



**Pima Environmental Services**  
**5614 N. Lovington Highway**  
**Hobbs, NM 88240**  
**575-964-7740**

June 22, 2022

NMOCD District 2  
 811 S. First Street  
 Artesia, NM 88210

**Re: Site Assessment, Remediation, and Closure Report (Revised)**  
**Boyd X State #010 Battery**  
**API No. 30-015-28541**  
**GPS: Latitude 32.65550 Longitude -104.48760**  
**UL- O, Sec. 16, T19S, R25E**  
**Eddy County, NM**  
**NMOCD Ref. No. NCS2002754182**

Pima Environmental Services, LLC (Pima) has been contracted by Spur Energy Partners, LLC. (Spur) to perform a spill assessment, remediation, and submit this closure report for a produced water release that occurred at the Boyd X State #010 Battery (Boyd). The initial C-141 was submitted on November 21, 2019 (Appendix C). This incident was assigned Incident ID NCS2002754182, by the New Mexico Oil Conservation Division (NMOCD).

**Site Characterization**

The Boyd is located approximately thirteen (13) miles southwest of Artesia, NM. This spill site is in Unit O, Section 16, Township 19S, Range 25E, Latitude 32.65550, Longitude -104.48760, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation – Piedmont alluvial deposits (Holocene to lower Pleistocene). Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits. The soil in this area is made up of Reagan-Upton association, 0 to 9 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well drained. There is a medium potential for karst geology to be present around the Boyd (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 95 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is less than 50 feet BGS. According to Atkins Engineering Associates Inc., the nearest groundwater is 61.2 feet BGS. The closest waterway is Brantley Lake located approximately 6.94 miles to the southeast of this location. See Appendix A for referenced water surveys.

| Table 1 NMAC and Closure Criteria 19.15.29 |                      |             |             |          |          |
|--|----------------------|-------------|-------------|----------|----------|
| Depth to Groundwater (Appendix A)          | Constituent & Limits |             |             |          |          |
|  | Chlorides            | Total TPH   | GRO+DRO     | BTEX     | Benzene  |
| <50'                                       | 600 mg/kg            | 100 mg/kg   |             | 50 mg/kg | 10 mg/kg |
| 51-100'                                    | 10,000 mg/kg         | 2,500 mg/kg | 1,000 mg/kg | 50 mg/kg | 10 mg/kg |
| >100'                                      | 20,000 mg/kg         | 2,500 mg/kg | 1,000 mg/kg | 50 mg/kg | 10 mg/kg |

Reference Figure 2 for a Topographic Map.

**Release Information**

**NCS2002754182:** On November 11, 2019, a valve failure occurred on a produced water transfer line causing the release. The total volume of fluid released was calculated to be approximately 15 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 12 bbls of standing fluid.

**Site Assessment and Soil Sampling Results**

On November 11, 2019, EOG Resources mobilized personnel to the site to assess the area and begin remedial activities. They removed all contaminated soils from the spill area. These contaminated soils were hauled to an approved NMOCD facility for disposal. More details of this remediation can be found in Appendix F, which is the previously rejected NMOCD closure report.

On November 18, December 3, and December 11, 2019, EOG Resources returned to the site to collect samples for vertical and horizontal delineation. The results of this sampling event can also be found in Appendix F.

On July 22, 2021, Pima Environmental mobilized personnel to the site to re-assess the excavated area. The results of this sampling event can be found in the following table. A Site map can be found in Figure 4.

**7-22-21 Soil Sample Results**

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51'-100') |             |                                |               |           |           |           |                 |          |
|---|-------------|--------------------------------|---------------|-----------|-----------|-----------|-----------------|----------|
| Spur Energy - Boyd X State #10 Battery  |             |                                |               |           |           |           |                 |          |
| Sample Date 7/22/2021   |             | NM Approved Laboratory Results |               |           |           |           |                 |          |
| Sample ID   | Depth (BGS) | BTEX mg/kg                     | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg |
| N. Comp Wall  | 1'          |                                |               |           |           |           | 0               | 496      |
| E. Comp Wall  | 1'          |                                |               |           |           |           | 0               | 14100    |
| S. Comp Wall  | 1'          |                                |               |           |           |           | 0               | 224      |
| W. Comp Wall  | 1'          |                                |               |           |           |           | 0               | 256      |
| CS-1 Surface  | 0-6"        |                                |               |           |           |           | 0               | 6660     |
| CS-1 1.5'   | 1.5"        |                                |               |           |           |           | 0               | 6000     |
| CS-2 Surface  | 0-6"        |                                |               |           |           |           | 0               | 2600     |
| CS-2 1.5'   | 1.5'        |                                |               |           |           |           | 0               | 4660     |
| CS-3 Surface  | 0-6"        |                                |               |           |           |           | 0               | 512      |
| CS-4 Surface  | 0-6"        |                                |               |           |           |           | 0               | 672      |

ND- Analyte Not Detected

**Remediation Activities**

On August 30, 2021, Pima returned to the site to treat the impacted area around E. Comp Wall with a bioremediation chemical solution. All other sample points were already below closure criteria according to Table 1 of 19.15.29.12 NMAC. Upon lab confirmation, Pima will return to backfill with clean material, then pack and recontour to match the area to its surroundings.

On September 2, 2021, after sending out a 48-hour notification (Appendix C), Pima returned to the site to collect confirmation samples of the treated area. A 5-point composite was taken from the E. Comp Wall. The laboratory results of this sampling even can be found in the following table.

**9-2-21 Confirmation Soil Sample Results**

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51'-100') |             |                                |               |           |           |           |                 |          |
|---|-------------|--------------------------------|---------------|-----------|-----------|-----------|-----------------|----------|
| Spur Energy - Boyd X State #10 Battery  |             |                                |               |           |           |           |                 |          |
| Sample Date 9/2/2021  |             | NM Approved Laboratory Results |               |           |           |           |                 |          |
| Sample ID   | Depth (BGS) | BTEX mg/kg                     | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg |
| E. Comp Wall  | 1'          | --                             | --            | --        | --        | --        | 0               | ND       |

ND – Analyte Not Detected

On June 12, 2022, Pima returned to the site due to an OCD rejection to conduct further remedial activities. We excavated the E. Comp Wall area to a depth of 4', then collected confirmation samples from the area and beyond to verify all soil was under the regulatory limits. The contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in. A Confirmation Sample Map can be found in Figure 5.

## 6-12-22 Confirmation Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51'-100') |             |                                |               |           |           |           |                 |          |
|---|-------------|--------------------------------|---------------|-----------|-----------|-----------|-----------------|----------|
| Spur Energy - Boyd X State #10 Battery  |             |                                |               |           |           |           |                 |          |
| Sample Date: 6/12/2022  |             | NM Approved Laboratory Results |               |           |           |           |                 |          |
| Sample ID   | Depth (BGS) | BTEX mg/kg                     | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg |
| ESW1  | 1'          | ND                             | ND            | ND        | 27.1      | 53.7      | 80.8            | 1410     |
|   | 3'          | ND                             | ND            | ND        | ND        | ND        | 0               | 1510     |
|   | 5'          | ND                             | ND            | ND        | 25.9      | 50        | 75.9            | 1510     |
| ESW2  | 1'          | ND                             | ND            | ND        | ND        | ND        | 0               | ND       |
|   | 3'          | ND                             | ND            | ND        | ND        | ND        | 0               | 1530     |
|   | 5'          | ND                             | ND            | ND        | ND        | ND        | 0               | 1510     |
| ESW3  | 1'          | ND                             | ND            | ND        | ND        | ND        | 0               | ND       |
|   | 3'          | ND                             | ND            | ND        | ND        | ND        | 0               | 54.6     |
|   | 5'          | ND                             | ND            | ND        | ND        | ND        | 0               | 1460     |

ND – Analyte Not Detected

Complete Laboratory Reports are attached in Appendix E.

**Closure Request**

After careful review, Pima requests that this incident, NCS2002754182, be closed. Spur has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Tom Bynum at 575-964-7740 or tom@pimaoil.com.

