

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

Incident ID	nAPP2324032362
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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


Ben J. Arguijo
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:

Location of Release Source

Latitude: 32.311738° Longitude: -103.465130°

Provided GPS are in WGS84 format.

Site Name: Pronghorn 15 B3DB Fed Com #1H Battery	Site Type: Tank Battery
Date Release Discovered: 8/16/2023	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"D"	15	23S	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Limestone Basin Properties Ranch, LLC)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) 660
	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.

Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ 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?	<u>>200'</u>	
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
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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

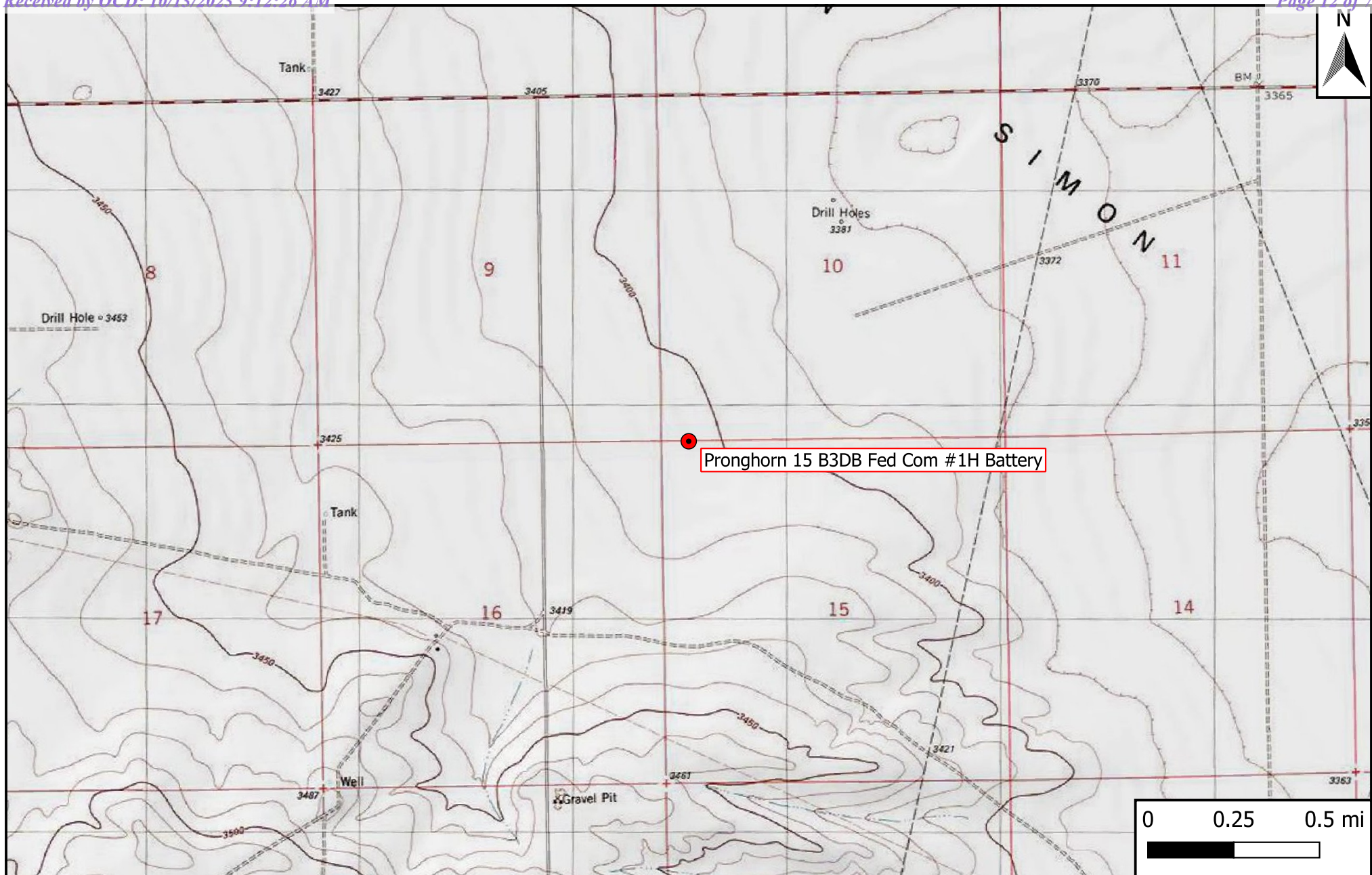
