

Incident ID	nAPP2324032362
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 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.

Oil Conservation Division

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

Printed Name: Connor Walker \_\_\_\_\_ Title: Sr. Engineer \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: 10/13/2023 \_\_\_\_\_

email: cwalker@mewbourne.com \_\_\_\_\_ Telephone: (806)202-5281 \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells \_\_\_\_\_ Date: 10/13/2023 \_\_\_\_\_

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## Closure

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

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

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

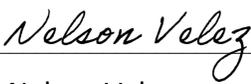
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Connor Walker Title: Sr. Engineer  
 Signature:  Date: 10/13/2023  
 email: cwalker@mewbourne.com Telephone: (806)202-5281

**OCD Only**

Received by: Shelly Wells Date: 10/13/2023

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

Closure Approved by:  Date: 02/02/2024  
 Printed Name: Nelson Velez Title: Environmental Specialist - Adv

**Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.**

# Remediation Summary & Soil Closure Request

**Mewbourne Oil Company**  
**Pronghorn 15 B3DB Fed Com #1H Battery**  
Lea County, New Mexico  
Unit Letter "D", Section 15, Township 23 South, Range 34 East  
Latitude 32.3117380° North, Longitude 103.46513° West  
**NMOCD Reference No. nAPP2324032362**

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
6309 Indiana Ave, Ste. D  
Lubbock, Texas 79413



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Ben J. Arguijo



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Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Pronghorn 15 B3DB Fed Com #1H Battery (henceforth, "Pronghorn Battery"). Details of the release are summarized below:

<b>Location of Release Source</b>				
Latitude: <u>32.311738°</u>		Longitude: <u>-103.465130°</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Pronghorn 15 B3DB Fed Com #1H Battery</u>		Site Type: <u>Tank Battery</u>		
Date Release Discovered: <u>8/16/2023</u>		API # (if applicable): <u>N/A</u>		
Unit Letter	Section	Township	Range	County
"D"	15	23S	34E	Lea
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>Limestone Basin Properties Ranch, LLC</u> )				
<b>Nature and Volume of Release</b>				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>Unknown</u>		Volume Recovered (bbls) <u>660</u>	
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<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		Volume/Weight Recovered	
Cause of Release: A ½" plug on the discharge of a transfer pump failed. The fluid recovered was contained within secondary containment.				
<b>Initial Response</b>				
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

Searches of the NMOCD Imaging System and groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) were conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Pronghorn Battery release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

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

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Pronghorn Battery release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>200'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

## 4.0 REMEDIATION ACTIVITIES SUMMARY

On September 18, 2023, remediation activities commenced at the Pronghorn Battery release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On September 18, 2023, Etech collected 22 confirmation soil samples (NW 1, NW 2, EW 1, SW 1, SW 2, WW 1, WW 2, and FL #1 @ 6 Inches through FL #15 @ 4 Ft) from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory method detection limit (MDL). TPH concentrations were less than the laboratory MDL in a majority of the submitted soil samples, with the exception of soil samples FL #1 @ 6 Inches, FL #2 @ 6 Inches, FL #4 @ 6 Inches, FL #5 @ 6 Inches, and FL #6 @ 6 Inches, which exhibited concentrations ranging from 16.6 mg/kg (FL #6 @ 6 Inches) to 446 mg/kg (FL #5 @ 6 Inches). Chloride concentrations ranged from 32.0 mg/kg in soil sample EW 1 to 4,720 mg/kg in soil sample FL #5 @ 6 Inches.

The final dimensions of the excavated area were approximately 474 feet in length, six (6) to 58 feet in width, and one (1) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 280 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 280 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