Respectfully,

*Tom Bynum*

Tom Bynum  
Project Manager  
Pima Environmental Services, LLC

**Attachments**

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map
- 5- Confirmation Sample Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form & 48-Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports
- Appendix F – Previously Rejected NMOCD Closure Report



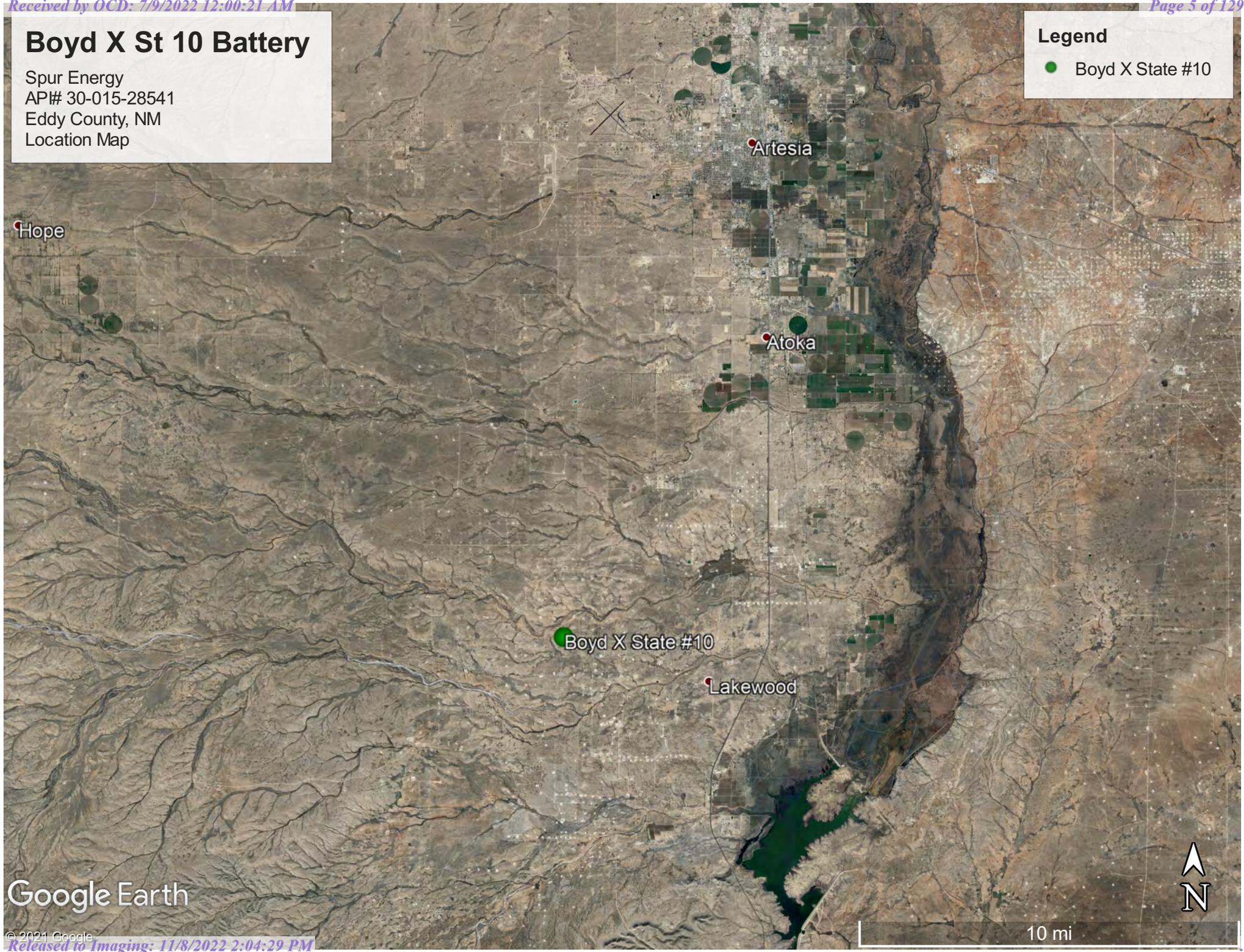
Pima Environmental Services

**Figures:**

- 1 - Location Map
- 2 - Topographic Map
- 3 - Karst Map
- 4 - Site Map
- 5 – Confirmation Sample Map

