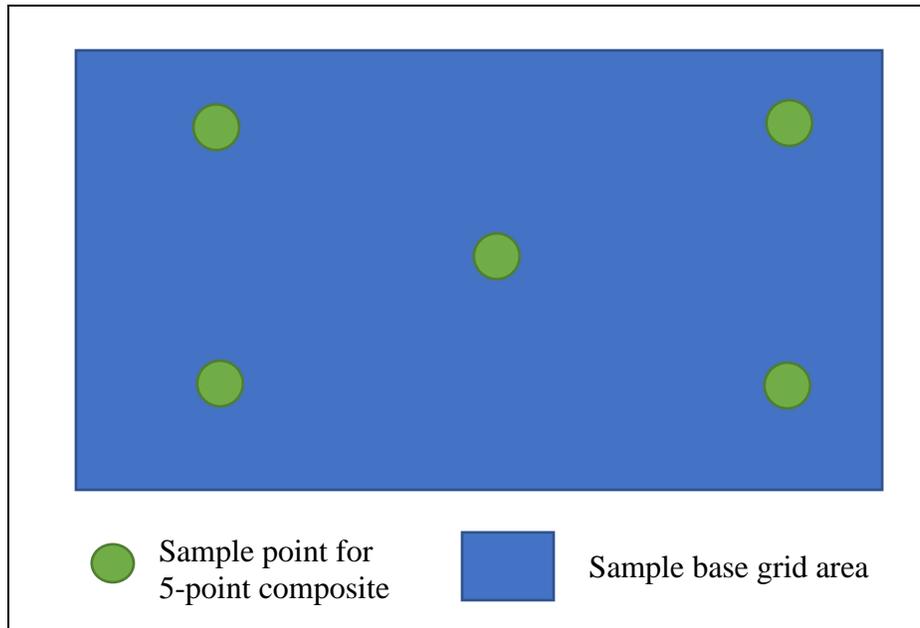


Figure 4: Example of 5-point sample grid for composite sampling.

Five-point composite soil samples will be collected along the walls of the sample grid. Sample points for the composite wall sample will be evenly distributed along the wall to obtain a representative 5-point composite sample.

If soil confirmation sampling exceeds Table 1 of 19.15.29 NMAC Closure Criteria concentrations, remediation will continue until soil confirmation results are below Closure Criteria.

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

Sincerely,
R.T. Hicks Consultants, Ltd.

Andrew Parker
Sr. Env. Specialist

Copy: David Harwell (DHarwell@advanceenergypartners.com);
Advance Energy Partners Hat Mesa, LLC
Ryan Mann (rmann@slo.state.nm.us); State Land Office
Clabe Pearson (clabe@merchantlivestock.com); Merchant Livestock
Brad Blevins (bblevins5252@gmail.com); Merchant Livestock

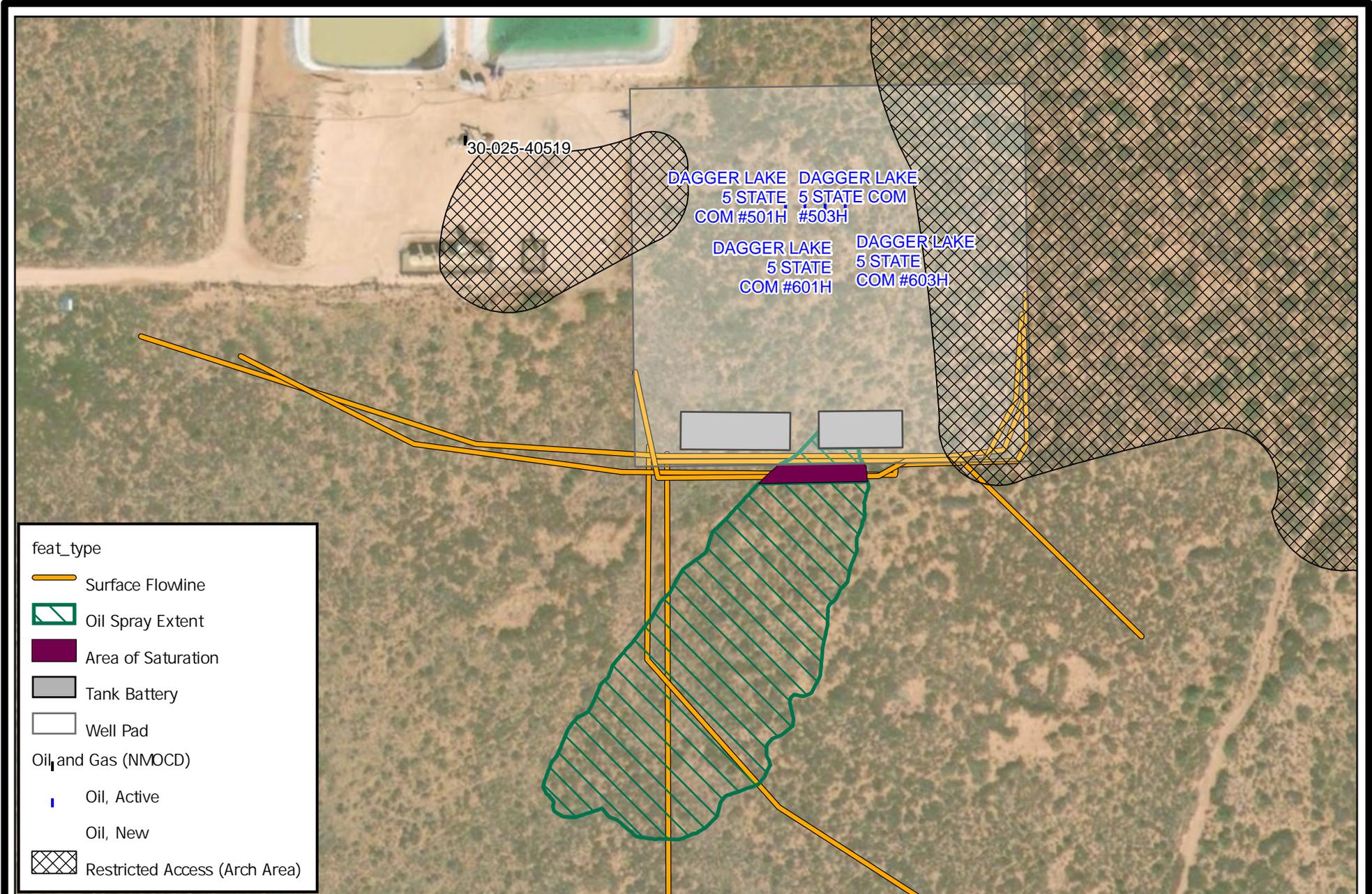
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Plates

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Albuquerque, NM 87104

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feat_type

-  Surface Flowline
-  Oil Spray Extent
-  Area of Saturation
-  Tank Battery
-  Well Pad
- Oil, and Gas (NMOCD)
-  Oil, Active
-  Oil, New
-  Restricted Access (Arch Area)



0 100 200
US Feet

R.T. Hicks Consultants, Ltd
 901 Rio Grande Blvd NW Suite F-142
 Albuquerque, NM 87104
 Ph: 505.266.5004

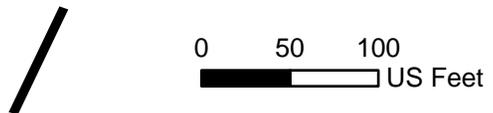
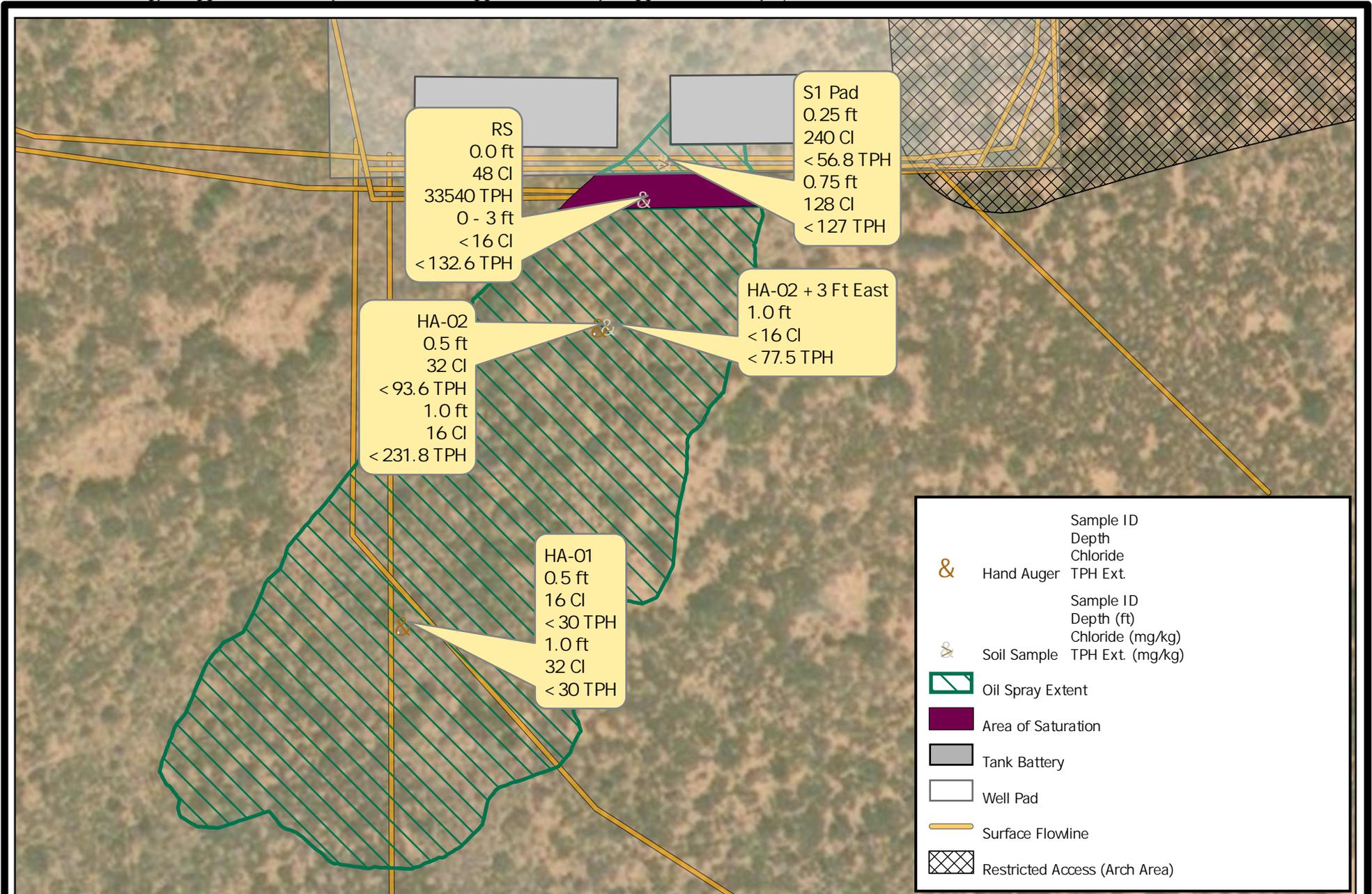
Release Extent