1220 South St. Francis Drive

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



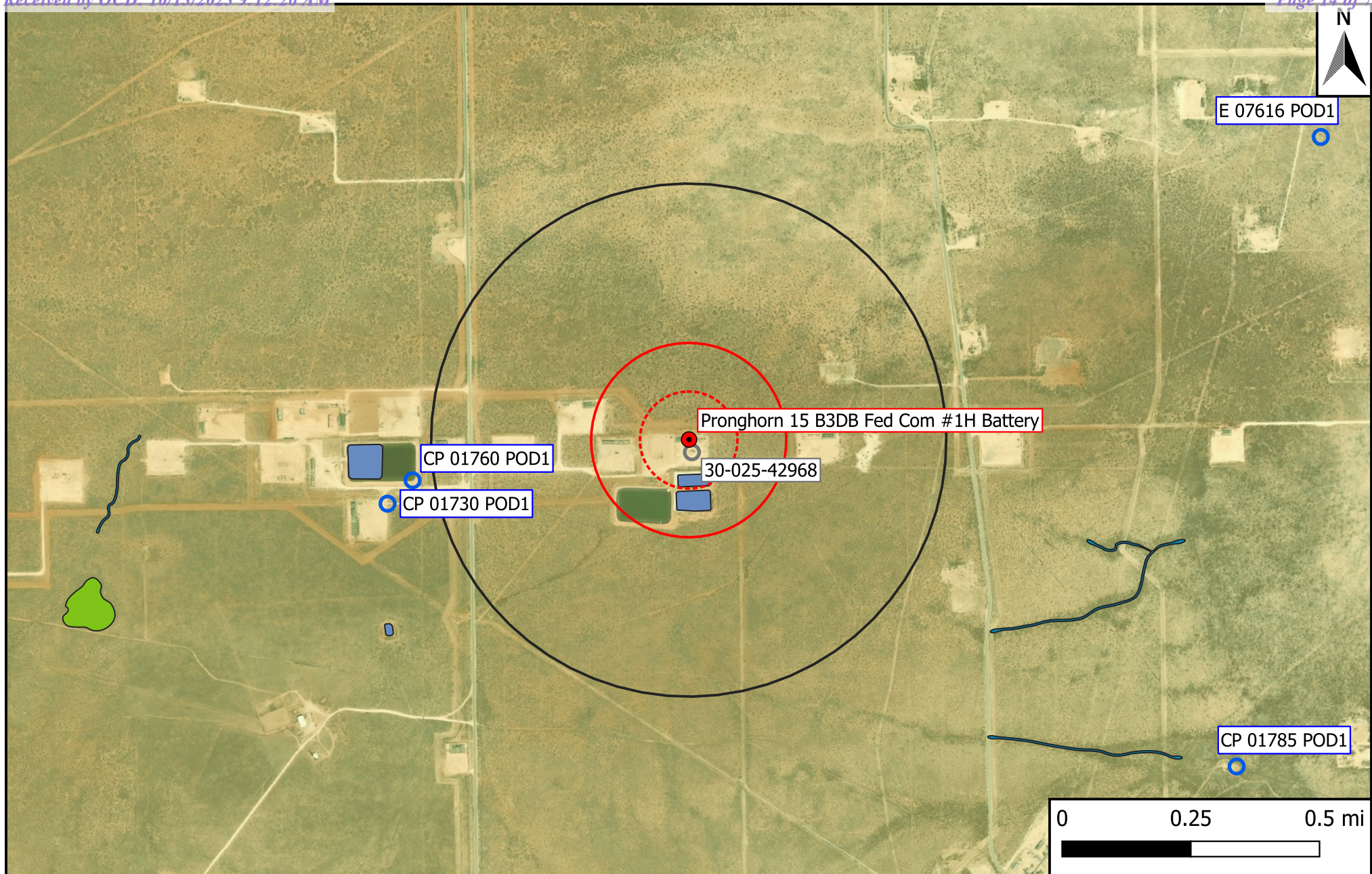
Drafted: bja

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



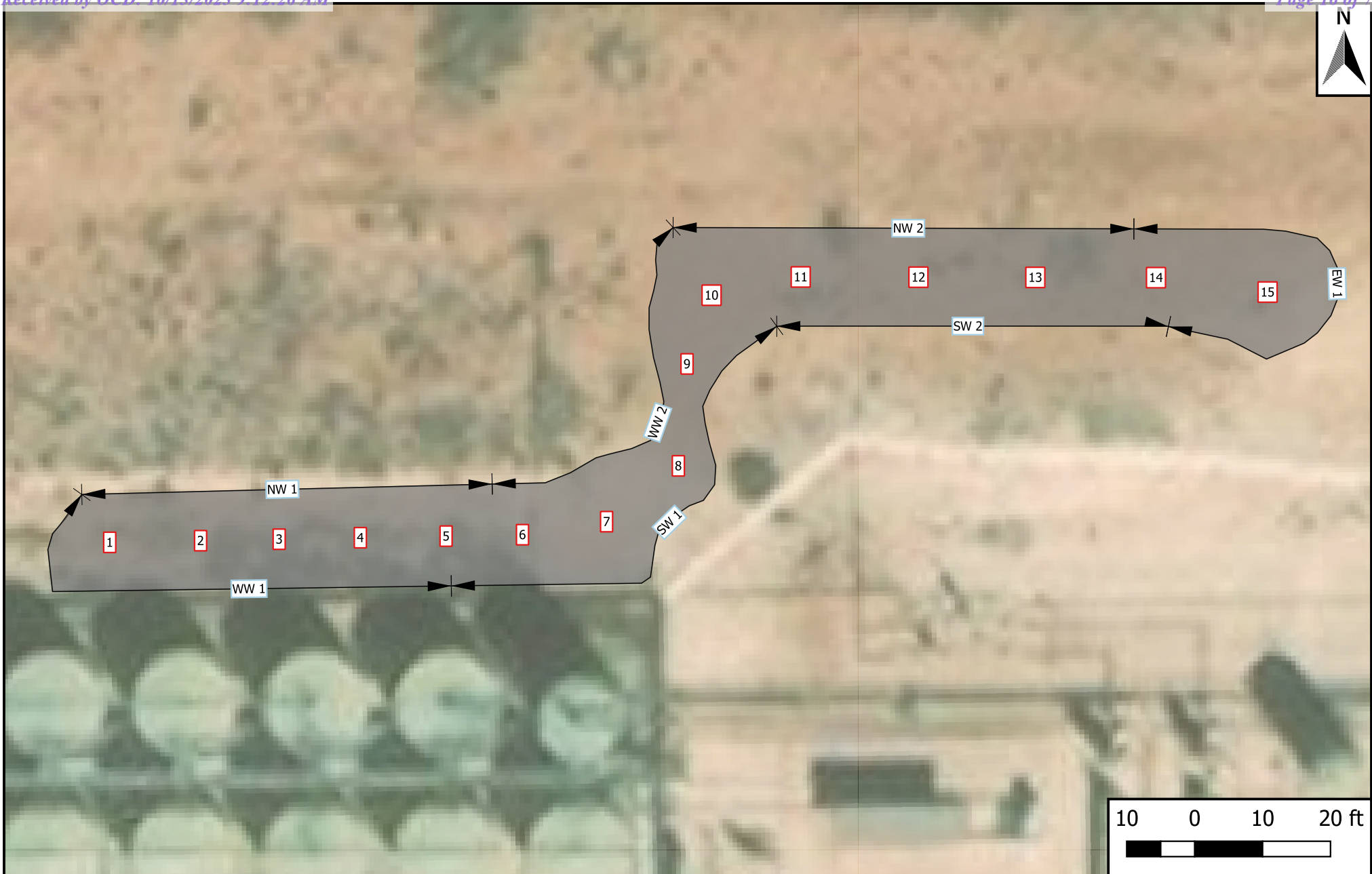
Drafted: bja

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

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Pronghorn 15 B3DB Fed Com #1H Battery NMOCD Ref. #: nAPP2324032362											
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (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