**Boyd X St 10 Battery**  
 Spur Energy  
 AP# 30-015-28541  
 Eddy County, NM  
 Location Map

**Legend**  
 ● Boyd X State #10



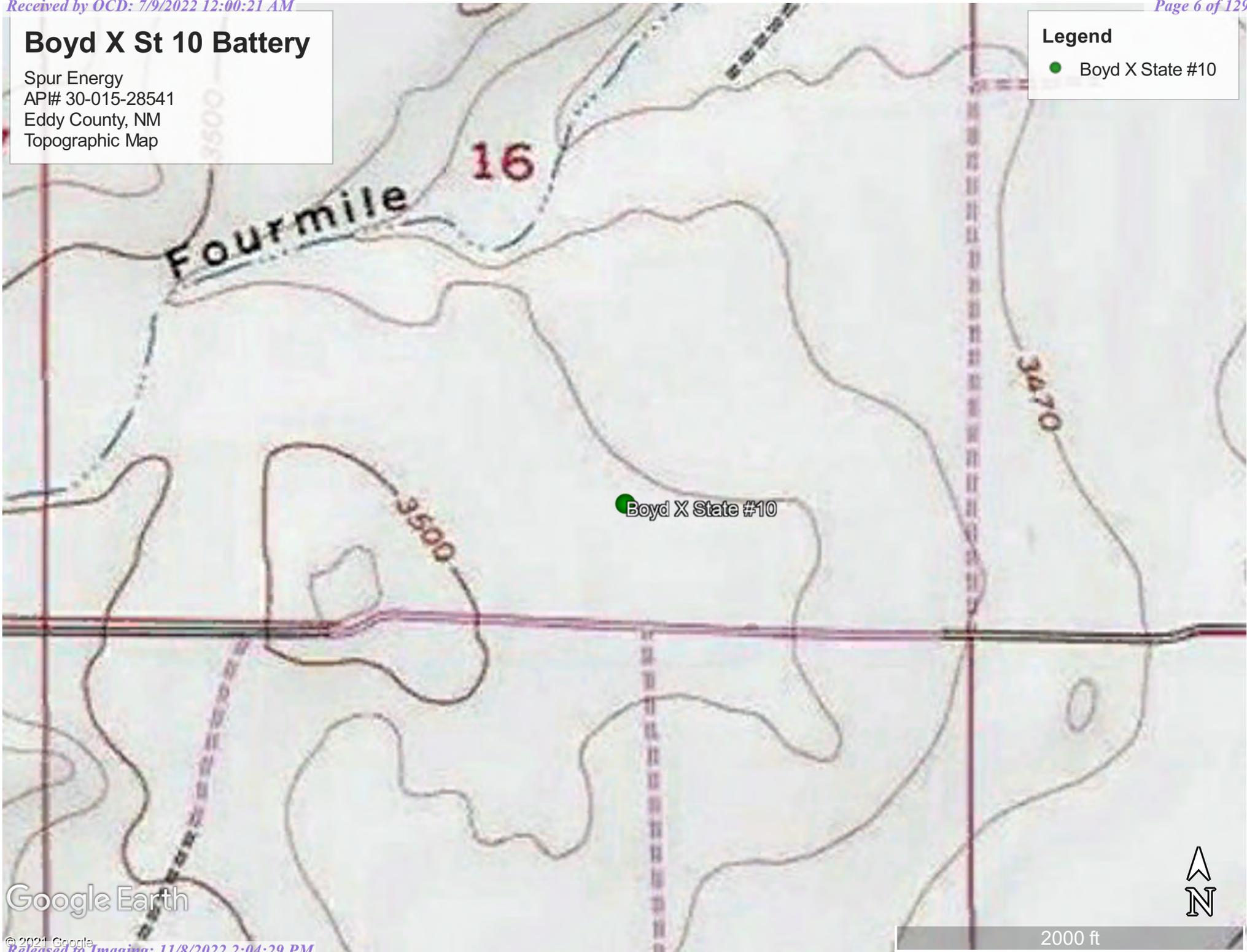
Google Earth

# Boyd X St 10 Battery

Spur Energy  
AP# 30-015-28541  
Eddy County, NM  
Topographic Map

**Legend**

- Boyd X State #10



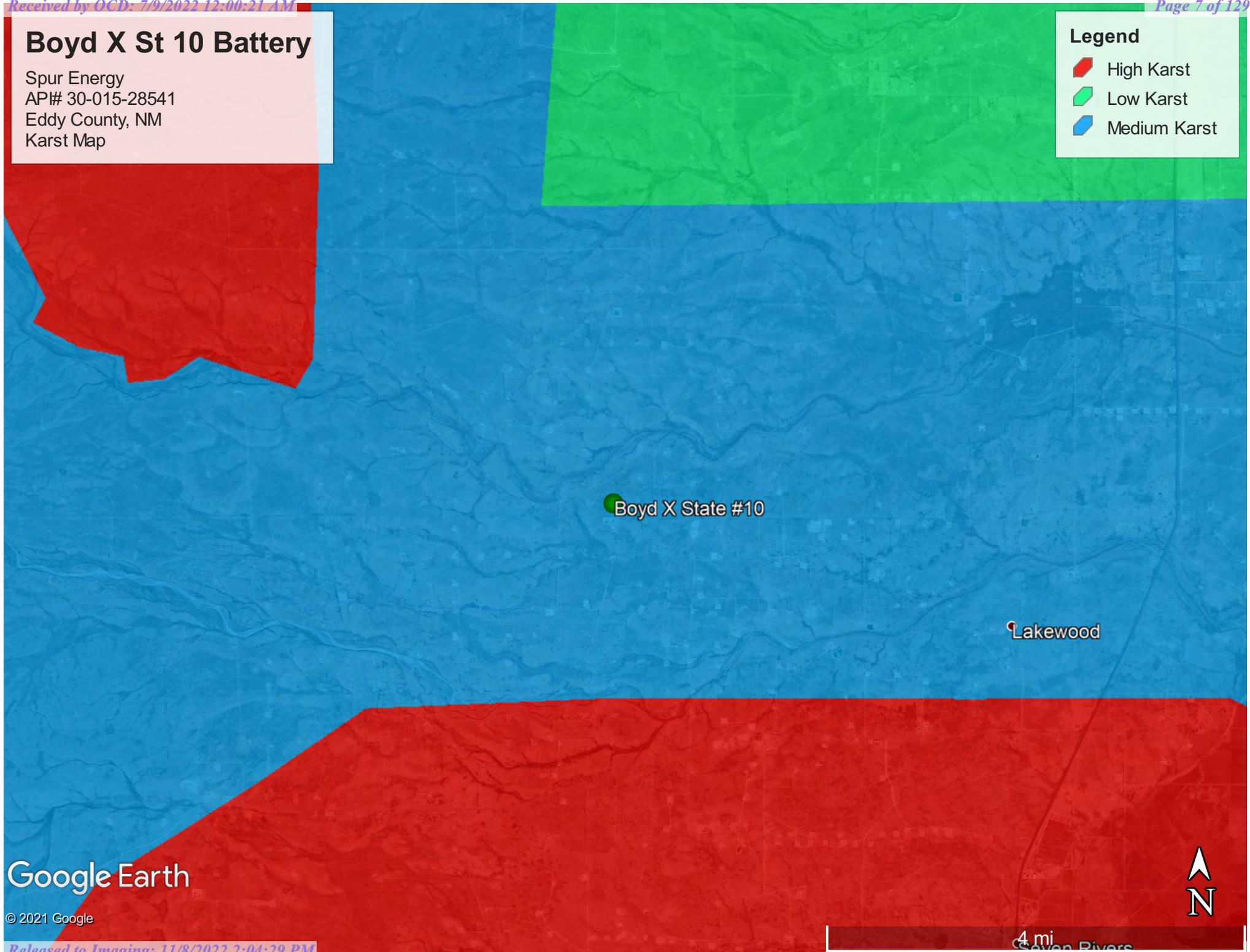
Google Earth

2000 ft

**Boyd X St 10 Battery**  
 Spur Energy  
 AP# 30-015-28541  
 Eddy County, NM  
 Karst Map

**Legend**

-  High Karst
-  Low Karst
-  Medium Karst



Google Earth

© 2021 Google

4 mi

Seven Rivers



# Boyd X St 10 Battery

Spur Energy  
AP# 30-015-28541  
Eddy County, NM  
Site Map

**Legend**

-  32.655972, -104.487836
-  Open Excavation

 32.655972, -104.487836

 Boyd X State #10

 Boyd X State 10 Battery



# Boyd X State 10 Battery

Spur Energy  
API #30-015-28541  
Eddy County, NM  
Confirmation Sample Map

## Legend

-  Confirmation Samples
-  E. Comp Wall



Google Earth



70 ft



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**Appendix A**

Water Surveys:

OSE

USGS

Atkins Engineering

Surface Water Map



# 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                    | POD Code | Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng    | X        | Y        | Distance | DepthWell | DepthWater | Water Column |
|-------------------------------|----------|-----------|--------|------|------|-----|-----|-----|--------|----------|----------|----------|-----------|------------|--------------|
| <a href="#">RA 05900</a>      | RA       | ED        | ED     | 2    | 2    | 16  | 19S | 25E | 548442 | 3614424* | 1273     | 185      | 95        | 90         |              |
| <a href="#">RA 02909</a>      | RA       | ED        | ED     | 1    | 3    | 22  | 19S | 25E | 548864 | 3611989* | 1426     | 188      | 130       | 58         |              |
| <a href="#">RA 08986</a>      | RA       | ED        | ED     | 1    | 3    | 3   | 22  | 19S | 25E    | 548825   | 3611507  | 1836     | 320       | 220        | 100          |
| <a href="#">RA 05450</a>      | RA       | CH        | CH     | 4    | 2    | 15  | 19S | 25E | 550057 | 3614015* | 2117     | 204      | 80        | 124        |              |
| <a href="#">RA 06418</a>      | RA       | ED        | ED     | 1    | 2    | 3   | 17  | 19S | 25E    | 545925   | 3613710* | 2238     | 120       | 72         | 48           |
| <a href="#">RA 03304</a>      | RA       | ED        | ED     |      | 1    | 27  | 19S | 25E | 549081 | 3610973* | 2428     | 130      | 60        | 70         |              |
| <a href="#">RA 05333</a>      | RA       | ED        | ED     | 2    | 2    | 09  | 19S | 25E | 548430 | 3616046* | 2867     | 315      | 260       | 55         |              |
| <a href="#">RA 11654 POD1</a> | RA       | ED        | ED     | 3    | 2    | 19  | 19S | 25E | 544959 | 3612514  | 3218     | 500      |           |            |              |
| <a href="#">RA 04726</a>      | RA       | ED        | ED     | 3    | 2    | 19  | 19S | 25E | 544825 | 3612390* | 3376     | 390      | 310       | 80         |              |
| <a href="#">RA 12222 POD1</a> | RA       | ED        | ED     | 2    | 4    | 2   | 30  | 19S | 25E    | 545284   | 3610884  | 3646     |           |            |              |
| <a href="#">RA 04426</a>      | RA       | CH        | CH     | 4    | 3    | 18  | 19S | 25E | 544412 | 3613201* | 3692     | 715      |           |            |              |

Average Depth to Water: **153 feet**  
 Minimum Depth: **60 feet**  
 Maximum Depth: **310 feet**

**Record Count:** 11

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

**Easting (X):** 548104.1

**Northing (Y):** 3613196.59

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

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.