Advance Energy Hat Mesa LLC
 Dagger Lake Battery 10302019

Plate 1

March 12 2020

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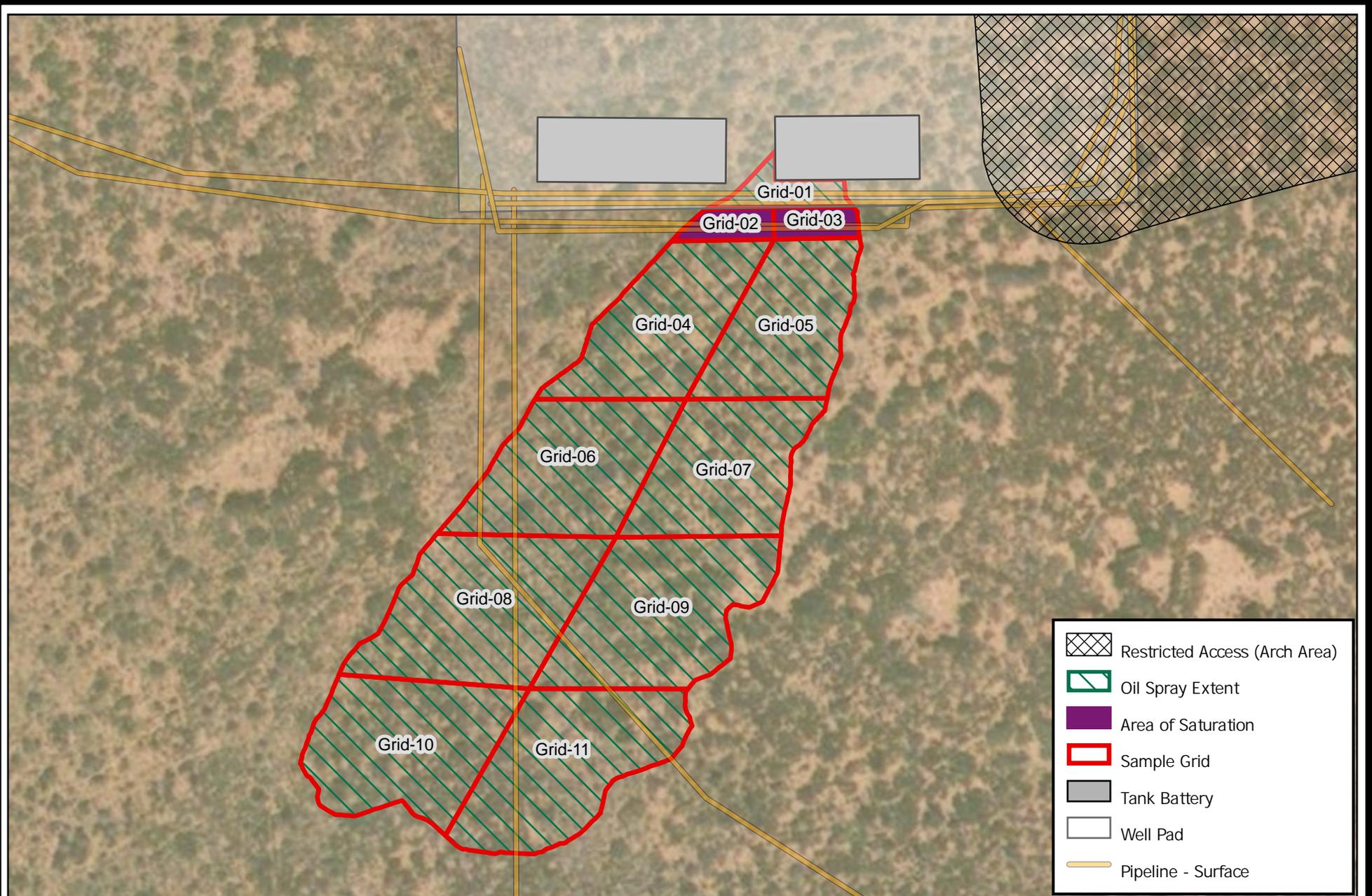


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 901 Rio Grande Blvd NW Suite F-142
 Albuquerque, NM 87104
 Ph: 505.266.5004

Sample Locations with Chloride
 and TPH Concentrations
 Advance Energy Hat Mesa LLC
 Dagger Lake Battery 10302019

Plate 2
 March 12 2020

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US Feet

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Ph: 505.266.5004

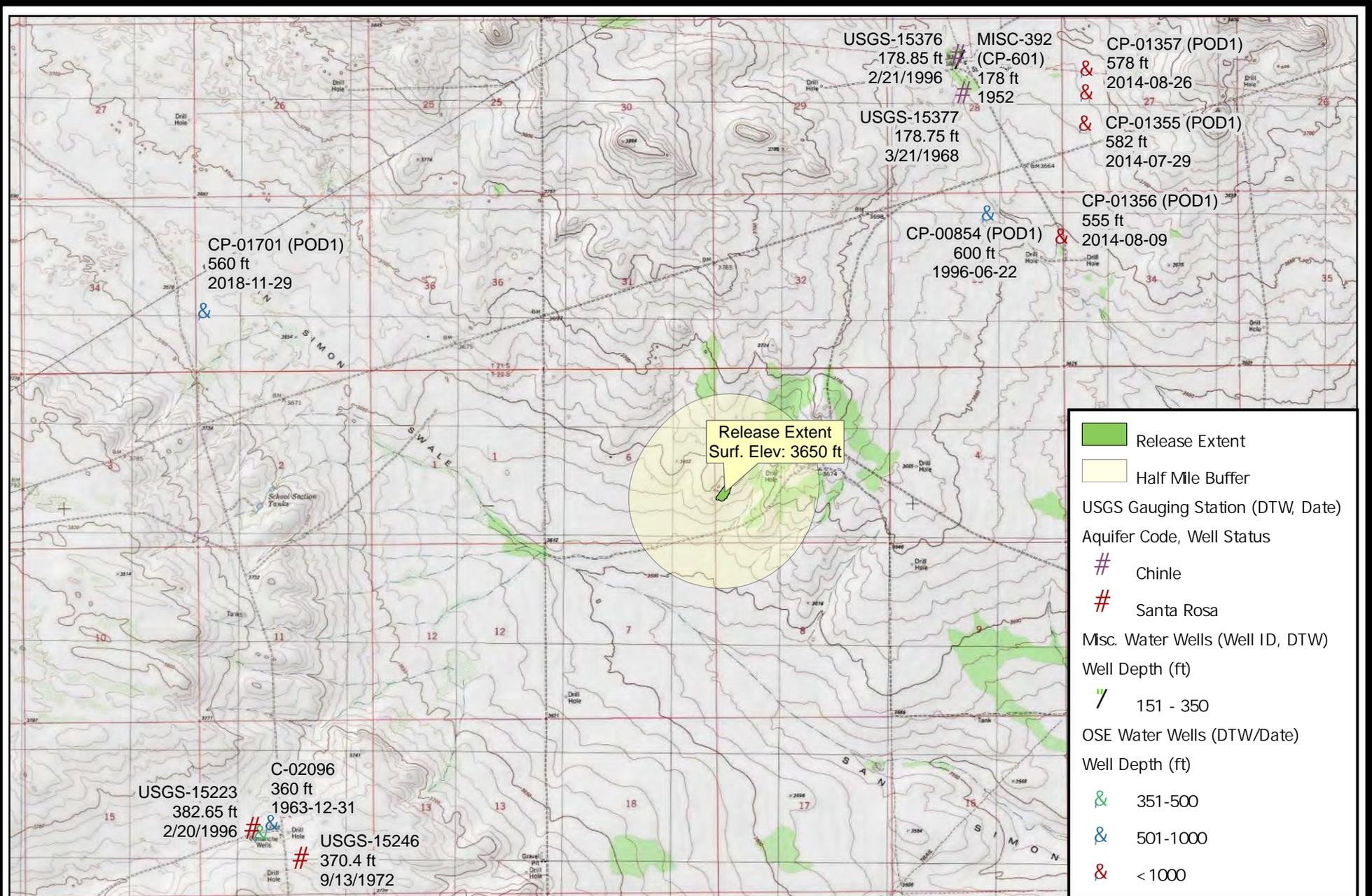
Proposed Sample Grid

Advance Energy Hat Mesa LLC
Dagger Lake Battery 10302019

Plate 3

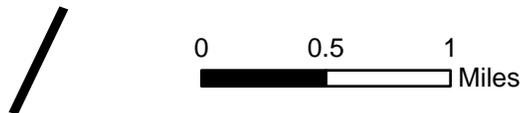
March 12 2020

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Legend

- Release Extent
- Half Mile Buffer
- USGS Gauging Station (DTW, Date)
- Aquifer Code, Well Status
- # Chinle
- # Santa Rosa
- Misc. Water Wells (Well ID, DTW)
- Well Depth (ft)
- 151 - 350
- OSE Water Wells (DTW/Date)
- Well Depth (ft)
- 351-500
- 501-1000
- < 1000