## 5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

## 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Pronghorn Battery release site.

## 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

## **8.0 DISTRIBUTION**

***Mewbourne Oil Company***

*4801 Business Park Blvd.*

*Hobbs, NM 88240*

***New Mexico Energy, Minerals and Natural Resources Department***

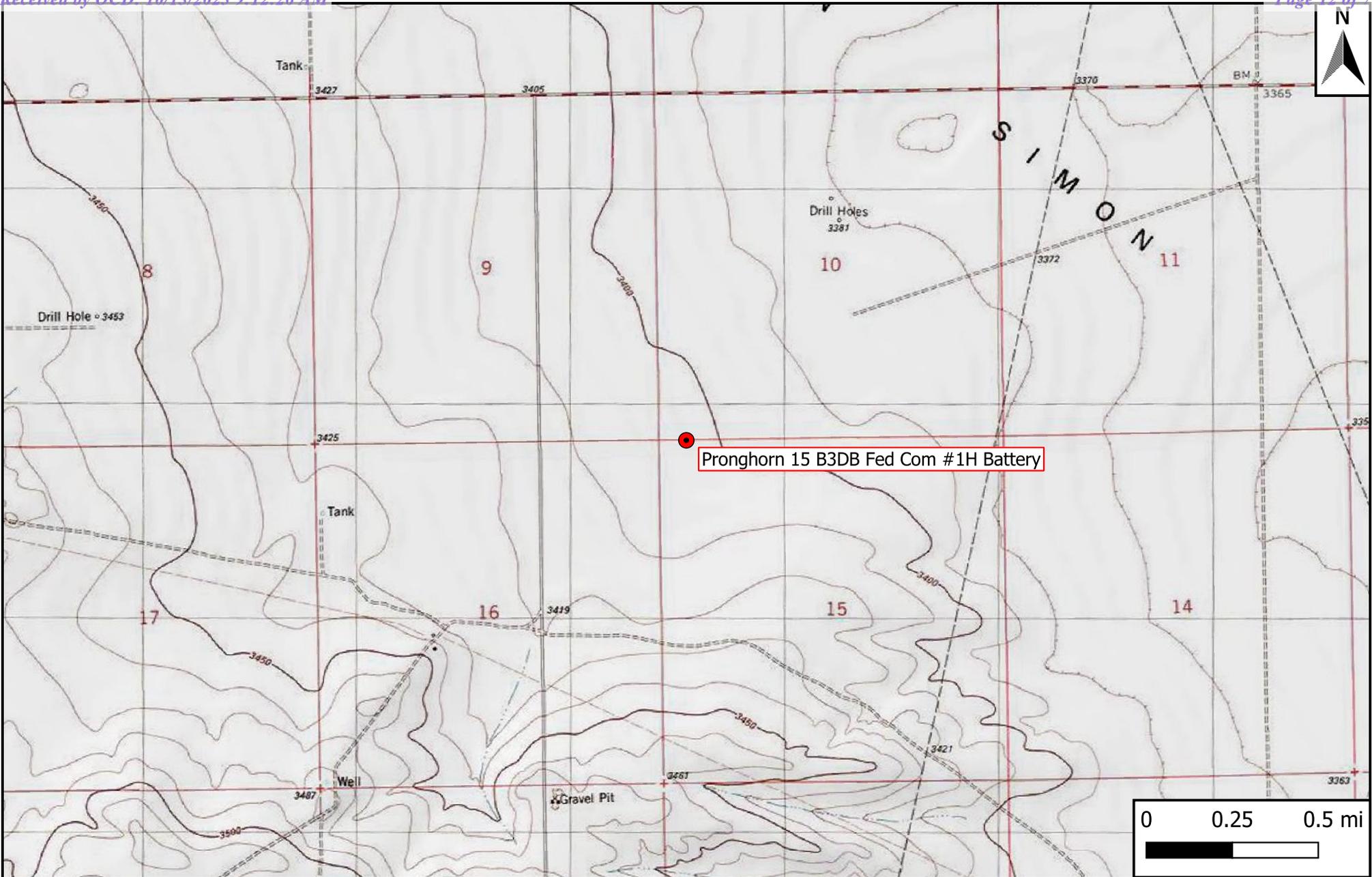
*Oil Conservation Division, District 1*

*1220 South St. Francis Drive*

*Santa Fe, NM 87505*

*(Electronic Submission)*

# **Figure 1 Topographic Map**



Legend  
 ● Site Location

**Figure 1**  
 Topographic Map  
 Mewbourne Oil Company  
 Pronghorn 15 B3DB Fed Com #1H Battery  
 GPS: 32.311738, -103.465130  
 Lea County