7/30/21 7:33 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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Groundwater

Geographic Area:

United States

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- [Full News](#)

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### Search Results -- 1 sites found

site\_no list =

- 323922104284301

Minimum number of levels = 1

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

### USGS 323922104284301 19S.25E.15.33334

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'22", Longitude 104°28'43" NAD27

Land-surface elevation 3,471 feet above NAVD88

The depth of the well is 495 feet below land surface.

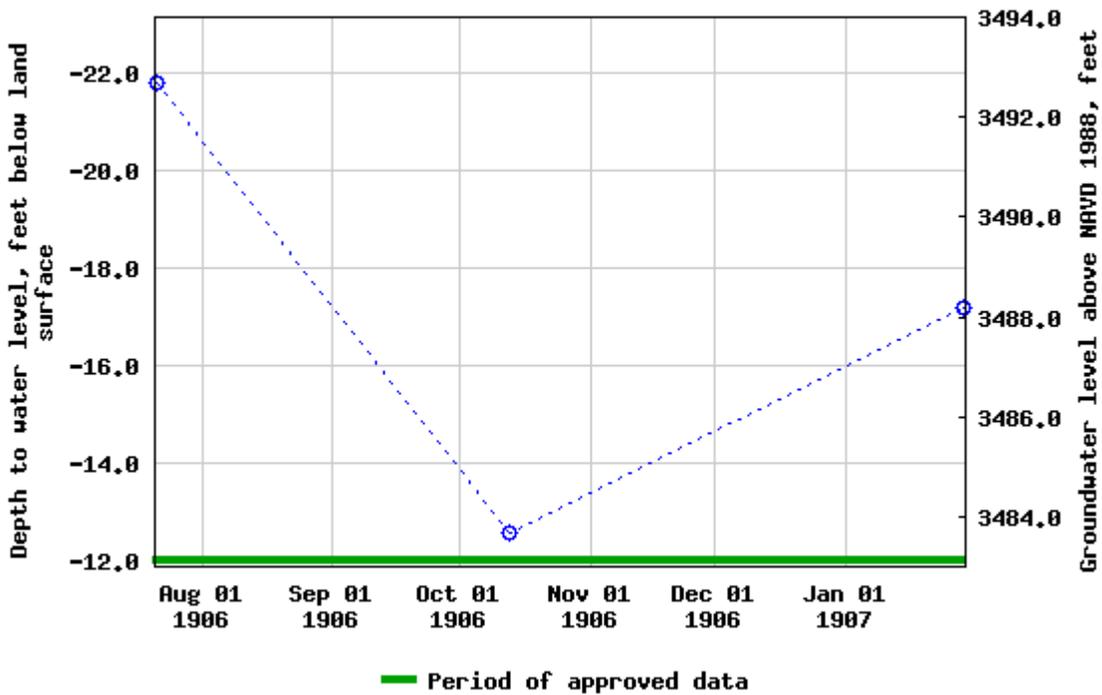
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Artesia Group (313ARTS) local aquifer.

#### Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

USGS 323922104284301 19S.25E.15.33334



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

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0.55 0.47 nadww02



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USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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### Search Results -- 1 sites found

site\_no list =

- 323911104282201

Minimum number of levels = 1

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

### USGS 323911104282201 19S.25E.22.12431

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'11", Longitude 104°28'22" NAD27

Land-surface elevation 3,470 feet above NAVD88

The depth of the well is 285 feet below land surface.

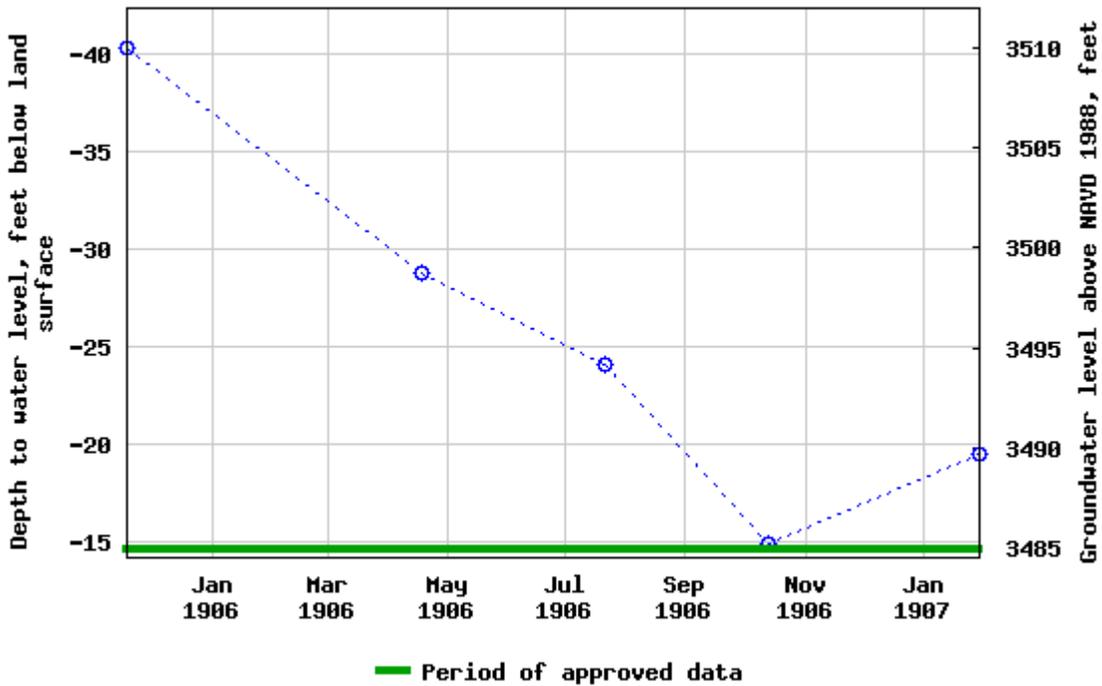
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Artesia Group (313ARTS) local aquifer.

#### Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

USGS 323911104282201 19S.25E.22.12431



Breaks in the plot represent a gap of at least one year between field measurements.  
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Page Contact Information: [USGS Water Data Support Team](#)