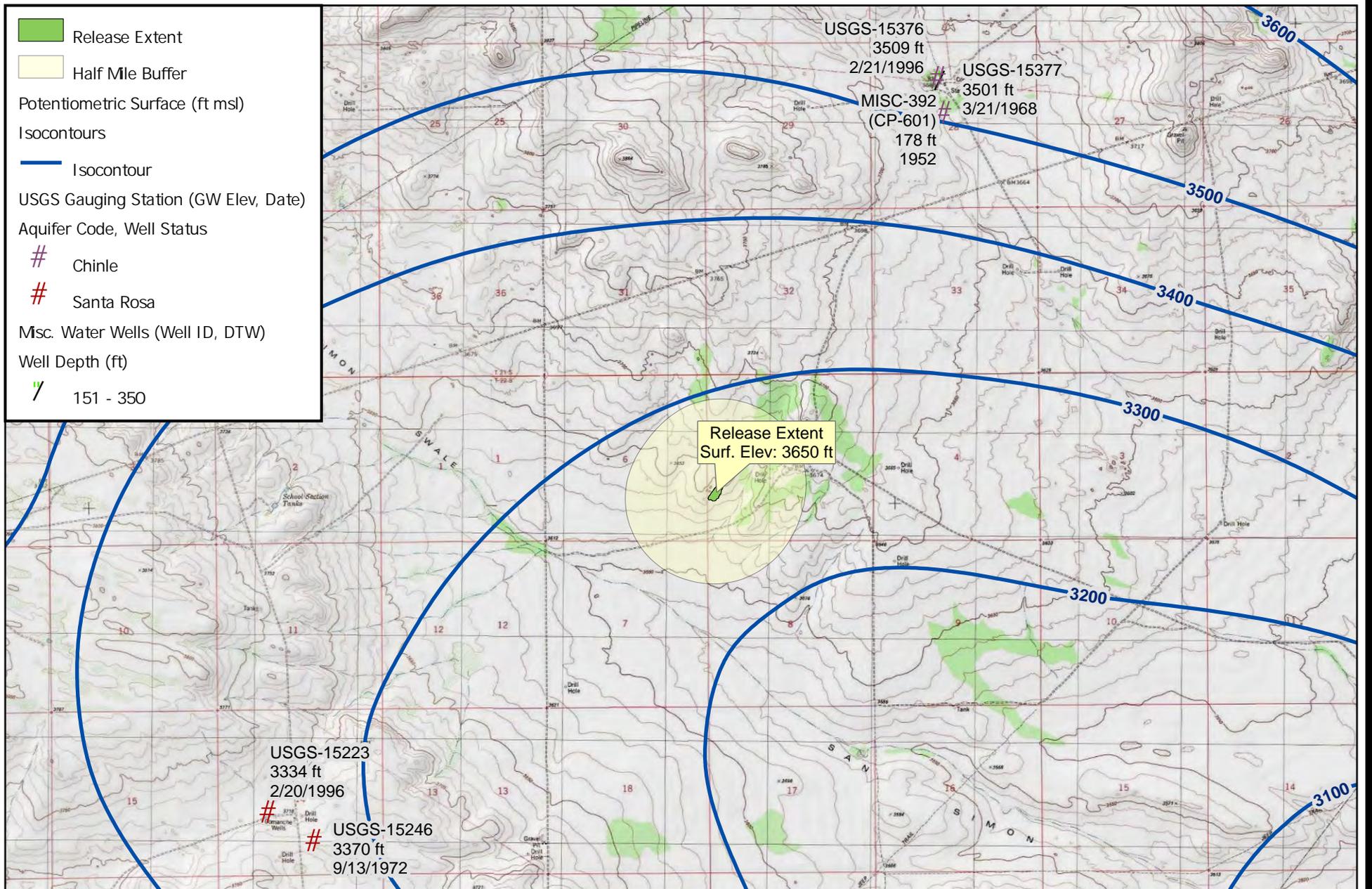


R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505.266.5004

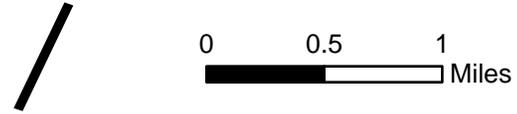
Depth to Water
Advance Energy Hat Mesa LLC
Dagger Lake Battery 10302019

Plate 4
March 12 2020

M:\Advance Energy\Dagger Lake Battery Oct 30 2019\daggerLakeBattery\daggerLakeBattery.aprx



Release Extent
 Half Mile Buffer
 Potentiometric Surface (ft msl)
 Isocontours
 Isocontour
 USGS Gauging Station (GW Elev, Date)
 Aquifer Code, Well Status
Chinle
Santa Rosa
 Misc. Water Wells (Well ID, DTW)
 Well Depth (ft)
/ 151 - 350

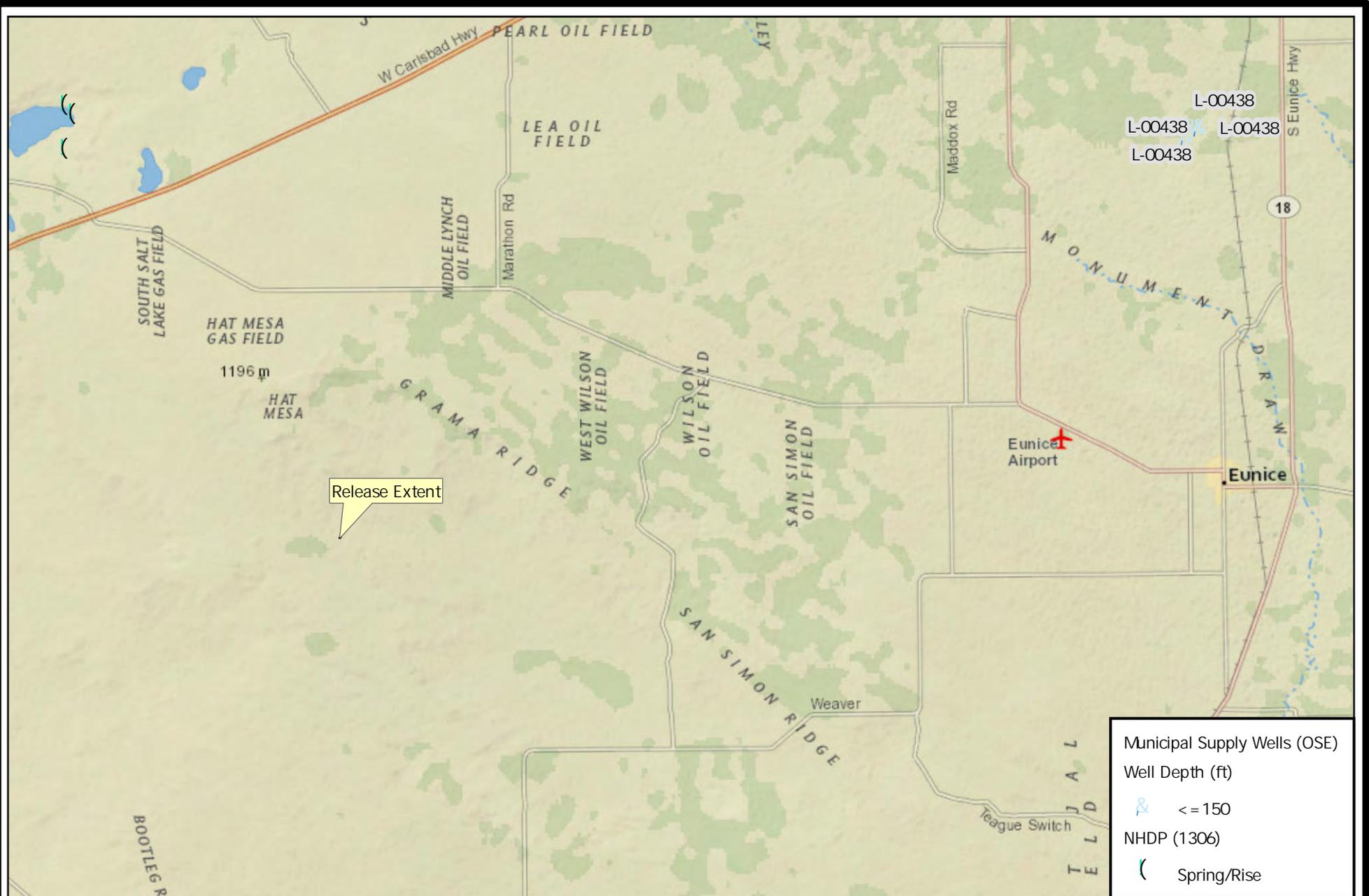


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 Albuquerque, NM 87104
 Ph: 505.266.5004