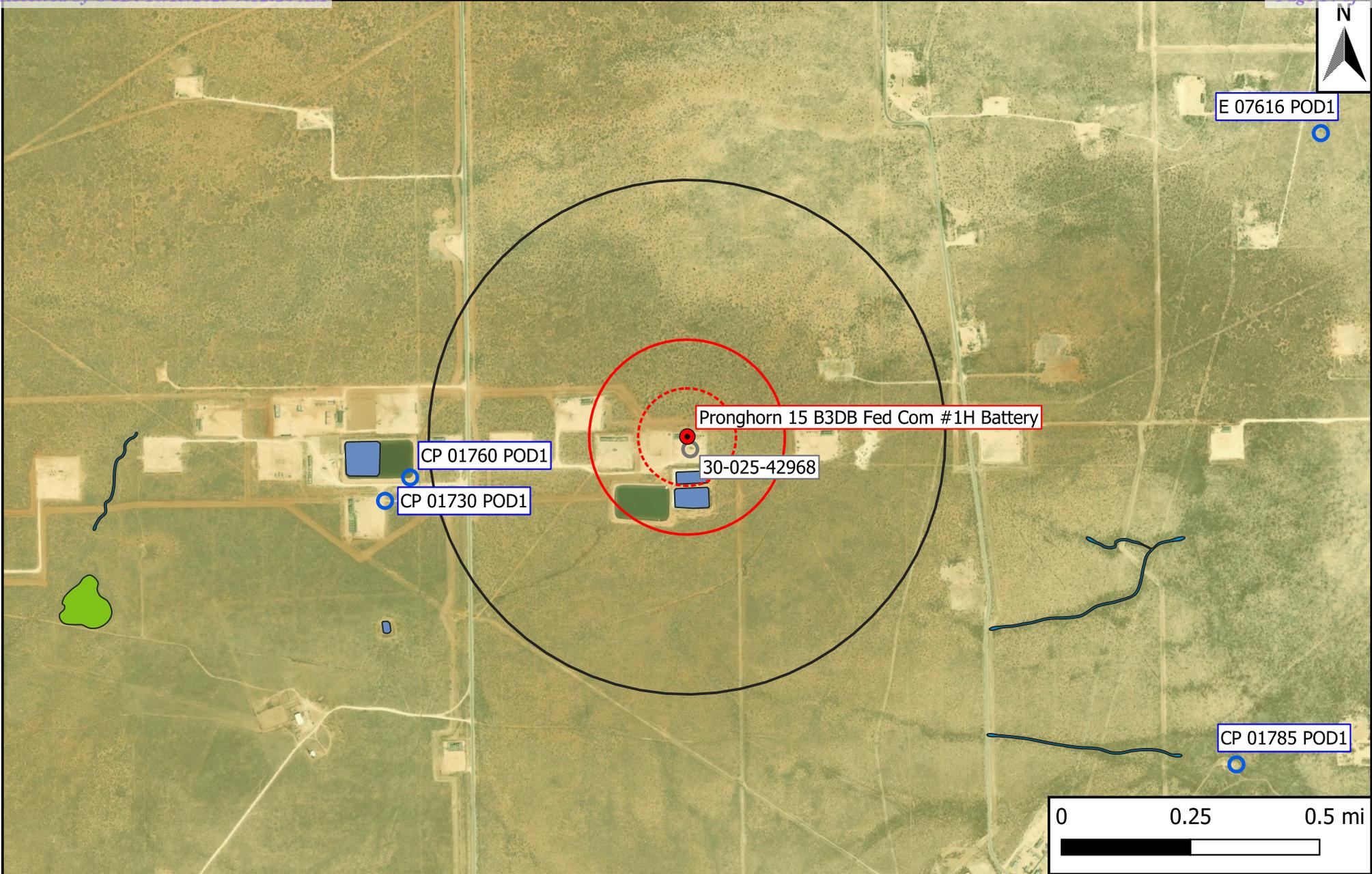


Drafted: bja

Checked: lc

Date: 9/7/23

## Figure 2 Site Characterization Map



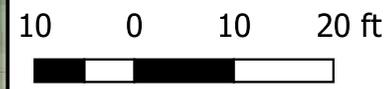
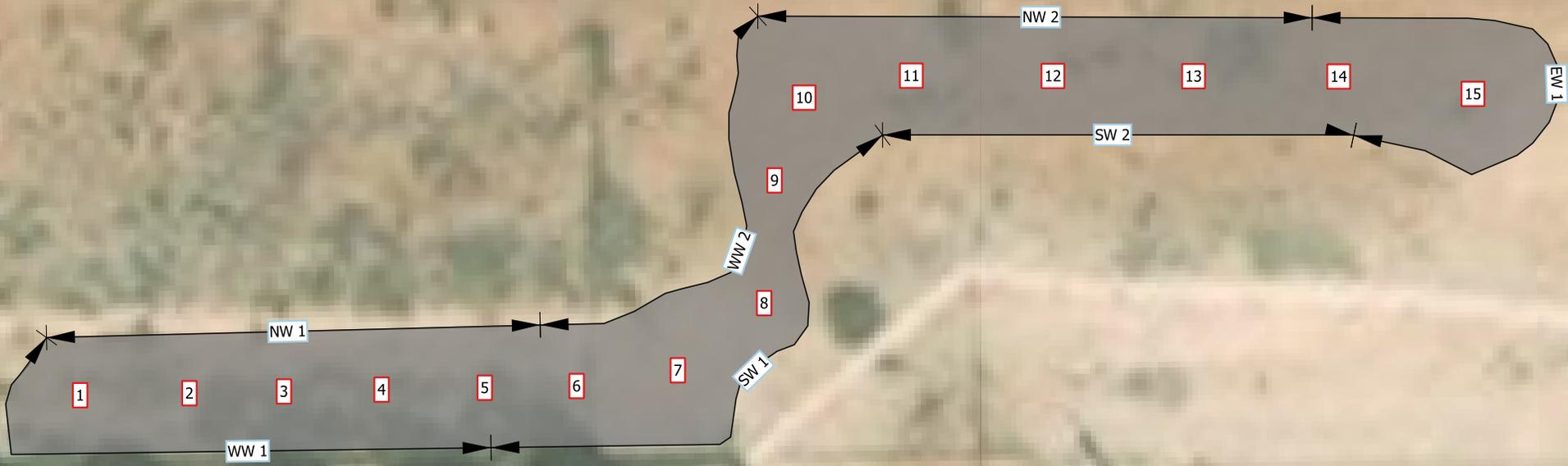
Legend		
Site Location	1% Annual Flood Chance	500-Ft Radius
Well - NMOSE	Emergent/Forested Wetlands	1,000-Ft Radius
Well - USGS	Freshwater Pond/Lake	0.5-Mi Radius
Well - Exploratory/Monitor	Karst Potential (Low/Med./High)	Municipal Boundary
Well - NMOCD	Riverine	Potash Mine Workings

**Figure 2**  
 Site Characterization Map  
 Mewbourne Oil Company  
 Pronghorn 15 B3DB Fed Com #1H Battery  
 GPS: 32.311738, -103.465130  
 Lea County

**eTECH**  
 Environmental & Safety Solutions, Inc.

Drafted: bja      Checked: lc      Date: 10/2/23

## **Figure 3 Site & Sample Location Map**



- Legend**
- Excavation Extent
  - Composite Floor Sample
  - Composite Wall Sample

**Figure 3**  
 Site & Sample Location Map  
 Mewbourne Oil Company  
 Pronghorn 15 B3DB Fed Com #1H Battery  
 GPS: 32.311738, -103.465130  
 Lea County



Drafted: bja      Checked: lc      Date: 10/3/23

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Pronghorn 15 B3DB Fed Com #1H Battery</b> <b>NMOCD Ref. #: nAPP2324032362</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NW 1	9/18/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 2	9/18/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 1	9/18/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1	9/18/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 2	9/18/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 1	9/18/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW 2	9/18/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL #1 @ 6 Inches	9/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	56.3	56.3	16.6	72.9	3,960
FL #2 @ 6 Inches	9/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	37.5	37.5	18.6	56.1	2,400
FL #3 @ 6 Inches	9/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,720
FL #4 @ 6 Inches	9/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	39.4	39.4	14.0	53.9	3,760
FL #5 @ 6 Inches	9/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	304	304	142	446	4,720
FL #6 @ 6 Inches	9/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	16.6	16.6	<10.0	16.6	3,440
FL #7 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,420
FL #8 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
FL #9 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,140
FL #10 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	784
FL #11 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FL #12 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,390
FL #13 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
FL #14 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,070
FL #15 @ 4 Ft	9/18/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,730