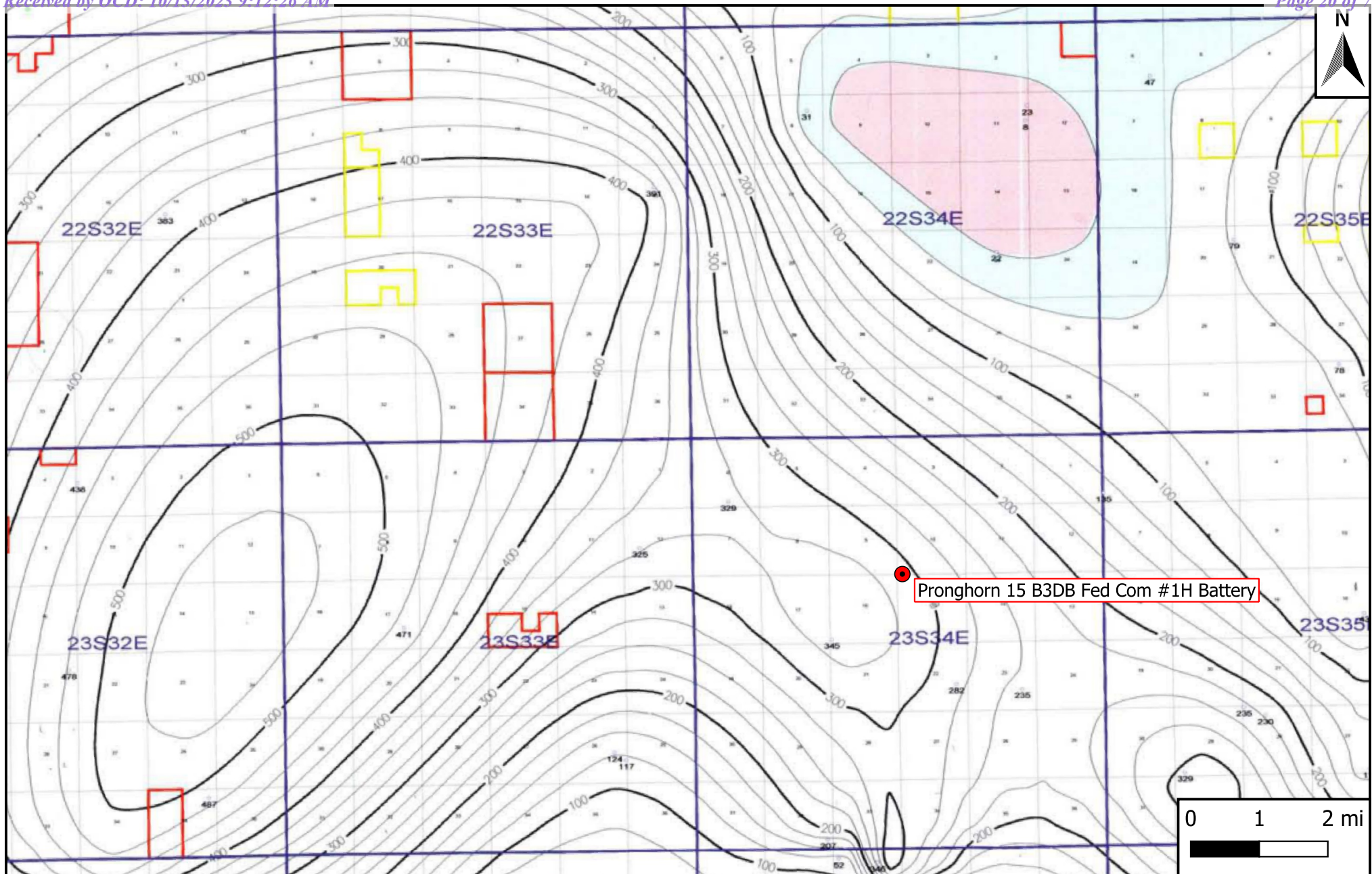
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



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	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01760 POD1		CP	LE	3	1	2	16	23S	34E	643627	3575897	873	767	290	477
CP 01730 POD1		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)

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

Driller License: 1706 **Driller Company:** ELITE DRILLERS CORPORATION

Driller Name: WALLACE, BRYCE J.