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0.57 0.49 nadww02

# Boyd X State 10 Battery

Spur Energy  
AP# 30-015-28541  
Eddy County, NM  
Atkins Eng. Well Map

## Legend

-  280'
-  MW-1 (32.655787, -104.487946)
-  Open Excavation

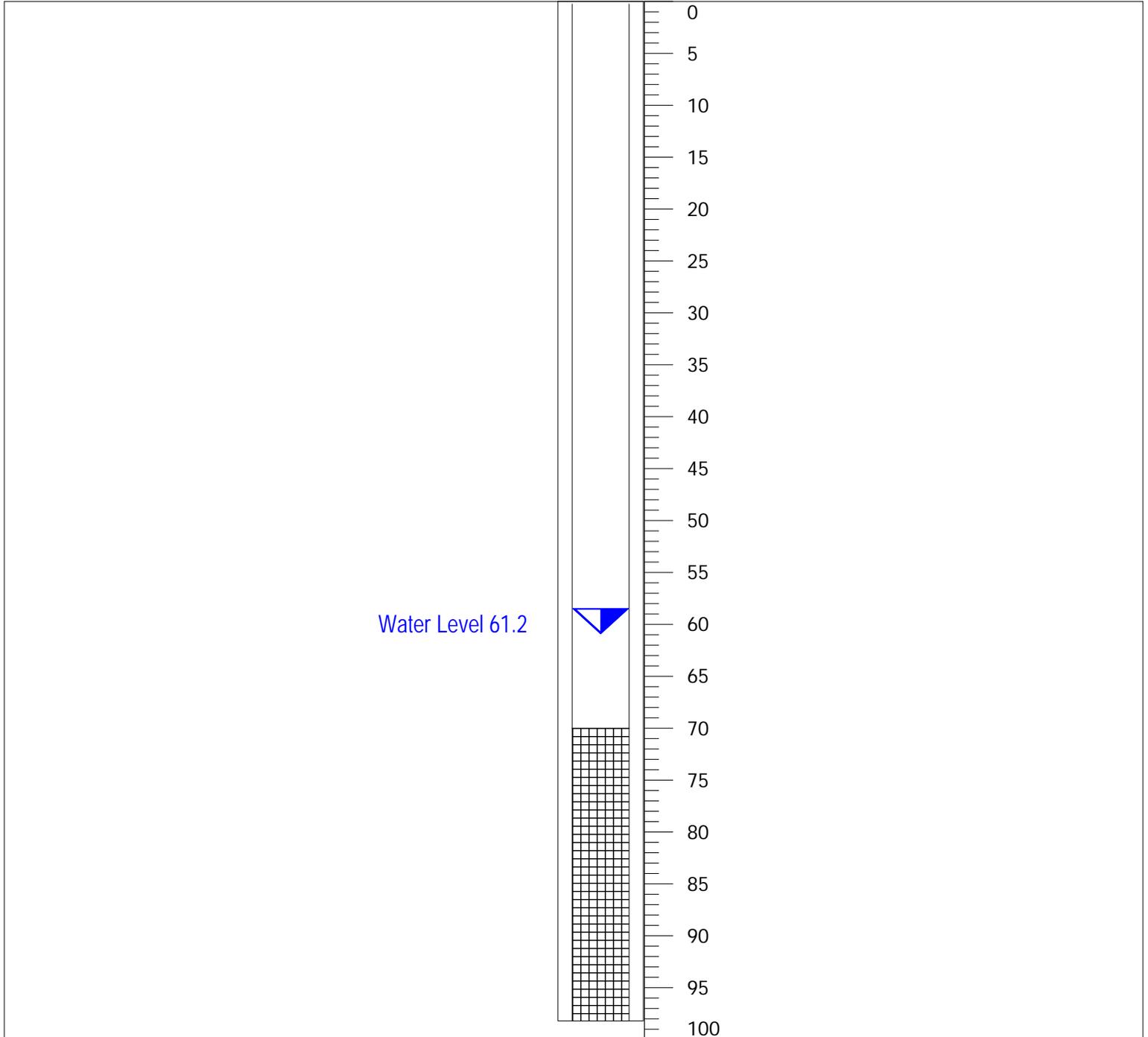
MW-1 (32.655787, -104.487946)

Boyd X State 10 Battery



Atkins Engineering Associates Inc.  
2904 W 2nd St. | Roswell, NM 88201  
Office 575.624.2420 | Fax 575.624.2421  
www.atkinseng.com

MW-1  
Boyd X State #10  
Camera (Heron)  
8/4/21 7:30am



NOTES- Casing was 2" Certa-Loc, only the casing was gauged and viewed via Heron down hole camera approx location is 32.655787 -104.487946, well construction is unknown

# Boyd X St 10 Battery

Spur Energy  
AP# 30-015-28541  
Eddy County, NM  
Surface Water Map

**Legend**

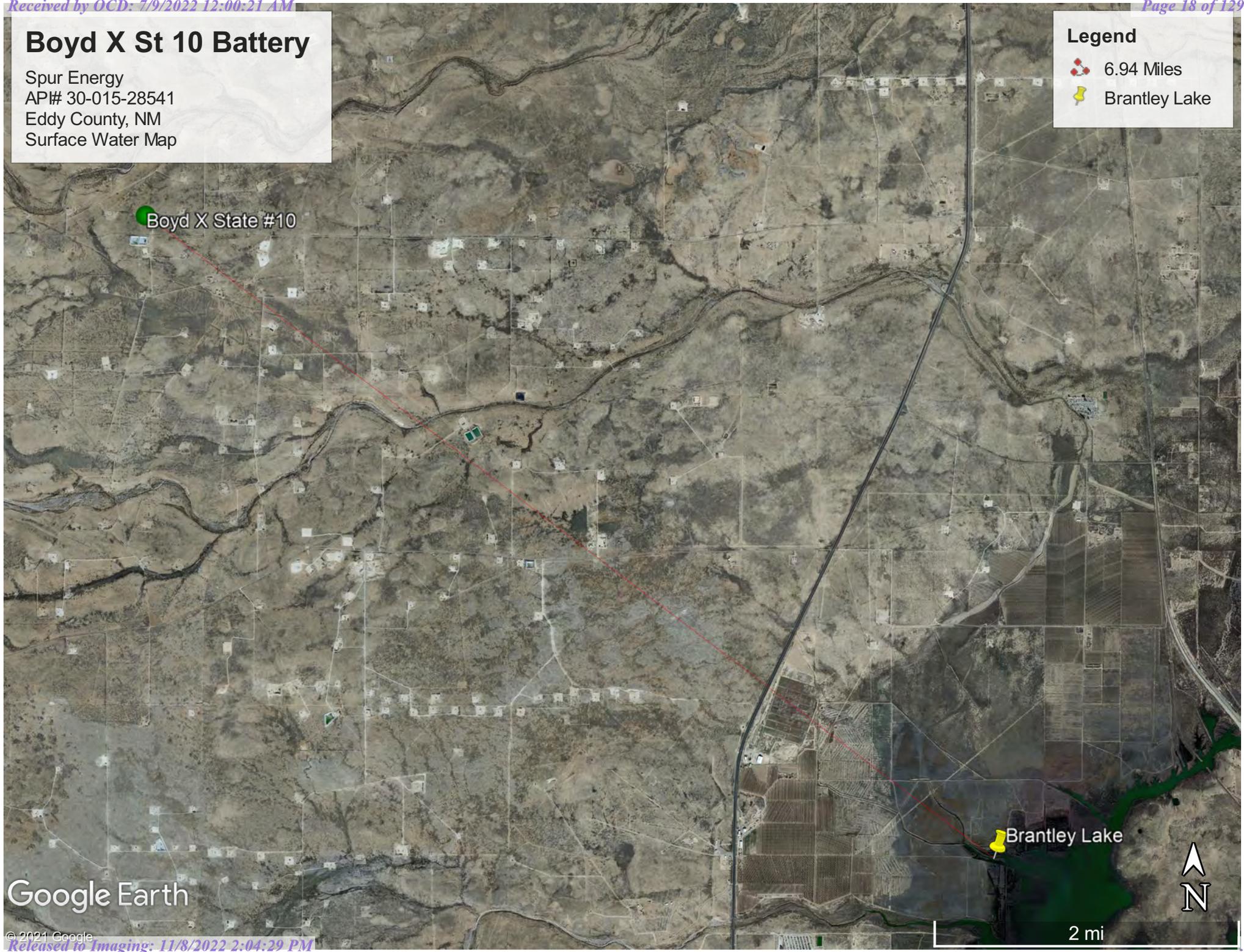
-  6.94 Miles
-  Brantley Lake

Boyd X State #10

Brantley Lake

Google Earth

2 mi





Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

## Eddy Area, New Mexico

### RE—Reagan-Upton association, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5d  
*Elevation:* 1,100 to 5,400 feet  
*Mean annual precipitation:* 6 to 14 inches  
*Mean annual air temperature:* 60 to 64 degrees F  
*Frost-free period:* 180 to 240 days  
*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Reagan and similar soils:* 70 percent  
*Upton and similar soils:* 25 percent  
*Minor components:* 5 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Reagan

##### Setting

*Landform:* Alluvial fans, fan remnants  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear  
*Parent material:* Alluvium and/or eolian deposits

##### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 6e

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

---

*Hydrologic Soil Group:* B  
*Ecological site:* R070DY153NM - Loamy  
*Hydric soil rating:* No

### Description of Upton

#### Setting

*Landform:* Fans, ridges  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

#### Typical profile

*H1 - 0 to 9 inches:* gravelly loam  
*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

#### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R070DY159NM - Shallow Loamy  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Pima

*Percent of map unit:* 2 percent  
*Ecological site:* R042XC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