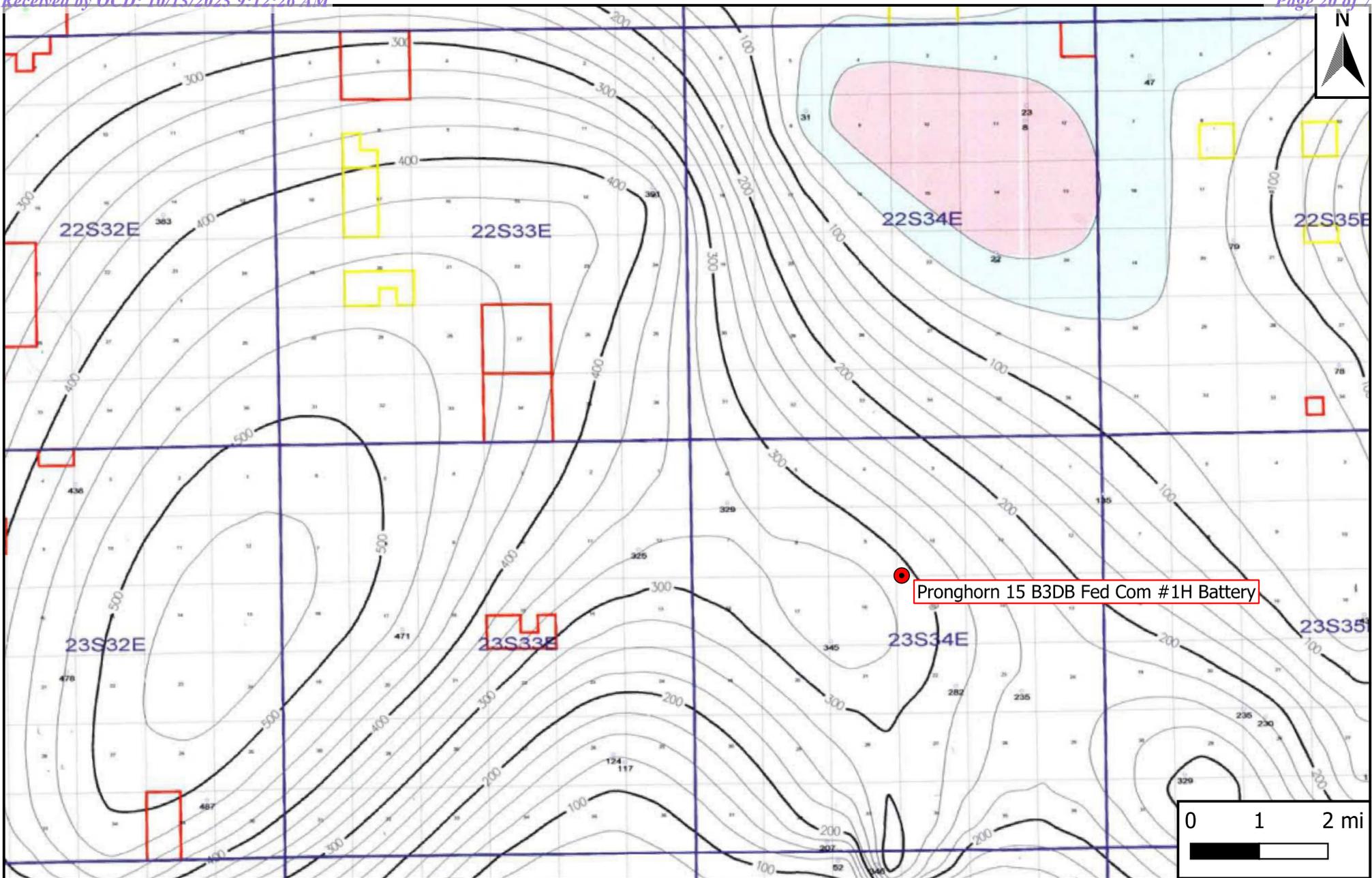
Dash (-): Sample not analyzed for that constituent.

**Bold:** NMOCD Closure Criteria exceedance.

**Red:** NMOCD Reclamation Standard exceedance.

# **Appendix A**

## **Depth to Groundwater Information**



Pronghorn 15 B3DB Fed Com #1H Battery

Legend  
● Site Location

**Figure 4**  
 Inferred Depth to Groundwater Trend Map  
 Mewbourne Oil Company  
 Pronghorn 15 B3DB Fed Com #1H Battery  
 GPS: 32.311738, -103.465130  
 Lea County



Drafted: bja      Checked: lc      Date: 9/7/23



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 01760 POD1</a>		CP	LE	3	1	2	16	23S	34E	643627	3575897	873	767	290	477
<a href="#">CP 01730 POD1</a>		CP	LE	2	2	1	16	23S	34E	643549	3575824	963	594	200	394

Average Depth to Water: **245 feet**  
 Minimum Depth: **200 feet**  
 Maximum Depth: **290 feet**

**Record Count:** 2

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 644491.47      **Northing (Y):** 3576024.99      **Radius:** 1610

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.

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	CP 01730 POD1	2	2	1	16	23S	34E	643549	3575824

<b>Driller License:</b> 1706	<b>Driller Company:</b> ELITE DRILLERS CORPORATION	
<b>Driller Name:</b> WALLACE, BRYCE J.		
<b>Drill Start Date:</b> 10/31/2018	<b>Drill Finish Date:</b> 11/05/2018	<b>Plug Date:</b>
<b>Log File Date:</b> 12/13/2018	<b>PCW Rev Date:</b>	<b>Source:</b> Artesian
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 320 GPM
<b>Casing Size:</b> 7.60	<b>Depth Well:</b> 594 feet	<b>Depth Water:</b> 200 feet

Water Bearing Stratifications:	Top	Bottom	Description
	290	320	Sandstone/Gravel/Conglomerate
	320	350	Sandstone/Gravel/Conglomerate
	350	440	Sandstone/Gravel/Conglomerate
	440	490	Sandstone/Gravel/Conglomerate
	490	530	Sandstone/Gravel/Conglomerate
	530	550	Sandstone/Gravel/Conglomerate
	550	570	Sandstone/Gravel/Conglomerate
	570	580	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	294	594