Potentiometric Surface
 Advance Energy Hat Mesa LLC
 Dagger Lake Battery 10302019

Plate 5
 March 12 2020

M:\Advance Energy\Dagger Lake Battery Oct 30 2019\daggerLakeBattery\daggerLakeBattery.aprx

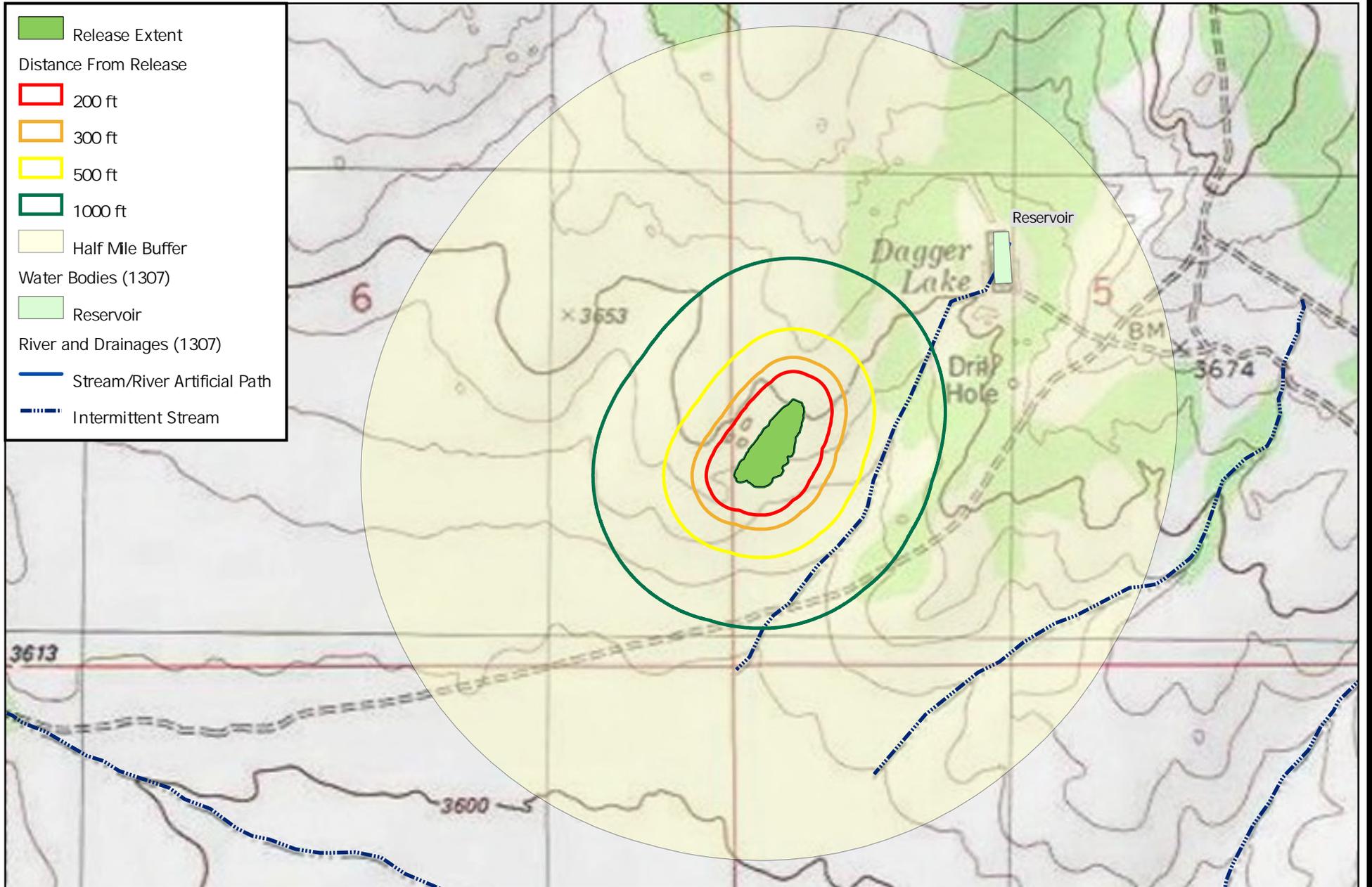


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 901 Rio Grande Blvd NW Suite F-142
 Albuquerque, NM 87104
 Ph: 505.266.5004

Wellhead Protection
 Advance Energy Hat Mesa LLC
 Dagger Lake Battery 10302019

Plate 6
 March 12 2020

M:\Advance Energy\Dagger Lake Battery Oct 30 2019\daggerLakeBattery\daggerLakeBattery.aprx

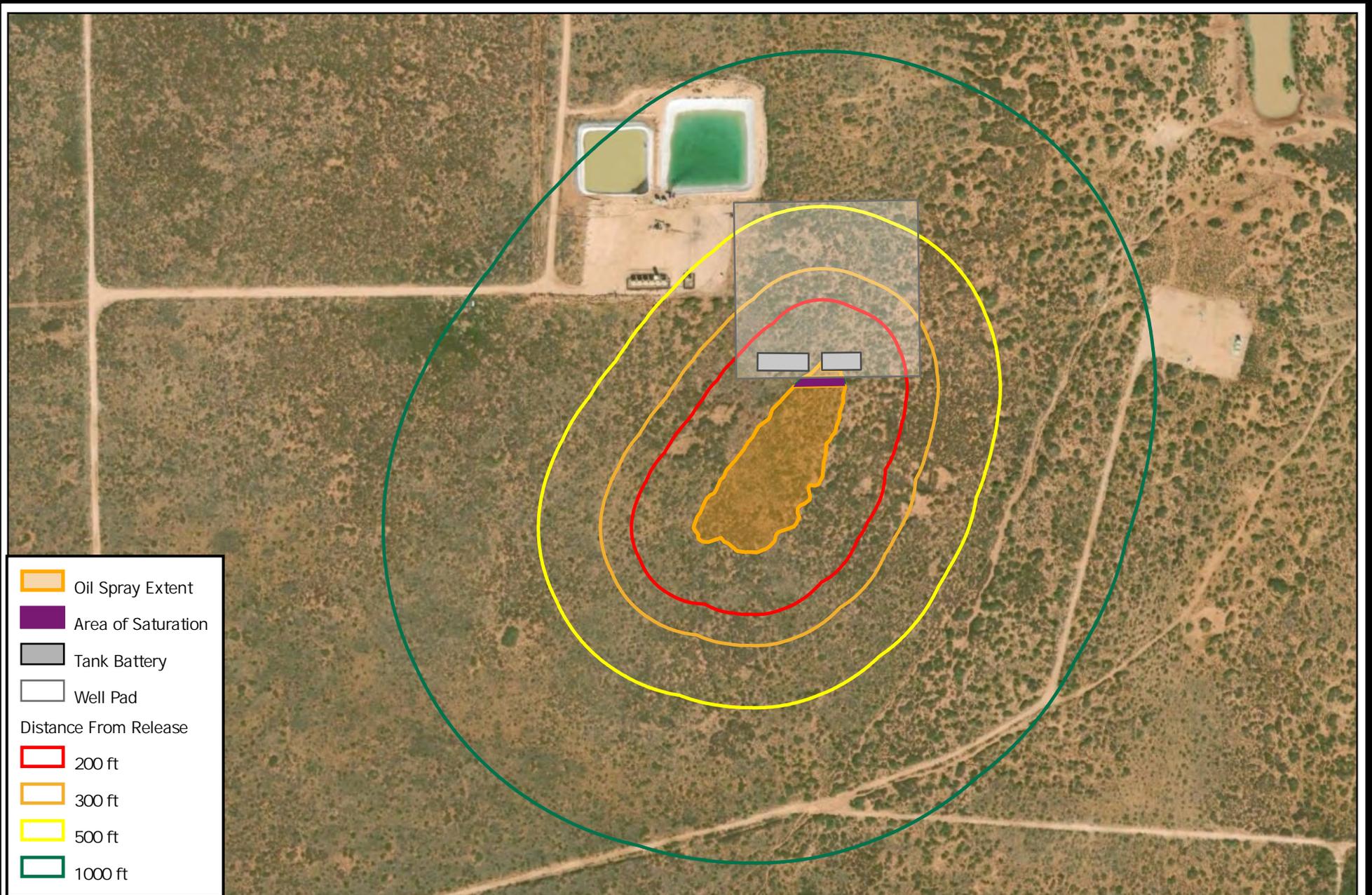


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Albuquerque, NM 87104
Ph: 505.266.5004

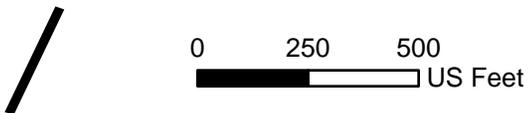
Significant Water Courses
Advance Energy Hat Mesa LLC
Dagger Lake Battery 10302019

Plate 7
March 12 2020

M:\Advance Energy\Dagger Lake Battery Oct 30 2019\daggerLakeBattery\daggerLakeBattery.aprx