Drill Start Date: 10/31/2018	Drill Finish Date: 11/05/2018	Plug Date:
Log File Date: 12/13/2018	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 320 GPM
Casing Size: 7.60	Depth Well: 594 feet	Depth Water: 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

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

**YTD Meter Amounts:			Year	Amount
			2021	0
			2022	0
			2023	0

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



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		
NA	CP 01760 POD1	3	1	2	16	23S	34E	643627	3575897		
<hr/>											
Driller License:	1706	Driller Company:				ELITE DRILLERS CORPORATION					
Driller Name:	WALLACE, BRYCE J.LEE.NER										
Drill Start Date:	02/01/2020	Drill Finish Date:				03/15/2020		Plug Date:			
Log File Date:	04/09/2020	PCW Rev Date:						Source:		Artesian	
Pump Type:		Pipe Discharge Size:						Estimated Yield:		80 GPM	
Casing Size:	8.00	Depth Well:				767 feet		Depth Water:		290 feet	

X

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

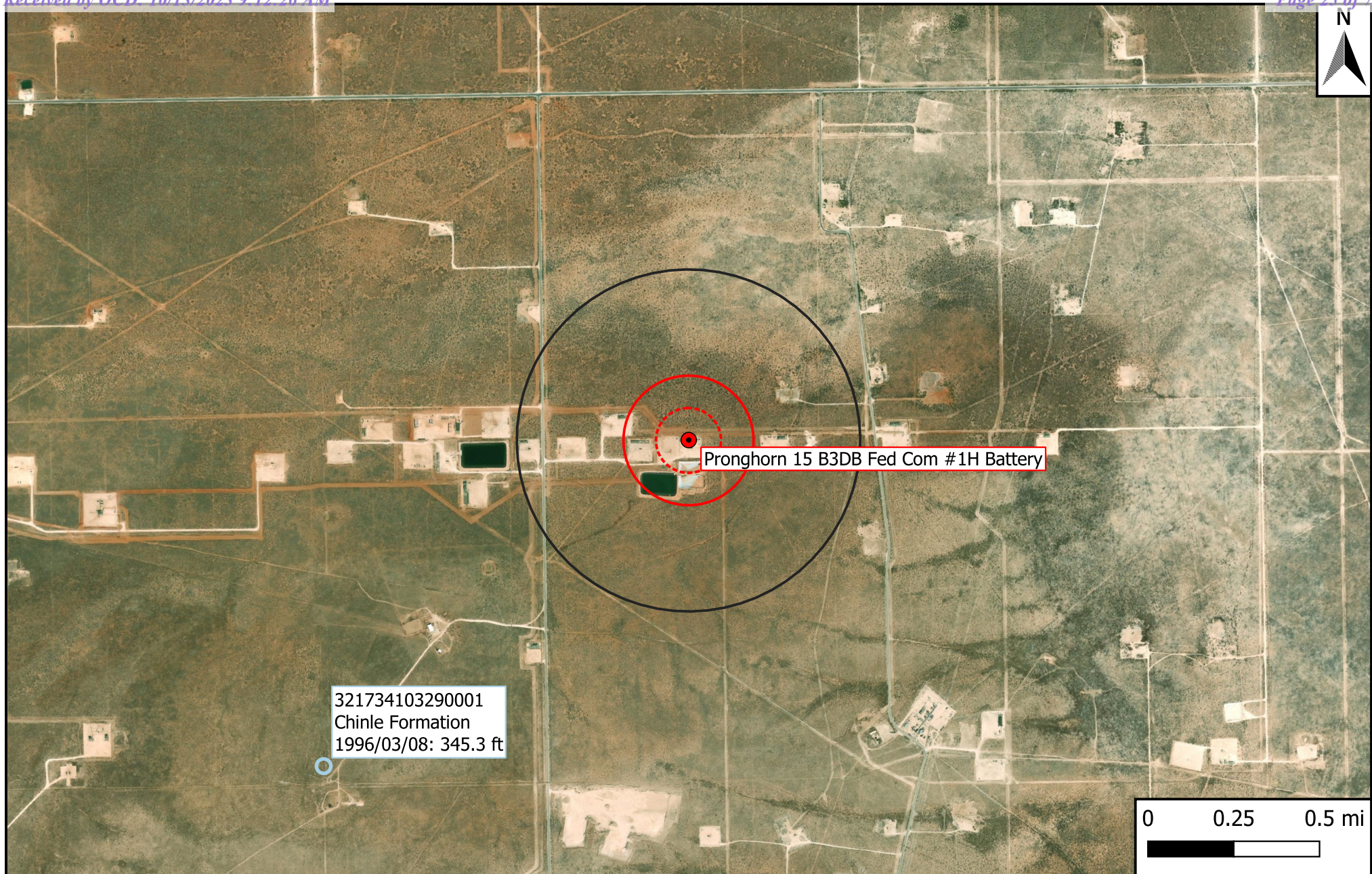
X

Casing Perforations:			Top	Bottom
			567	767

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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:

Groundwater

Geographic Area:

United States

GO



Click for News Bulletins

Groundwater levels for the Nation



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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Mewbourne Oil Company, Pronghorn 15 B3DM Fed Com 1H

HOBBS OCD

Sec 15, T23S, R34E

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

SL: 185' FNL & 450' FWL

NOV 30 2015

BHL: 330' FSL & 450' FWL

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 st Bone Spring Sand			
2 nd Bone Spring Sand			
3 rd 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



Sample Log

Date: _____

Project: Pronghorn 15 B3DB Fed Com #1H Battery

Project Number: 18612 Latitude: 32.311723 Longitude: -103.465141

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = 5P #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

5stockpile = 5stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: East	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: South-Southwest	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 3	
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: East	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	 <p>September 18, 2023 at 7:43 AM +32.311771,-103.464851</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>September 18, 2023 at 1:27 PM +32.312130,-103.464673</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 7	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log

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

Photo Number: 10	 <p>September 22, 2023 at 10:01 AM +32.311820,-103.464922</p>
Photo Direction: West-Southwest	
Photo Description: 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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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 ^A	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, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	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*	37.5	10.0	09/19/2023	ND	194	97.1	200	3.07		
EXT DRO >C28-C36	18.6	10.0	09/19/2023	ND						

Surrogate: 1-Chlorooctane 63.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.9 % 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 # 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

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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 # 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, SM4500Cl-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



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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 # 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	
Chloride	4720	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*	304	10.0	09/19/2023	ND	194	97.1	200	3.07	
EXT DRO >C28-C36	142	10.0	09/19/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 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 # 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, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	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*	16.6	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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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)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2023	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 BTX	<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, SM4500Cl-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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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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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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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, SM4500Cl-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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Analytical Results For:

Etech Environmental & Safety Solutions
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 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, SM4500Cl-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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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



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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: EW 1. (H235044-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2023	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 BTX	<0.300	0.300	09/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	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



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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: 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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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



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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: SW 1. (H235044-19)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2023	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 BTX	<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



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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: SW 2. (H235044-20)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2023	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 BTX	<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

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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: 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, SM4500Cl-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

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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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	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 BTX	<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

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Celey D. Keene, Lab Director/Quality Manager



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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

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

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

Page 25 of 27

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST																	
Project Manager: Lance Crenshaw				P.O. #:																					
Address: 2617 W Marland Blvd				Company: Mewbourne																					
City: Hobbs		State: NM		Zip: 88240		Attn: <i>Conner Walker</i>																			
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:																					
Project #: 18612		Project Owner: Mewbourne Oil Company		City:																					
Project Name: Pronghorn 15 B3DB Fed Com #1H Battery				State:				Zip:																	
Project Location: UL/ D Sec 15 T23S - R34E				Phone #:																					
Sampler Name: <i>Acorn-Ries</i>				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		ACID/BASE: ICE / COOL OTHER :		DATE TIME		Chloride		TPH		BTEX 8021							
1		FL # 1. @ 6 inches		X				X		X		9-18-23		X		X		X							
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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Relinquished By:		Date: 9/18/23		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 16:38		<i>D. H. Jones</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email results to PM@etechenv.com			
		Time:							
Delivered By: (Circle One)		3.30C		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:		#1140		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials)			

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]

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FORM-006 R 2.0






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[illegible]

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Relinquished By:  Relinquished By:		Date: 9/16/23 Time: 14:38 Received By:  Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Email results to PM@etechenv.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 3.30C #140		CHECKED BY: (Initials) 	

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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](#)

Get [Outlook for iOS](#)

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

You don't often get email from scott.rodgers@emnrd.nm.gov. [Learn why this is important](#)

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
<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

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
<http://www.emnrd.nm.gov/oed>



From: Lance Crenshaw <lance@etechenv.com>
Sent: Friday, September 15, 2023 9:05 AM
To: Tamarah Kendrick <tamarah@etechenv.com>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Ben Arguijo <bena@etechenv.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@etechenv.com>
Sent: Friday, September 15, 2023 9:56:55 AM

To: ocd.enviro@state.nm.us <ocd.enviro@state.nm.us>

Cc: Lance Crenshaw <lance@etechenvironment.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@etechenvironment.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