<b>Meter Number:</b> 20209	<b>Meter Make:</b> SEAMETRICS
<b>Meter Serial Number:</b> 042018001201	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 8	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Barrels 42 gal.	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Monthly

**Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/07/2021	2021	144453	A	ad		0
02/05/2021	2021	144453	A	ad		0
08/02/2021	2021	144453	A	ad		0
09/01/2021	2021	144453	A	ad		0
10/05/2021	2021	144453	A	ad		0
11/04/2021	2021	144453	A	ad		0
12/13/2021	2021	144453	A	ad		0
01/01/2022	2022	144453	A	ad		0
02/08/2022	2022	144453	A	ad		0
03/02/2022	2022	144453	A	ad		0
04/01/2022	2022	144453	A	ad		0
05/06/2022	2022	144453	A	ad		0
06/07/2022	2022	144453	A	ad		0

07/10/2022	2022	144453	A	ad	0
09/05/2022	2022	144453	A	ad	0
10/10/2022	2022	144453	A	ad	0
11/10/2022	2022	144453	A	ad	0
06/07/2023	2023	144453	A	ad	0
07/30/2023	2023	144453	A	ad	0
08/09/2023	2023	144453	A	ad	0

---

<small>x</small>		
<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2021	0
	2022	0
	2023	0

---

x

---

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9/11/23 8:44 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	CP 01760 POD1	3	1	2	16	23S	34E	643627	3575897

<b>Driller License:</b> 1706	<b>Driller Company:</b> ELITE DRILLERS CORPORATION		
<b>Driller Name:</b> WALLACE, BRYCE J.LEE.NER			
<b>Drill Start Date:</b> 02/01/2020	<b>Drill Finish Date:</b> 03/15/2020	<b>Plug Date:</b>	
<b>Log File Date:</b> 04/09/2020	<b>PCW Rev Date:</b>	<b>Source:</b> Artesian	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 80 GPM	
<b>Casing Size:</b> 8.00	<b>Depth Well:</b> 767 feet	<b>Depth Water:</b> 290 feet	

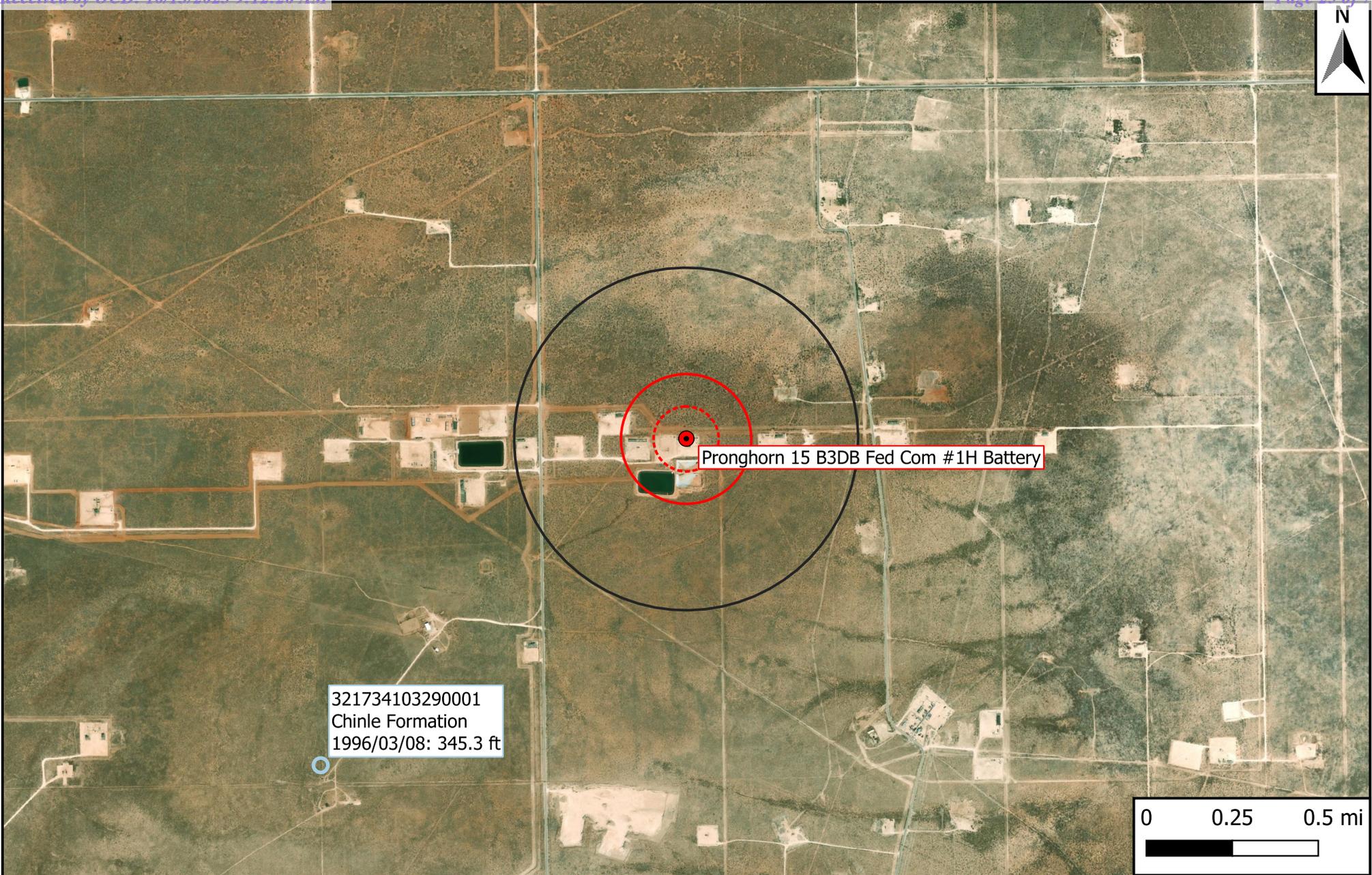
Water Bearing Stratifications:	Top	Bottom	Description
	285	320	Sandstone/Gravel/Conglomerate
	320	350	Shale/Mudstone/Siltstone
	350	445	Sandstone/Gravel/Conglomerate
	445	495	Shale/Mudstone/Siltstone
	495	530	Sandstone/Gravel/Conglomerate
	530	555	Sandstone/Gravel/Conglomerate
	555	570	Sandstone/Gravel/Conglomerate
	570	585	Sandstone/Gravel/Conglomerate
	585	600	Shale/Mudstone/Siltstone
	600	630	Shale/Mudstone/Siltstone
	630	660	Sandstone/Gravel/Conglomerate
	660	710	Sandstone/Gravel/Conglomerate
	710	750	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	567	767