-  Oil Spray Extent
-  Area of Saturation
-  Tank Battery
-  Well Pad
- Distance From Release
-  200 ft
-  300 ft
-  500 ft
-  1000 ft

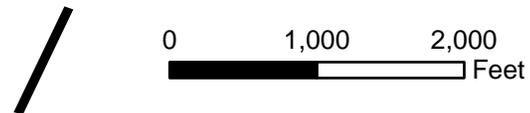
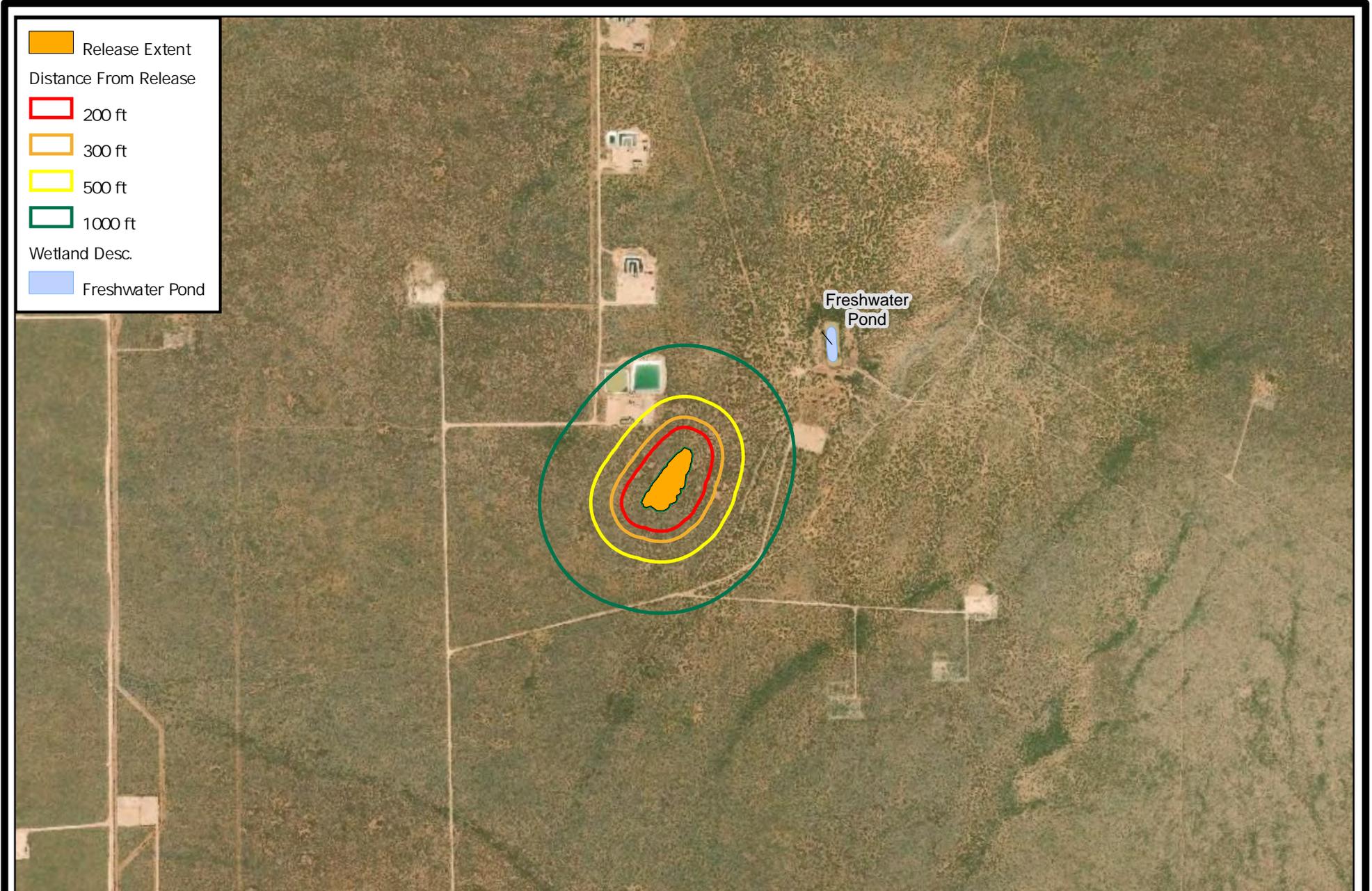


R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505.266.5004

Nearby Structures
Advance Energy Hat Mesa LLC Dagger Lake Battery 10302019

Plate 8
March 12 2020

M:\Advance Energy\Dagger Lake Battery Oct 30 2019\daggerLakeBattery\daggerLakeBattery.aprx

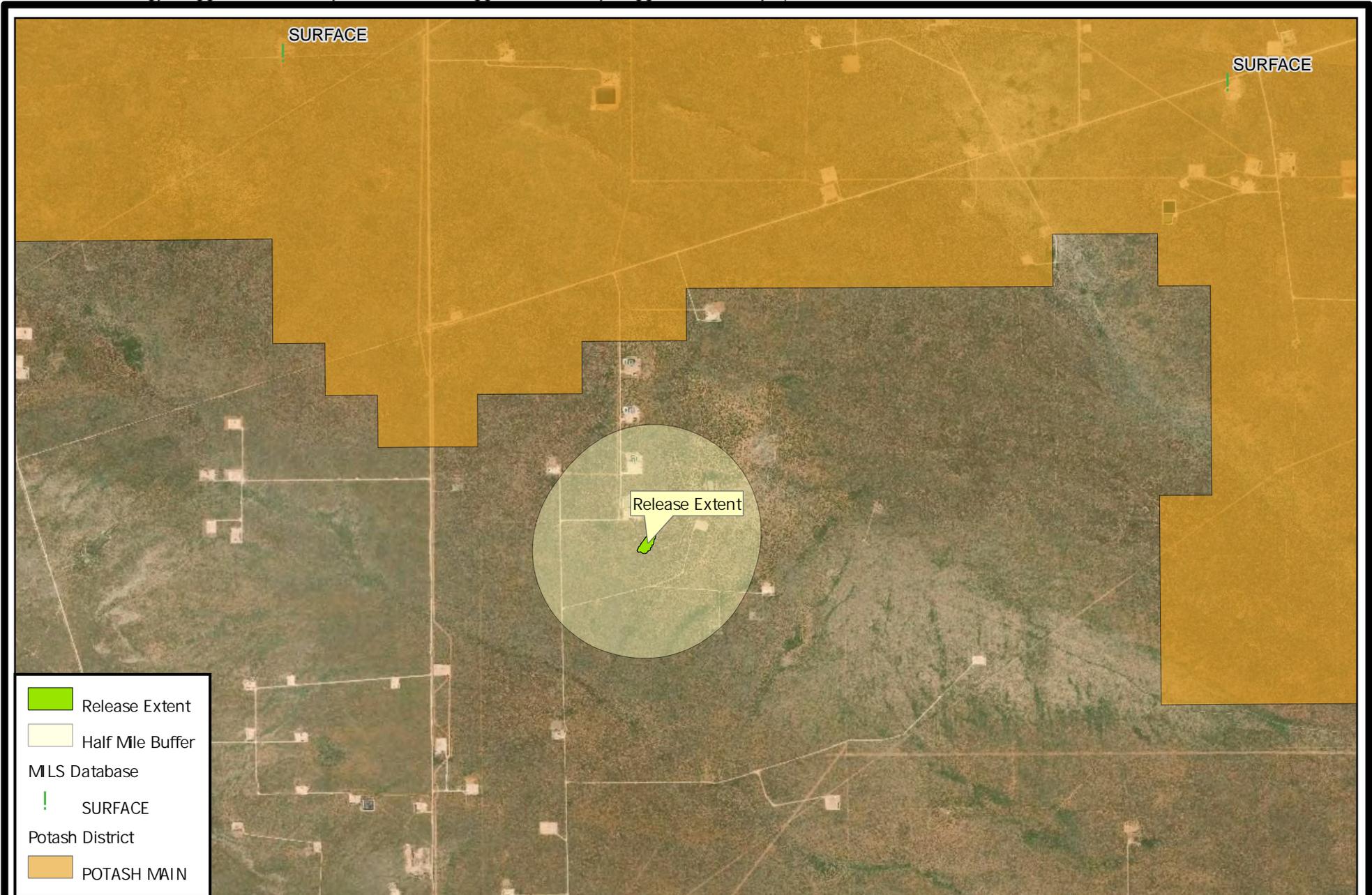


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Wetlands
Advance Energy Hat Mesa LLC
Dagger Lake Battery 10302019

Plate 9
March 12 2020

M:\Advance Energy\Dagger Lake Battery Oct 30 2019\daggerLakeBattery\daggerLakeBattery.aprx



-  Release Extent
-  Half Mile Buffer
- MLS Database
-  SURFACE
- Potash District
-  POTASH MAIN