---

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 16, Jun 8, 2020

# National Flood Hazard Layer FIRMette



104°29'32"W 32°39'34"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

|                             |  |  |
|-----------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS  |  | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|                             |  | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|                             |  | Regulatory Floodway  |
| OTHER AREAS OF FLOOD HAZARD |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
|                             |  | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|                             |  | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|                             |  | Area with Flood Risk due to Levee <i>Zone D</i>  |
| OTHER AREAS                 |  | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|                             |  | Effective LOMRs  |
| GENERAL STRUCTURES          |  | Area of Undetermined Flood Hazard <i>Zone D</i>  |
|                             |  | Channel, Culvert, or Storm Sewer   |
|                             |  | Levee, Dike, or Floodwall  |
| OTHER FEATURES              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                             |  | 17.5 Coastal Transect  |
|                             |  | Base Flood Elevation Line (BFE)  |
|                             |  | Limit of Study   |
|                             |  | Jurisdiction Boundary  |
|                             |  | Coastal Transect Baseline  |
| MAP PANELS                  |  | Profile Baseline   |
|                             |  | Hydrographic Feature   |
|                             |  | Digital Data Available   |
|                             |  | No Digital Data Available  |
|                             |  | Unmapped   |

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/31/2021 at 2:37 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Pima Environmental Services

**Appendix C**

C-141 Form

48-Hour Notification

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

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

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

|                |               |
|----------------|---------------|
| Incident ID    | NCS2002754182 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Release Notification

### Responsible Party

|                         |   |                              |               |
|-------------------------|---|------------------------------|---------------|
| Responsible Party       | EOG Resources, Inc.                     | OGRID                        | 7377          |
| Contact Name            | Chase Settle                            | Contact Telephone            | 575-748-1471  |
| Contact email           | Chase_Settle@eogresources.com           | Incident # (assigned by OCD) | NCS2002754182 |
| Contact mailing address | 104 South 4th Street, Artesia, NM 88210 |                              |               |

### Location of Release Source

Latitude 32.65530 Longitude -104.48707  
*(NAD 83 in decimal degrees to 5 decimal places)*

|                         |                          |                      |         |
|-------------------------|--------------------------|----------------------|---------|
| Site Name               | Boyd X State #10 Battery | Site Type            | Battery |
| Date Release Discovered | 11/11/2019               | API# (if applicable) |         |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| O           | 16      | 19S      | 25E   | Eddy   |

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|  |  |   |
|--|--|---|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)   | Volume Recovered (bbls)   |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 15  | Volume Recovered (bbls) 12  |
|  | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)   | Volume Recovered (bbls)   |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)  | Volume Recovered (Mcf)  |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                             |

Cause of Release

Valve failure occurred on a produced water transfer line causing the release.

Form C-141

State of New Mexico  
Oil Conservation Division

Page 2

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

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

### Initial Response

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

|  |
|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |
| If all the actions described above have <u>not</u> been undertaken, explain why:   |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |
| Printed Name: <u>Chase Settle</u> Title: <u>Safety and Environmental Rep II</u><br>Signature: <u></u> Date: <u>11/21/2019</u><br>email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-1471</u>   |
| <b>OCD Only</b><br>Received by: <u></u> Date: <u>1/27/2020</u>  |

|                |               |
|----------------|---------------|
| Incident ID    | NCS2002754182 |
| 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?   | 51-100 (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

|                |               |
|----------------|---------------|
| Incident ID    | NCS2002754182 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

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

Printed Name: Chad Hensley Title: HSE Coordinator

Signature:  Date: 6/22/2022

email: chensley@spurenergy.com Telephone: 346-339-1494

**OCD Only**

Received by: Jocelyn Harimon Date: 11/08/2022

State of New Mexico  
Oil Conservation Division

Page 6

|                |               |
|----------------|---------------|
| Incident ID    | NCS2002754182 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Closure

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

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

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

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

Printed Name: Chad Hensley Title: HSE Coordinator  
 Signature:  Date: 6/22/2022  
 email: chensley@spurenergy.com Telephone: 346-339-1494

**OCD Only**

Received by: Jocelyn Harimon Date: 11/08/2022

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: 11/08/2022  
 Printed Name: Jocelyn Harimon Title: Environmental Specialist

**From:** [Tom Bynum](#)  
**To:** [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us); "[Hensley, Chad, EMNRD](#)"; [cory.smith@state.nm.us](mailto:cory.smith@state.nm.us); [brad.billings@state.nm.us](mailto:brad.billings@state.nm.us); "[Hamlet, Robert, EMNRD](#)"; "[Bratcher, Mike, EMNRD](#)"  
**Cc:** "[Dakota Neel](#)"; "[Braidy Moulder](#)"; "[Chris Jones](#)"  
**Subject:** 48-Hour Notification - Confirmation Sampling NCS2002754182  
**Date:** Tuesday, August 31, 2021 12:32:48 PM

---

Good afternoon,  
Pima Environmental would like to notify you that we will be collecting confirmation samples at the Boyd X State #10 Battery for incident ID NCS2002754182. One of our techs is scheduled to be on site for this sampling event at approximately 1:00 p.m. on Thursday, September 2<sup>nd</sup>.

**THANK YOU,**

Tom Bynum  
Environmental Project Manager  
Cell – 580-748-1613  
Office – 575-964-7740



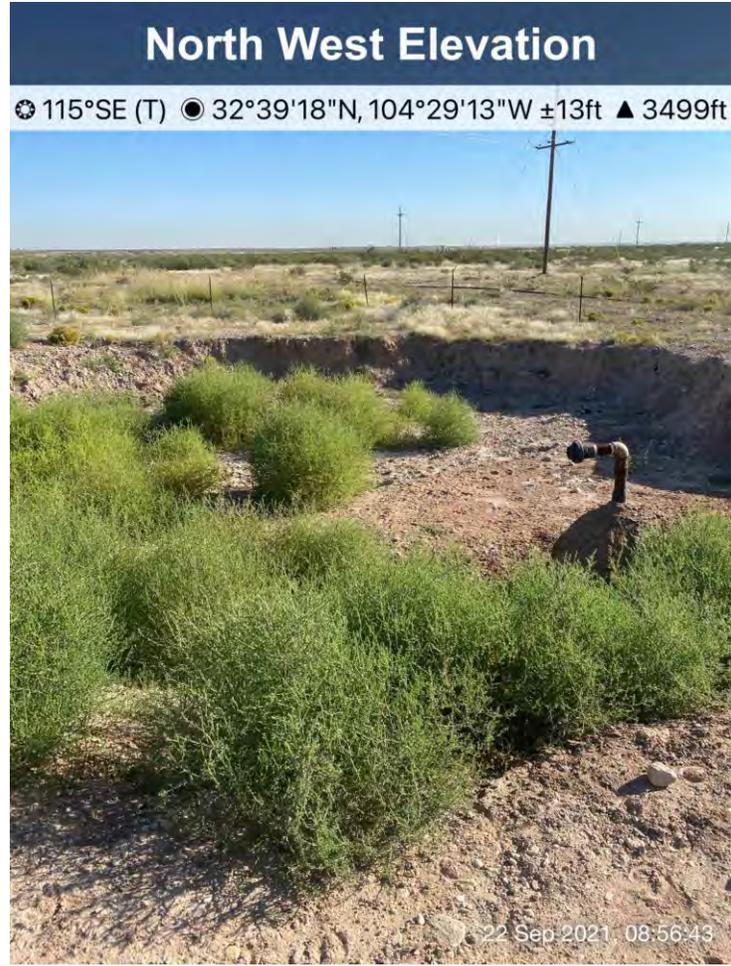
**Pima Environmental Services, LLC.**



Pima Environmental Services

**Appendix D**

Photographic Documentation



## South East Elevation

☉ 298°NW (T) ● 32°39'19"N, 104°29'13"W ±13ft ▲ 3498ft



## North East Elevation

☉ 240°SW (T) ● 32°39'19"N, 104°29'13"W ±13ft ▲ 3500ft









Pima Environmental Services

**Appendix E**

Laboratory Reports



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

---

July 29, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: BOYD X STATE #10

Enclosed are the results of analyses for samples received by the laboratory on 07/28/21 9:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
 TOM BYNUM  
 1601 N TURNER STE. 500  
 HOBBS NM, 88240  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 07/28/2021               | Sampling Date:      | 07/22/2021     |
| Reported:         | 07/29/2021               | Sampling Type:      | Soil           |
| Project Name:     | BOYD X STATE #10         | Sampling Condition: | Cool & Intact  |
| Project Number:   | 6-33                     | Sample Received By: | Tamara Oldaker |
| Project Location: | SPUR ENERGY - EDDY CO NM |                     |                |