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.

9/11/23 8:44 AM

POINT OF DIVERSION SUMMARY



- Legend
- Site Location
  - Well - USGS
  - 500-Ft Radius
  - 1,000-Ft Radius
  - 0.5-Mi Radius

**Figure 5**  
 USGS Well Proximity Map  
 Mewbourne Oil Company  
 Pronghorn 15 B3DB Fed Com #1H Battery  
 GPS: 32.311738, -103.465130  
 Lea County



Drafted: bja

Checked: lc

Date: 9/7/23



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:  Geographic Area:

[+](#)  
Click for News Bulletins

Groundwater levels for the Nation

**i** Important: [Next Generation Monitoring Location Page](#)

**Search Results -- 1 sites found**

Agency code = usgs  
site\_no list =  
• 321734103290001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

**USGS 321734103290001 23S.34E.16.333312**

Lea County, New Mexico  
Latitude 32°17'53", Longitude 103°28'59" NAD27  
Land-surface elevation 3,478.00 feet above NGVD29  
The depth of the well is 400 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Chinle Formation (231CHNL) local aquifer.

**Output formats**

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1971-01-13		D	72019	344.05			1	Z			A
1976-12-16		D	72019	347.38			1	Z			A
1981-03-30		D	72019	345.40			1	Z			A
1986-03-21		D	72019	347.80			1	Z			A
1996-03-08		D	72019	345.30			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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 [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-10-03 19:03:14 EDT

0.31 0.25 nadww01

Mewbourne Oil Company, Pronghorn 15 B3DM Fed Com 1H

HOBBS OCD

Sec 15, T23S, R34E

SL: 185' FNL & 450' FWL

BHL: 330' FSL & 450' FWL

NOV 30 2015

Extracted from the "Application for Permit to Drill or Reenter" for NMOCD Well 30-025-42968.

**1. Geologic Formations**

RECEIVED

TVD of target	11382'	Pilot hole depth	NA
MD at TD:	15885'	Deepest expected fresh water:	325'

**Basin**

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	1477	Water	
Top of Salt	1614	Salt	
Castile/Base Salt	4679		
Lamar	4950	Oil	
Bell Canyon	5049	Oil	
Cherry Canyon			
Manzanita Marker			
Brushy Canyon			
Bone Spring	8519	Oil/Gas	
1 <sup>st</sup> Bone Spring Sand			
2 <sup>nd</sup> Bone Spring Sand			
3 <sup>rd</sup> Bone Spring Sand	11045	Target Zone	
Abo			
Wolfcamp		Will Not Penetrate	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

## **Appendix B Field Data**



# **Appendix C**

## **Photographic Log**

### Photographic Log

<b>Photo Number:</b> 1	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> South-Southwest	
<b>Photo Description:</b>  View of the affected area.	

### Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the affected area.	

### Photographic Log

<b>Photo Number:</b> 5	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 7	 <p>September 18, 2023 at 7:43 AM +32.311798,-103.464988</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 8	 <p>September 18, 2023 at 7:44 AM +32.311897,-103.464989</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 9	 <p>September 22, 2023 at 10:00 AM +32.311165,-103.466148</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 10	 <p>September 22, 2023 at 10:01 AM +32.311820,-103.464922</p>
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

# **Appendix D**

## **Laboratory Analytical Reports**



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

---

September 21, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PRONGHORN 15 B3DB FED COM #1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/18/23 16:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H B <sup>A</sup>	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 1. @ 6 INCHES (H235044-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.20	110	2.00	8.66	
Toluene*	<0.050	0.050	09/19/2023	ND	2.39	119	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.55	127	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.69	128	6.00	13.1	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	56.3	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	16.6	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 2. @ 6 INCHES (H235044-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2023	ND	2.20	110	2.00	8.66		
Toluene*	<0.050	0.050	09/19/2023	ND	2.39	119	2.00	11.4		
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.55	127	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.69	128	6.00	13.1		
Total BTEX	<0.300	0.300	09/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2400</b>	16.0	09/19/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56		
<b>DRO &gt;C10-C28*</b>	<b>37.5</b>	10.0	09/19/2023	ND	194	97.1	200	3.07		
<b>EXT DRO &gt;C28-C36</b>	<b>18.6</b>	10.0	09/19/2023	ND						

Surrogate: 1-Chlorooctane 63.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.9 % 49.1-148