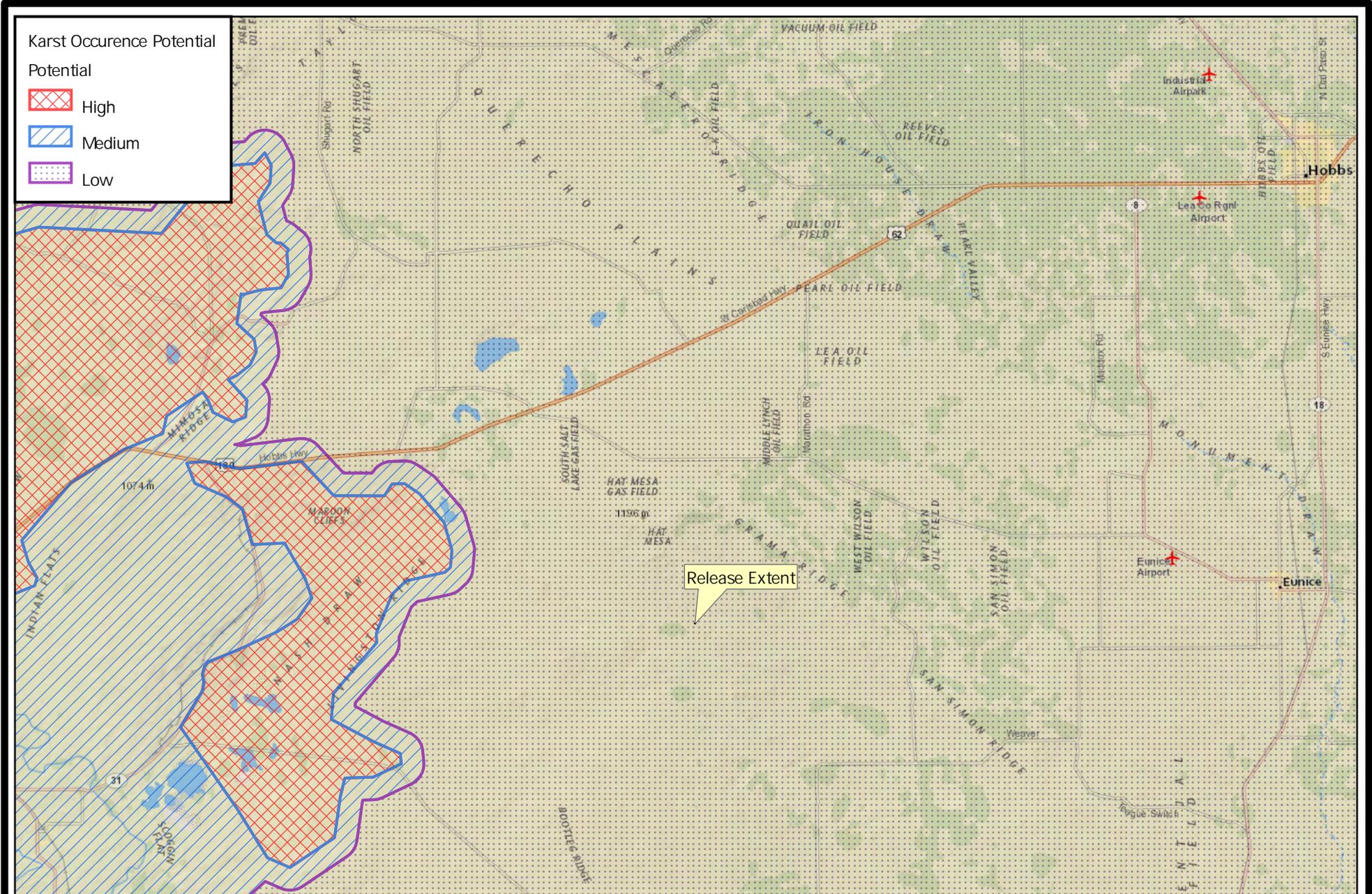


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Mines and Minerals
Advance Energy Hat Mesa LLC
Dagger Lake Battery 10302019

Plate 10
March 12 2020

M:\Advance Energy\Dagger Lake Battery Oct 30 2019\daggerLakeBattery\daggerLakeBattery.aprx



Release Extent

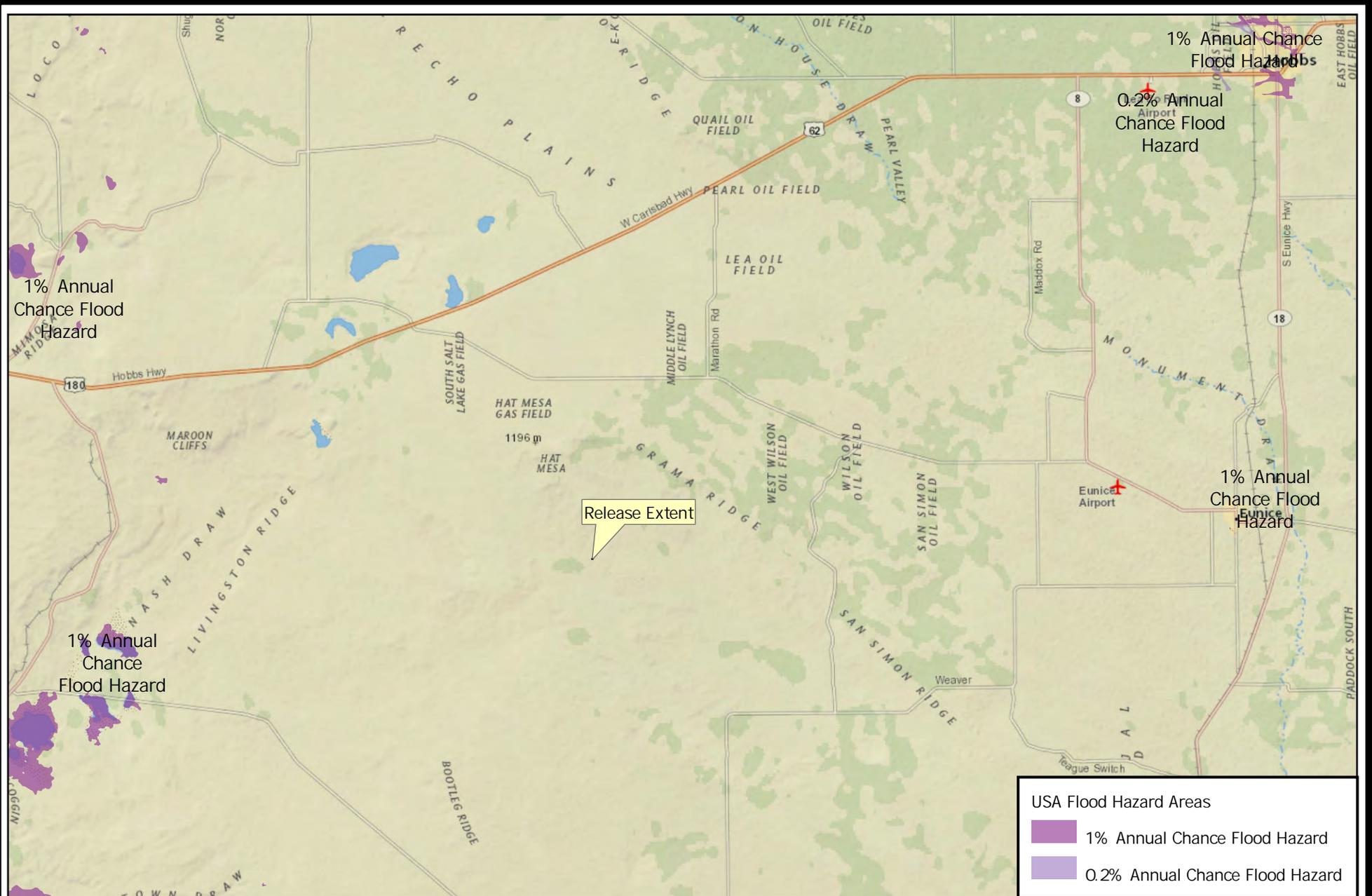


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 Albuquerque, NM 87104
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Karst
 Advance Energy Hat Mesa LLC
 Dagger Lake Battery 10302019

Plate 11
 March 12 2020

M:\Advance Energy\Dagger Lake Battery Oct 30 2019\daggerLakeBattery\daggerLakeBattery.aprx



Release Extent

USA Flood Hazard Areas

- 1% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard



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 901 Rio Grande Blvd NW Suite F-142
 Albuquerque, NM 87104
 Ph: 505.266.5004

Flood Hazard Zones (FEMA)
 Advance Energy Hat Mesa LLC
 Dagger Lake Battery 10302019

Plate 12
 March 12 2020

Tables

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

March 2020

Table 1
Summary of AnalyticalDagger Lake Tank Battery 10302019
Advance Energy Partners Hat Mesa

Sample ID	Date	Sample Type (Comp./Grab)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Limits											
0 - 4 feet & "not in-use"						600	--	2,500	10	50	
> 4 ft or "in-use"						20,000	1,000	2,500	10	50	
S1 Pad	10/30/2019	Grab	0.25			240	<46.8	<56.8	<0.05	<0.3	Hand Auger
S1 Pad	10/30/2019	Grab	0.75			128	<117	<127	<0.05	<0.3	Hand Auger
RS	12/11/2019	Grab	0.00			48	27950	33540	<0.1	25.2	Hand Auger
RS	12/11/2019	Composite		0.0	3.0	<16	<116	<132.6	<0.05	<0.3	Hand Auger
HA-01	3/12/2020	Grab	0.50			16	<20	<30	<0.05	<0.3	Hand Auger
HA-01	3/12/2020	Grab	1.00			32	<20	<30	<0.05	<0.3	Hand Auger
HA-02	3/12/2020	Grab	0.50			32	<83.6	<93.6	<0.05	<0.3	Hand Auger
HA-02	3/12/2020	Grab	1.00			16	<193	<231.8	<0.05	<0.3	Hand Auger
HA-02 +3 Ft East	3/19/2020	Grab	1.00			<16	<67.5	<77.5	<0.05	<0.3	Shovel Trench

March 13, 2020

Table 2
OSE Water Well Log Data Summary

NRM2000354631

Advance Energy Partners Hat Mesa, LLC

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-00601	1952		223	178		
CP 00854	6/22/1996	755	890	600	Artesian	155
CP 01349 POD 1	7/18/2014	990	1188	572	Artesian	418
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

Appendix A

OSE Well Logs

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

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-601 Date received April 17, 1979

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501
80227
19
79 APR 20 PM 3 01

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. 1/4 NE 1/4 NW 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 2231 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

for stock water purposes.