**Sample ID: N. COMP WALL (H211984-01)**

| 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>496</b> | 16.0            | 07/29/2021 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: E. COMP WALL (H211984-02)**

| 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>14100</b> | 16.0            | 07/29/2021 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: S. COMP WALL (H211984-03)**

| 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>224</b> | 16.0            | 07/29/2021 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: W. COMP WALL (H211984-04)**

| 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>256</b> | 16.0            | 07/29/2021 | ND              | 416 | 104        | 400           | 0.00 |           |

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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 07/28/2021               | Sampling Date:      | 07/22/2021     |
| Reported:         | 07/29/2021               | Sampling Type:      | Soil           |
| Project Name:     | BOYD X STATE #10         | Sampling Condition: | Cool & Intact  |
| Project Number:   | 6-33                     | Sample Received By: | Tamara Oldaker |
| Project Location: | SPUR ENERGY - EDDY CO NM |                     |                |

**Sample ID: CS - 1 SURFACE (H211984-05)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6660   | 16.0            | 07/29/2021 | ND              | 400 | 100        | 400           | 3.92 | QM-07     |

**Sample ID: CS - 1 1.5' (H211984-06)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6000   | 16.0            | 07/29/2021 | ND              | 400 | 100        | 400           | 3.92 |           |

**Sample ID: CS - 2 SURFACE (H211984-07)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2600   | 16.0            | 07/29/2021 | ND              | 400 | 100        | 400           | 3.92 |           |

**Sample ID: CS - 2 1.5' (H211984-08)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4660   | 16.0            | 07/29/2021 | ND              | 400 | 100        | 400           | 3.92 |           |

**Sample ID: CS - 3 SURFACE (H211984-09)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 512    | 16.0            | 07/29/2021 | ND              | 400 | 100        | 400           | 3.92 |           |

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
 TOM BYNUM  
 1601 N TURNER STE. 500  
 HOBBS NM, 88240  
 Fax To:

Received: 07/28/2021  
 Reported: 07/29/2021  
 Project Name: BOYD X STATE #10  
 Project Number: 6-33  
 Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 07/22/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 4 SURFACE (H211984-10)**

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>672</b> | 16.0            | 07/29/2021 | ND              | 400 | 100        | 400           | 3.92 |           |

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

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Pima Environmental Services-Carlsbad

Project Name: Boyd x State #10 Batt

Work Order: E109028

Job Number: 21068-0001

Received: 9/10/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/16/21

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 9/16/21



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Boyd x State #10 Batt  
Workorder: E109028  
Date Received: 9/10/2021 11:20:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/10/2021 11:20:00AM, under the Project Name: Boyd x State #10 Batt.

The analytical test results summarized in this report with the Project Name: Boyd x State #10 Batt apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
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### Sample Summary

|   |   |                                    |
|---|---|------------------------------------|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd x State #10 Batt<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>09/16/21 13:15 |
|---|---|------------------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| E-Comp Wall 1'   | E109028-01A   | Soil   | 09/02/21 | 09/10/21 | Glass Jar, 4 oz. |



### Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd x State #10 Batt<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>9/16/2021 1:15:43PM |
|---|---|---|

#### E-Comp Wall 1'

#### E109028-01

| Analyte                          | Result | Reporting Limit | Dilution    | Prepared | Analyzed | Notes          |
|----------------------------------|--------|-----------------|-------------|----------|----------|----------------|
| <b>Anions by EPA 300.0/9056A</b> | mg/kg  | mg/kg           | Analyst: IY |          |          | Batch: 2138025 |
| Chloride                         | ND     | 20.0            | 1           | 09/15/21 | 09/15/21 |                |



### QC Summary Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd x State #10 Batt<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>9/16/2021 1:15:43PM |
|---|---|---|

#### Anions by EPA 300.0/9056A

Analyst: IY

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

**Blank (2138025-BLK1)**

Prepared: 09/15/21 Analyzed: 09/15/21

|          |    |      |  |  |  |  |  |  |  |
|----------|----|------|--|--|--|--|--|--|--|
| Chloride | ND | 20.0 |  |  |  |  |  |  |  |
|----------|----|------|--|--|--|--|--|--|--|

**LCS (2138025-BS1)**

Prepared: 09/15/21 Analyzed: 09/15/21

|          |     |      |     |  |      |        |  |  |  |
|----------|-----|------|-----|--|------|--------|--|--|--|
| Chloride | 246 | 20.0 | 250 |  | 98.3 | 90-110 |  |  |  |
|----------|-----|------|-----|--|------|--------|--|--|--|

**Matrix Spike (2138025-MS1)**

Source: E109039-01

Prepared: 09/15/21 Analyzed: 09/15/21

|          |     |      |     |      |      |        |  |  |  |
|----------|-----|------|-----|------|------|--------|--|--|--|
| Chloride | 276 | 20.0 | 250 | 34.9 | 96.5 | 80-120 |  |  |  |
|----------|-----|------|-----|------|------|--------|--|--|--|

**Matrix Spike Dup (2138025-MSD1)**

Source: E109039-01

Prepared: 09/15/21 Analyzed: 09/15/21

|          |     |      |     |      |     |        |      |    |  |
|----------|-----|------|-----|------|-----|--------|------|----|--|
| Chloride | 287 | 20.0 | 250 | 34.9 | 101 | 80-120 | 3.77 | 20 |  |
|----------|-----|------|-----|------|-----|--------|------|----|--|

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## Definitions and Notes

|                                      |                  |                       |                  |
|--------------------------------------|------------------|-----------------------|------------------|
| Pima Environmental Services-Carlsbad | Project Name:    | Boyd x State #10 Batt |                  |
| PO Box 247                           | Project Number:  | 21068-0001            | <b>Reported:</b> |
| Plains TX, 79355-0247                | Project Manager: | Tom Bynum             | 09/16/21 13:15   |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



|  |  |   |  |  |  |  |  |  |  |  |                                 |  |
|--|--|---|--|--|--|--|--|--|--|--|---------------------------------|--|
| Client: Pima Environmental Services<br>Project: <u>Boyd X STATE #10 BATT</u><br>Project Manager: Tom Bynum<br>Address: 1601 N Turner St., Suite 500<br>City, State, Zip <u>Hobbs, NM, 88240</u><br>Phone: 580-748-1613<br>Email: tom@pimaoil.com<br>Report due by: |  | Bill To<br>Attention: <u>SPUR</u><br>Address:<br>City, State, Zip<br>Phone:<br>Email:<br>Pima Project # <u>6-33</u> |  | Lab Use Only<br>Lab WO# <u>E10902001</u> Job Number <u>21068-0001</u><br>Analysis and Method       |  |  |  | TAT<br>1D 2D 3D Standard <input checked="" type="checkbox"/> |  |  | EPA Program<br>CWA SDWA<br>RCRA |  |
|  |  |   |  | DRO/DRO by 8015<br>GRO/DRO by 8015<br>BTEX by 8021<br>VOC by 8260<br>Metals 6010<br>Chloride 300.0 |  |  |  | NM CO<br>UT AZ TX  |  |  | State<br>NM CO UT AZ TX         |  |

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID        | Lab Number | DRO/DRO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX | Remarks |
|--------------|--------------|--------|-------------------|------------------|------------|-----------------|-----------------|--------------|-------------|-------------|----------------|----------|----------|---------|
| 0910         | 9/2/21       | Soil   | 1                 | E - Comp Wall 1' | 1          |                 |                 |              |             |             | X              |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |
|              |              |        |                   |                  |            |                 |                 |              |             |             |                |          |          |         |