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 3. @ 6 INCHES (H235044-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.20	110	2.00	8.66	
Toluene*	<0.050	0.050	09/19/2023	ND	2.39	119	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.55	127	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.69	128	6.00	13.1	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 4. @ 6 INCHES (H235044-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.20	110	2.00	8.66	
Toluene*	<0.050	0.050	09/19/2023	ND	2.39	119	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.55	127	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.69	128	6.00	13.1	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	39.4	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	14.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 5. @ 6 INCHES (H235044-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.20	110	2.00	8.66	
Toluene*	<0.050	0.050	09/19/2023	ND	2.39	119	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.55	127	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.69	128	6.00	13.1	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4720</b>	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
<b>DRO &gt;C10-C28*</b>	<b>304</b>	10.0	09/19/2023	ND	194	97.1	200	3.07	
<b>EXT DRO &gt;C28-C36</b>	<b>142</b>	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 6. @ 6 INCHES (H235044-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.20	110	2.00	8.66	
Toluene*	<0.050	0.050	09/19/2023	ND	2.39	119	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.55	127	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.69	128	6.00	13.1	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3440</b>	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
<b>DRO &gt;C10-C28*</b>	<b>16.6</b>	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 7. @ 4 FT (H235044-07)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2023	ND	2.20	110	2.00	8.66		
Toluene*	<0.050	0.050	09/19/2023	ND	2.39	119	2.00	11.4		
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.55	127	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.69	128	6.00	13.1		
Total BTEX	<0.300	0.300	09/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	09/19/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56		
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND						

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 8. @ 4 FT (H235044-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 9. @ 4 FT (H235044-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 10. @ 4 FT (H235044-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 11. @ 4 FT (H235044-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 12. @ 4 FT (H235044-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 13. @ 4 FT (H235044-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	09/19/2023	ND	448	112	400	3.64	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 14. @ 4 FT (H235044-14)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: FL # 15. @ 4 FT (H235044-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: EW 1. (H235044-16)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	191	95.4	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 65.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: NW 1. (H235044-17)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-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	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	194	97.2	200	14.6	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	210	105	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: NW 2. (H235044-18)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-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	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	194	97.2	200	14.6	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	210	105	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: SW 1. (H235044-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	194	97.2	200	14.6	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	210	105	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: SW 2. (H235044-20)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/19/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/19/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/19/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	194	97.2	200	14.6	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	210	105	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: WW 1. (H235044-21)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/20/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	194	97.2	200	14.6	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	210	105	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/18/2023	Sampling Date:	09/18/2023
Reported:	09/21/2023	Sampling Type:	Soil
Project Name:	PRONGHORN 15 B3DB FED COM #1H BA	Sampling Condition:	Cool & Intact
Project Number:	18612	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE UL/D SEC15 T23S - R34E		

**Sample ID: WW 2. (H235044-22)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.38	119	2.00	7.32	
Toluene*	<0.050	0.050	09/20/2023	ND	2.41	121	2.00	7.19	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.58	129	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	7.03	117	6.00	8.01	
Total BTEX	<0.300	0.300	09/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2023	ND	194	97.2	200	14.6	
DRO >C10-C28*	<10.0	10.0	09/19/2023	ND	210	105	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

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

<b>Company Name:</b> Etech Environmental		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>												
<b>Project Manager:</b> Lance Crenshaw		P.O. #:																
<b>Address:</b> 2617 W Marland Blvd		Company: Mewbourne																
<b>City:</b> Hobbs	<b>State:</b> NM	<b>Zip:</b> 88240	Attn: <i>Conner Walker</i>															
<b>Phone #:</b> 575-396-2378	<b>Fax #:</b> 575-396-1429		Address:															
<b>Project #:</b> 18612	<b>Project Owner:</b> Mewbourne Oil Company		City:															
<b>Project Name:</b> Pronghorn 15 B3DB Fed Com #1H Battery			State: Zip:															
<b>Project Location:</b> UL/D Sec 15 T23S - R34E			Phone #:															
<b>Sampler Name:</b> <i>Acorn Hills</i>			Fax #:															
FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX								PRESERV.	SAMPLING		Chloride	TPH	BTEX 8021	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER							SOIL	OIL	SLUDGE				OTHER :
<i>H235044</i>		X		X				X			9-18-23		X	X	X			
1	FL # 1. @ 6 inches																	
2	FL # 2. @ 6 inches																	
3	FL # 3. @ 6 inches																	
4	FL # 4. @ 6 inches																	
5	FL # 5. @ 6 inches																	
6	FL # 6. @ 6 inches																	
7	FL # 7. @ 4 Ft																	
8	FL # 8. @ 4 Ft																	
9	FL # 9. @ 4 Ft																	
10	FL # 10. @ 4 Ft																	

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<b>Relinquished By:</b>	Date: <i>9/18/23</i>	<b>Received By:</b>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>16:30</i>	<i>D. H. [Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
<b>Relinquished By:</b>	Date:	<b>Received By:</b>	<b>REMARKS:</b> Email results to <a href="mailto:PM@etechnv.com">PM@etechnv.com</a>	
<i>Acorn Hills</i>	Time:			
<b>Delivered By: (Circle One)</b>		Sample Condition	CHECKED BY: (Initials)	
<input checked="" type="checkbox"/> Sampler - <input type="checkbox"/> UPS - <input type="checkbox"/> Bus - <input type="checkbox"/> Other:	<i>3.30C</i>	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>[Signature]</i>	
	<i>#1140</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> No <input type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