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

Subdivision	Sec.	Twp.	Range	Acres 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 _____ month _____ day _____ year _____ and since that time

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

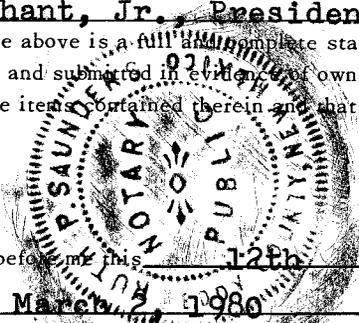
I, J. D. Merchant, Jr., President being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in _____ ownership of a valid underground water right, that I have carefully 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
day of April, A.D. 1979

Subscribed and sworn to before me this 12th

My commission expires March 2, 1980 Notary Public



STATE ENGINEER OFFICE
ROSWEILL, N.M.
79 APR 17 AM 9 01

563298

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

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 2½ 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
CARLSBAD, 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:

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/fh
Encls.
cc: Santa Fe

563298



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



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

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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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	

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	
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				<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:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Coakly Glen H 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		MINUTES	SECONDS	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE	32	26	54.8				
	LONGITUDE		103	33	58.3	W			
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

STATE ENGINEER OFFICE
SOSWELL
NEW MEXICO
2014 AUG - 8 AM 9:53

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1355	POD NUMBER	1	TRN NUMBER	549450
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	
				<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:	
	<p><i>Corky Glenn</i> <u>Corky Glenn</u> <u>8/7/14</u></p> <p>SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE</p>	

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

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 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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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP-1701-POD1		WELL TAG ID NO.		OSE FILE NO(S)		
	WELL OWNER NAME(S) The Jimmy Mills GST and 2005 GST Trusts				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS c/o Stacey Mills PO Box 1359				CITY Loving	STATE NM	ZIP 88256-1358
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 26	SECONDS 0.5	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
LONGITUDE 103 39 10.1 W							
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NO. WD1706	NAME OF LICENSED DRILLER Bryce Wallace			NAME OF WELL DRILLING COMPANY Elite Drillers Corporation			
	DRILLING STARTED 10/15/18	DRILLING ENDED 11/29/18	DEPTH OF COMPLETED WELL (FT) 840	BORE HOLE DEPTH (FT) 880	DEPTH WATER FIRST ENCOUNTERED (FT) 560			
	COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 457			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> 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 (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	12.75	ASTM53 Grade B Steel	N/A	12.57	.188	
	+2	460	12.25	ASTM53 Grade B steel	Welded	6.065	.28	
	460	840	12.25	SDR17 PVC	Spline	6	SDR17	.032

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	20	12.75	Portland I/II Cement	17	Pour
	0	453	12.25	Baroid Benseal Grout	247	Trinnie
	453	860	12.25	8/16 Silica Sand	285	Pour

FOR OSE INTERNAL USE

FILE NO. CP-1701	POD NO. 1	TRN NO. 019305
LOCATION Expi	215.32E.35.31	WELL TAG ID NO. —

PAGE 1 OF 2

Appendix B

Laboratory Certificates of Analysis

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

November 04, 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 10/31/19 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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: DAGGER LAKE BATTERY
Project Manager: ANDREW PARKER
Fax To: NONE

Reported:
04-Nov-19 14:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S1 PAD 0.25'	H903714-01	Soil	30-Oct-19 14:00	31-Oct-19 11:20
S1 PAD 0.75'	H903714-02	Soil	30-Oct-19 14:30	31-Oct-19 11:20

Client changed project name to Dagger Lake Battery on 11/04/19. This is the revised report and will replace the one sent on 11/01/19.

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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
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY
Project Number: DAGGER LAKE BATTERY
Project Manager: ANDREW PARKER
Fax To: NONE

Reported:
04-Nov-19 14:00

S1 PAD 0.25'
H903714-01 (Soil)

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

Chloride	240		16.0	mg/kg	4	9110105	AC	01-Nov-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9103110	MS	31-Oct-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9103110	MS	31-Oct-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9103110	MS	31-Oct-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9103110	MS	31-Oct-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9103110	MS	31-Oct-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %		73.3-129	9103110	MS	31-Oct-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9103113	MS	01-Nov-19	8015B	
DRO >C10-C28*	36.8		10.0	mg/kg	1	9103113	MS	01-Nov-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9103113	MS	01-Nov-19	8015B	

Surrogate: 1-Chlorooctane			94.9 %		41-142	9103113	MS	01-Nov-19	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		37.6-147	9103113	MS	01-Nov-19	8015B	
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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
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY
Project Number: DAGGER LAKE BATTERY
Project Manager: ANDREW PARKER
Fax To: NONE

Reported:
04-Nov-19 14:00

S1 PAD 0.75'
H903714-02 (Soil)

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

Chloride	128		16.0	mg/kg	4	9110105	AC	01-Nov-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9103110	MS	31-Oct-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9103110	MS	31-Oct-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9103110	MS	31-Oct-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9103110	MS	31-Oct-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9103110	MS	31-Oct-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	73.3-129		9103110	MS	31-Oct-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9103113	MS	01-Nov-19	8015B	
DRO >C10-C28*	107		10.0	mg/kg	1	9103113	MS	01-Nov-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9103113	MS	01-Nov-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	41-142		9103113	MS	01-Nov-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %	37.6-147		9103113	MS	01-Nov-19	8015B	
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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 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project: ADVANCE ENERGY Project Number: DAGGER LAKE BATTERY Project Manager: ANDREW PARKER Fax To: NONE	Reported: 04-Nov-19 14:00
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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 9110105 - 1:4 DI Water										
Blank (9110105-BLK1)										
				Prepared & Analyzed: 01-Nov-19						
Chloride	ND	16.0	mg/kg							
LCS (9110105-BS1)										
				Prepared & Analyzed: 01-Nov-19						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9110105-BSD1)										
				Prepared & Analyzed: 01-Nov-19						
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	

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*=Accredited Analyte

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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: DAGGER LAKE BATTERY
Project Manager: ANDREW PARKER
Fax To: NONE

Reported:
04-Nov-19 14:00

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 9103110 - Volatiles**Blank (9103110-BLK1)**

Prepared & Analyzed: 31-Oct-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)	0.0503		mg/kg	0.0500		101	73.3-129			

LCS (9103110-BS1)

Prepared & Analyzed: 31-Oct-19

Benzene	1.92	0.050	mg/kg	2.00		95.8	72.2-131			
Toluene	1.92	0.050	mg/kg	2.00		95.8	71.7-126			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.4	68.9-126			
Total Xylenes	5.81	0.150	mg/kg	6.00		96.8	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.8	73.3-129			

LCS Dup (9103110-BSD1)

Prepared & Analyzed: 31-Oct-19

Benzene	1.84	0.050	mg/kg	2.00		91.9	72.2-131	4.21	6.91	
Toluene	1.84	0.050	mg/kg	2.00		92.2	71.7-126	3.85	7.12	
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.5	68.9-126	3.06	7.88	
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	71.4-125	2.72	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	73.3-129			

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
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY
Project Number: DAGGER LAKE BATTERY
Project Manager: ANDREW PARKER
Fax To: NONE

Reported:
04-Nov-19 14:00

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 9103113 - General Prep - Organics**Blank (9103113-BLK1)**

Prepared: 31-Oct-19 Analyzed: 01-Nov-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							
<i>Surrogate: 1-Chlorooctane</i>	50.0		mg/kg	50.0		100	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	50.1		mg/kg	50.0		100	37.6-147			

LCS (9103113-BS1)

Prepared: 31-Oct-19 Analyzed: 01-Nov-19

GRO C6-C10	228	10.0	mg/kg	200		114	76.5-133			
DRO >C10-C28	226	10.0	mg/kg	200		113	72.9-138			
Total TPH C6-C28	455	10.0	mg/kg	400		114	78-132			
<i>Surrogate: 1-Chlorooctane</i>	56.2		mg/kg	50.0		112	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	56.1		mg/kg	50.0		112	37.6-147			

LCS Dup (9103113-BSD1)

Prepared: 31-Oct-19 Analyzed: 01-Nov-19

GRO C6-C10	212	10.0	mg/kg	200		106	76.5-133	7.39	20.6	
DRO >C10-C28	208	10.0	mg/kg	200		104	72.9-138	8.27	20.6	
Total TPH C6-C28	420	10.0	mg/kg	400		105	78-132	7.82	18	
<i>Surrogate: 1-Chlorooctane</i>	51.8		mg/kg	50.0		104	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	50.7		mg/kg	50.0		101	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

Notes and Definitions

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

Cardinal Laboratories

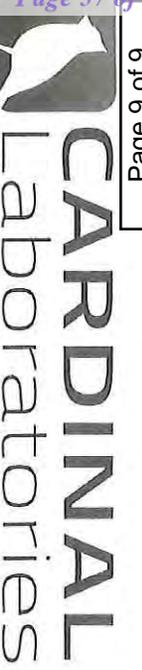
*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

6 of 6 pages



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: K.T. Hicks
 Project Manager: Andrew Parlan
 Address: GN File
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Advance Energy *Dagger Lake Battery
 Project Location: Dagger Lake Battery AOC
 Sampler Name: 5A008 SHEN Z
 P.O. #: _____ Company: R.T. Hicks
 Attn: Send to ABA
 Address: Office
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.			
<u>H903714</u>	<u>SI Pad 0.25 FT</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>	<u>Chloride</u>	
	<u>SI Pad 0.75 FT</u>	<u>V</u>	<u>1</u>			<u>X</u>					<u>X</u>	<u>BTEX, GRO, DRO, MPO</u>	
											<u>X</u>	<u>TDH</u>	

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Relinquished By: _____ Date: 10/31/19 Received By: Jawana Webster
 Relinquished By: _____ Date: _____ Received By: _____
 Delivered By: (Circle One) 3.82 #47 Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: Counted 4.22 Yes No
 CHECKED BY: _____ (Initials) JP
 REMARKS: *Project name changed as per Andrew. 11/11/19
Rush!!
da



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

December 18, 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 12/12/19 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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:	12/12/2019	Sampling Date:	12/11/2019
Reported:	12/18/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE BATTERY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: RS 0' (H904168-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/16/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	0.319	0.100	12/16/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	5.56	0.100	12/16/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	19.3	0.300	12/16/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	25.2	0.600	12/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 307 % 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	12/16/2019	ND	432	108	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*	1250	50.0	12/14/2019	ND	212	106	200	1.12	
DRO >C10-C28*	26700	50.0	12/14/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	5590	50.0	12/14/2019	ND					

Surrogate: 1-Chlorooctane 166 % 41-142

Surrogate: 1-Chlorooctadecane 1060 % 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:	12/12/2019	Sampling Date:	12/11/2019
Reported:	12/18/2019	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE BATTERY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: RS 0-3' (H904168-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	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	12/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2019	ND	212	106	200	1.12	
DRO >C10-C28*	106	10.0	12/14/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	16.6	10.0	12/14/2019	ND					

Surrogate: 1-Chlorooctane 80.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

*=Accredited Analyte

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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

March 17, 2020

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 03/16/20 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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:	03/16/2020	Sampling Date:	03/12/2020
Reported:	03/17/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER BATTERY (10/30/19)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA-01 0.5' (H000813-01)

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	03/16/2020	ND	1.83	91.4	2.00	8.04		
Toluene*	<0.050	0.050	03/16/2020	ND	1.83	91.6	2.00	8.29		
Ethylbenzene*	<0.050	0.050	03/16/2020	ND	1.85	92.7	2.00	8.49		
Total Xylenes*	<0.150	0.150	03/16/2020	ND	5.43	90.5	6.00	8.72		
Total BTEX	<0.300	0.300	03/16/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/17/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2020	ND	199	99.3	200	0.846		
DRO >C10-C28*	<10.0	10.0	03/17/2020	ND	189	94.4	200	4.01		
EXT DRO >C28-C36	<10.0	10.0	03/17/2020	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	03/16/2020	Sampling Date:	03/12/2020
Reported:	03/17/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER BATTERY (10/30/19)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA-01 1' (H000813-02)

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	03/16/2020	ND	1.83	91.4	2.00	8.04		
Toluene*	<0.050	0.050	03/16/2020	ND	1.83	91.6	2.00	8.29		
Ethylbenzene*	<0.050	0.050	03/16/2020	ND	1.85	92.7	2.00	8.49		
Total Xylenes*	<0.150	0.150	03/16/2020	ND	5.43	90.5	6.00	8.72		
Total BTEX	<0.300	0.300	03/16/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/17/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2020	ND	199	99.3	200	0.846		
DRO >C10-C28*	<10.0	10.0	03/17/2020	ND	189	94.4	200	4.01		
EXT DRO >C28-C36	<10.0	10.0	03/17/2020	ND						

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/16/2020	Sampling Date:	03/12/2020
Reported:	03/17/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER BATTERY (10/30/19)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA-02 0.5' (H000813-03)

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	03/16/2020	ND	1.83	91.4	2.00	8.04		
Toluene*	<0.050	0.050	03/16/2020	ND	1.83	91.6	2.00	8.29		
Ethylbenzene*	<0.050	0.050	03/16/2020	ND	1.85	92.7	2.00	8.49		
Total Xylenes*	<0.150	0.150	03/16/2020	ND	5.43	90.5	6.00	8.72		
Total BTEX	<0.300	0.300	03/16/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/17/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2020	ND	199	99.3	200	0.846		
DRO >C10-C28*	73.6	10.0	03/17/2020	ND	189	94.4	200	4.01		
EXT DRO >C28-C36	<10.0	10.0	03/17/2020	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/16/2020	Sampling Date:	03/12/2020
Reported:	03/17/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER BATTERY (10/30/19)	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HA-02 1' (H000813-04)

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	03/16/2020	ND	1.83	91.4	2.00	8.04	
Toluene*	<0.050	0.050	03/16/2020	ND	1.83	91.6	2.00	8.29	
Ethylbenzene*	<0.050	0.050	03/16/2020	ND	1.85	92.7	2.00	8.49	
Total Xylenes*	<0.150	0.150	03/16/2020	ND	5.43	90.5	6.00	8.72	
Total BTEX	<0.300	0.300	03/16/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/17/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2020	ND	199	99.3	200	0.846	
DRO >C10-C28*	183	10.0	03/17/2020	ND	189	94.4	200	4.01	
EXT DRO >C28-C36	38.8	10.0	03/17/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

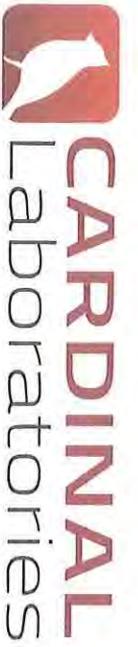
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: R.T. Hicks Consultants Project Manager: Andrew Parker Address: On-File City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <i>Advance Energy</i> Project Location: <i>Dryer Battery 10-30-19</i> Sampler Name: Jacob Saenz		BILL TO P.O. #: <i>Dryer Battery 10-30-19</i> Company: R.T. Hicks Attn: Send to Address: andrew@rthicks.com City: consult.com State: _____ Zip: _____ Phone #: _____ Fax #: _____				
FOR LAB USE ONLY		ANALYSIS REQUEST				
Lab I.D. <i>AD00813</i>	Sample I.D. 1 HA-01 2 HA-01 3 HA-02 4 HA-02	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING	DATE TIME	CHLORIDE TPH (GRO+DRO+MRO) BENZENE, BTEX	Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: _____
Relinquished By: <i>SAENZ</i>		Received By: <i>Jamara Chavez</i>				
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>4.1c #113</i>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>				

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March 20, 2020

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: DAGGER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/19/20 16:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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:	03/19/2020	Sampling Date:	03/19/2020
Reported:	03/20/2020	Sampling Type:	Soil
Project Name:	DAGGER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	10-30-2019	Sample Received By:	Kelly Jacobson
Project Location:	LEA COUNTY, NM		

Sample ID: HA - 02 +3 FT EAST 1 FT (H000860-01)

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	03/20/2020	ND	1.86	92.9	2.00	7.57	
Toluene*	<0.050	0.050	03/20/2020	ND	1.87	93.7	2.00	8.06	
Ethylbenzene*	<0.050	0.050	03/20/2020	ND	1.89	94.6	2.00	8.76	
Total Xylenes*	<0.150	0.150	03/20/2020	ND	5.48	91.3	6.00	8.55	
Total BTEX	<0.300	0.300	03/20/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/20/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2020	ND	202	101	200	2.33	
DRO >C10-C28*	57.5	10.0	03/20/2020	ND	195	97.5	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	03/20/2020	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

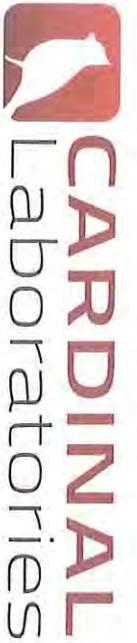
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: R.T. Hicks Consultants Project Manager: Andrew Parker Address: On-File City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: <i>Advance Energy</i> Project Location: <i>Dagger Battery</i> <i>10.30.2019</i> Sampler Name: <i>Jacob Saenz</i>		BILL TO P.O. #: <i>Dagger Battery, 10.30.2019</i> Company: R.T. Hicks Attn: <i>Send to</i> Address: <i>andrew@rthicks</i> City: <i>consult.com</i> State: Zip: Phone #: Fax #: ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D.: <i>1400860</i> Sample I.D.: <i>HA-02 +3ft East</i> <i>1ft</i>		(G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS: <input type="checkbox"/> MATRIX: GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input checked="" type="checkbox"/> OTHER: <input type="checkbox"/> PRESERV: <input type="checkbox"/> SAMPLING: <input type="checkbox"/> DATE: <i>3/19/20</i> TIME: <i>9am</i>	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		CHLORIDE <input checked="" type="checkbox"/> TPH (GRO+DRO+MRO) <input checked="" type="checkbox"/> BENZENE, BTEX <input checked="" type="checkbox"/>	
Relinquished By: <i>SA1008 SAEMZ</i> Date: <i>3-19-20</i> Time: <i>10:21</i>		Received By: <i>[Signature]</i> Date: _____ Time: _____	
Delivered By: (Circle One) <i>342</i> Sampler - UPS - Bus - Other: <i>#113</i>		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> CHECKED BY: <i>[Signature]</i> (Initials) <i>155</i>	
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: <i>RUSH</i>			

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