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

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

<b>Company Name:</b> Etech Environmental		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
<b>Project Manager:</b> Lance Crenshaw		<b>P.O. #:</b>																			
<b>Address:</b> 2617 W Marland Blvd		<b>Company:</b> Mewbourne																			
<b>City:</b> Hobbs	<b>State:</b> NM	<b>Zip:</b> 88240	<b>Attn:</b> <i>Conner Walker</i>																		
<b>Phone #:</b> 575-396-2378	<b>Fax #:</b> 575-396-1429		<b>Address:</b>																		
<b>Project #:</b> 18612	<b>Project Owner:</b> Mewbourne Oil Company		<b>City:</b>																		
<b>Project Name:</b> Pronghorn 15 B3DB Fed Com #1H Battery			<b>State:</b>									<b>Zip:</b>									
<b>Project Location:</b> UL/D Sec 15 T23S - R34E			<b>Phone #:</b>									<b>Fax #:</b>									
<b>Sampler Name:</b> <i>Adon Rios</i>		<b>Fax #:</b>																			
FOR LAB USE ONLY																					
<b>Lab I.D.</b>	<b>Sample I.D.</b>	(GRAB OR C)OMP. # CONTAINERS	MATRIX			PRESERV.	SAMPLING		Chloride	TPH	BTEX 8021										
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
11	FL # 11. @ 4FF	X			X					X		9-18-23		X	X	X					
12	FL # 12. @ 4FF																				
13	FL # 13. @ 4FF																				
14	FL # 14. @ 4FF																				
15	FL # 15. @ 4FF																				
16	EW 1.																				
17	NW 1.																				
18	NW 2.																				
19	SW 1.																				
20	SW 2.																				

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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, reasonable attorneys' fees, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of service is hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Relinquished By:</b>	<b>Date:</b> 9/18/23	<b>Received By:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Phone #:</b>
	<b>Time:</b> 10:38	<i>[Signature]</i>	<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Fax #:</b>
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>	<b>REMARKS:</b> Email results to <a href="mailto:PM@etechnv.com">PM@etechnv.com</a>	
<i>Adon Rios</i>				
<b>Delivered By: (Circle One)</b>	<b>33°C</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b>	
<input checked="" type="checkbox"/> Sampler - UPS - Bus - Other:	<b>#1140</b>	(Cool Intact) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<i>[Signature]</i>	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



# **Appendix E**

## **Regulatory Correspondence**

**From:** [Lance Crenshaw](#)  
**To:** [Ben Arguijo](#)  
**Subject:** Fwd: [EXTERNAL] nAPP232403362 - Mewbourne - Pronghorn 15 B3DB Fed Com #1H Battery - Sampling Notification  
**Date:** Friday, September 15, 2023 10:11:22 AM  
**Attachments:** [image003.png](#)

---

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---

**From:** Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>  
**Sent:** Friday, September 15, 2023 10:10:34 AM  
**To:** Tamarah Kendrick <tamarah@etechenv.com>  
**Cc:** Lance Crenshaw <lance@etechenv.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** RE: [EXTERNAL] nAPP232403362 - Mewbourne - Pronghorn 15 B3DB Fed Com #1H Battery - Sampling Notification

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NAPP2324032362

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,  
Scott

**Scott Rodgers** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113  
505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd>



---

**From:** Tamarah Kendrick <tamarah@etechenv.com>  
**Sent:** Friday, September 15, 2023 8:57 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Lance Crenshaw <lance@etechenv.com>  
**Subject:** [EXTERNAL] nAPP232403362 - Mewbourne - Pronghorn 15 B3DB Fed Com #1H Battery - Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

This email serves as notice Etech intends to conduct confirmation soil sampling for the following reportable release site beginning 09/18/2023.

nAPP232403362 - Pronghorn 15 B3DB Fed Com #1H Battery

If you have any questions or need any additional information, please feel free to contact Lance Crenshaw by phone or email.

Lance Crenshaw  
Etech Environmental  
Phone 575-631-1064  
[lance@etechenv.com](mailto:lance@etechenv.com)

*Tamarah Kendrick*  
**Project Coordinator**  
**Etech - Environmental and Safety Solutions**  
**2617 W. Marland Blvd**  
**Hobbs, NM 88240**



**From:** [Rodgers, Scott, EMNRD](#)  
**To:** [Lance Crenshaw](#); [Tamarah Kendrick](#); [Ben Arguijo](#)  
**Cc:** [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] Re: nAPP232403362 - Mewbourne - Pronghorn 15 B3DB Fed Com #1H Battery - Sampling Notification  
**Date:** Friday, September 15, 2023 10:13:14 AM  
**Attachments:** [image003.png](#)

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NAPP2324032362

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,  
Scott

**Scott Rodgers** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113  
505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/ocd>



---

**From:** Lance Crenshaw <[lance@etechnv.com](mailto:lance@etechnv.com)>  
**Sent:** Friday, September 15, 2023 9:05 AM  
**To:** Tamarah Kendrick <[tamarah@etechnv.com](mailto:tamarah@etechnv.com)>; Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Ben Arguijo <[bena@etechnv.com](mailto:bena@etechnv.com)>  
**Subject:** [EXTERNAL] Re: nAPP232403362 - Mewbourne - Pronghorn 15 B3DB Fed Com #1H Battery - Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

Please note we meant the date to be Sept. 21, not Sept. 18. Thank you

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---

**From:** Tamarah Kendrick <[tamarah@etechnv.com](mailto:tamarah@etechnv.com)>  
**Sent:** Friday, September 15, 2023 9:56:55 AM

**To:** [ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us) <[ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us)>

**Cc:** Lance Crenshaw <[lance@etechnv.com](mailto:lance@etechnv.com)>

**Subject:** nAPP232403362 - Mewbourne - Pronghorn 15 B3DB Fed Com #1H Battery - Sampling Notification

This email serves as notice Etech intends to conduct confirmation soil sampling for the following reportable release site beginning 09/18/2023.

nAPP232403362 - Pronghorn 15 B3DB Fed Com #1H Battery

If you have any questions or need any additional information, please feel free to contact Lance Crenshaw by phone or email.

Lance Crenshaw  
Etech Environmental  
Phone 575-631-1064  
[lance@etechnv.com](mailto:lance@etechnv.com)

*Tamarah Kendrick*

**Project Coordinator**

**Etech - Environmental and Safety Solutions**

**2617 W. Marland Blvd**

**Hobbs, NM 88240**



**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 275345

**CONDITIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 275345
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	2/2/2024