**Additional Instructions:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

|   |  |  |  |   |  |  |  |   |  |
|---|--|--|--|---|--|--|--|---|--|
| Relinquished by: (Signature) <u>[Signature]</u> Date <u>9/9/21</u> Time <u>1210</u> |  |  |  | Received by: (Signature) <u>[Signature]</u> Date <u>9-9-21</u> Time <u>1210</u>   |  |  |  | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. |  |
| Relinquished by: (Signature) <u>[Signature]</u> Date <u>9-9-21</u> Time <u>1655</u> |  |  |  | Received by: (Signature) <u>[Signature]</u> Date <u>9-10-21</u> Time <u>11:20</u> |  |  |  | Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N   |  |
| Relinquished by: (Signature) _____ Date _____ Time _____                            |  |  |  | Received by: (Signature) _____ Date _____ Time _____                              |  |  |  | T1 _____ T2 _____ T3 _____  |  |
|   |  |  |  |   |  |  |  | AVG Temp °C <u>4</u>  |  |

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 9/10/2021 2:22:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Pima Environmental Services-Carlsbad Date Received: 09/10/21 11:20 Work Order ID: E109028
Phone: (575) 631-6977 Date Logged In: 09/10/21 14:16 Logged In By: Jessica Liesse
Email: tom@pimaoil.com Due Date: 09/16/21 17:00 (4 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: FedEx

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for client instruction.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Pima Environmental Services-Carlsbad

Project Name: Boyd X State 10 Battery

Work Order: E206089

Job Number: 21068-0001

Received: 6/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/21/22

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
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Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)



Date Reported: 6/21/22

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Boyd X State 10 Battery  
Workorder: E206089  
Date Received: 6/14/2022 1:15:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2022 1:15:00PM, under the Project Name: Boyd X State 10 Battery.

The analytical test results summarized in this report with the Project Name: Boyd X State 10 Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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### Sample Summary

|   |   |                                    |
|---|---|------------------------------------|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>06/21/22 17:58 |
|---|---|------------------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| ESW1-1'          | E206089-01A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |
| ESW1-3'          | E206089-02A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |
| ESW1-5'          | E206089-03A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |
| ESW2-1'          | E206089-04A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |
| ESW2-3'          | E206089-05A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |
| ESW2-5'          | E206089-06A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |
| ESW3-1'          | E206089-07A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |
| ESW3-3'          | E206089-08A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |
| ESW3-5'          | E206089-09A   | Soil   | 06/12/22 | 06/14/22 | Glass Jar, 4 oz. |

## Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

## ESW1-1'

## E206089-01

| Analyte   | Result | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|--------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  | 94.2 % | 70-130          |          | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               | 99.7 % | 70-130          |          | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          | 93.7 % | 70-130          |          | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  | 94.2 % | 70-130          |          | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               | 99.7 % | 70-130          |          | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          | 93.7 % | 70-130          |          | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | 27.1   | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | 53.7   | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            | 89.7 % | 50-200          |          | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | 1410   | 20.0            | 1        | 06/15/22     | 06/16/22 |                |



### Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

**ESW1-3'**  
**E206089-02**

| Analyte   | Result | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|--------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 94.4 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 101 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 93.0 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 94.4 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 101 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 93.0 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            |        | 96.0 %          | 50-200   | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | 1510   | 20.0            | 1        | 06/15/22     | 06/16/22 |                |



### Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

**ESW1-5'**

**E206089-03**

| Analyte   | Result      | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|-------------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        | mg/kg       | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND          | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND          | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND          | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND          | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND          | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND          | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |             | 94.8 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |             | 102 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |             | 93.5 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg       | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND          | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |             | 94.8 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |             | 102 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |             | 93.5 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg       | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | <b>25.9</b> | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | <b>50.0</b> | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            |             | 92.2 %          | 50-200   | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg       | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | <b>1510</b> | 40.0            | 2        | 06/15/22     | 06/16/22 |                |



### Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

**ESW2-1'**  
**E206089-04**

| Analyte   | Result | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|--------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 94.4 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 102 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 93.0 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 94.4 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 102 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 93.0 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            |        | 86.1 %          | 50-200   | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | ND     | 20.0            | 1        | 06/15/22     | 06/16/22 |                |



## Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

## ESW2-3'

## E206089-05

| Analyte   | Result | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|--------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 92.4 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 102 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 93.8 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 92.4 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 102 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 93.8 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            |        | 96.1 %          | 50-200   | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | 1530   | 40.0            | 2        | 06/15/22     | 06/16/22 |                |



### Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

**ESW2-5'**

**E206089-06**

| Analyte   | Result | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|--------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |              |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 92.8 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 98.7 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 91.7 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |              |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 92.8 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 98.7 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 91.7 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |              |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            |        | 100 %           | 50-200   | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |              |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | 1510   | 40.0            | 2        | 06/15/22     | 06/16/22 |                |



### Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

**ESW3-1'**

**E206089-07**

| Analyte   | Result | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|--------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 92.6 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 101 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 92.4 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 92.6 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 101 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 92.4 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            |        | 91.9 %          | 50-200   | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | ND     | 20.0            | 1        | 06/15/22     | 06/16/22 |                |



### Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

**ESW3-3'**

**E206089-08**

| Analyte   | Result | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|--------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 92.1 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 101 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 92.3 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 92.1 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 101 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 92.3 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            |        | 101 %           | 50-200   | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | 54.6   | 20.0            | 1        | 06/15/22     | 06/16/22 |                |



## Sample Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

## ESW3-5'

## E206089-09

| Analyte   | Result | Reporting Limit | Dilution | Prepared     | Analyzed | Notes          |
|---|--------|-----------------|----------|--------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Benzene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| Toluene   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 06/15/22     | 06/15/22 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 94.2 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 101 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 92.8 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           |          | Analyst: RKS |          | Batch: 2225041 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Bromofluorobenzene</i>                  |        | 94.2 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>               |        | 101 %           | 70-130   | 06/15/22     | 06/15/22 |                |
| <i>Surrogate: Toluene-d8</i>                          |        | 92.8 %          | 70-130   | 06/15/22     | 06/15/22 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           |          | Analyst: JL  |          | Batch: 2226003 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 06/20/22     | 06/21/22 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 06/20/22     | 06/21/22 |                |
| <i>Surrogate: n-Nonane</i>                            |        | 103 %           | 50-200   | 06/20/22     | 06/21/22 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           |          | Analyst: RAS |          | Batch: 2225043 |
| Chloride  | 1460   | 40.0            | 2        | 06/15/22     | 06/16/22 |                |



### QC Summary Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

#### Volatile Organic Compounds by EPA 8260B

Analyst: RKS

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec % | Rec Limits | RPD % | RPD Limit | Notes |
|---------|--------|-----------------|-------------|---------------|-------|------------|-------|-----------|-------|
|         | mg/kg  | mg/kg           | mg/kg       | mg/kg         | %     | %          | %     | %         |       |

#### Blank (2225041-BLK1)

Prepared: 06/15/22 Analyzed: 06/15/22

|                                  |       |        |       |  |      |        |  |  |  |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene                          | ND    | 0.0250 |       |  |      |        |  |  |  |
| Ethylbenzene                     | ND    | 0.0250 |       |  |      |        |  |  |  |
| Toluene                          | ND    | 0.0250 |       |  |      |        |  |  |  |
| o-Xylene                         | ND    | 0.0250 |       |  |      |        |  |  |  |
| p,m-Xylene                       | ND    | 0.0500 |       |  |      |        |  |  |  |
| Total Xylenes                    | ND    | 0.0250 |       |  |      |        |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.460 |        | 0.500 |  | 91.9 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.490 |        | 0.500 |  | 98.0 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.470 |        | 0.500 |  | 93.9 | 70-130 |  |  |  |

#### LCS (2225041-BS1)

Prepared: 06/15/22 Analyzed: 06/15/22

|                                  |       |        |       |  |      |        |  |  |  |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene                          | 2.67  | 0.0250 | 2.50  |  | 107  | 70-130 |  |  |  |
| Ethylbenzene                     | 2.64  | 0.0250 | 2.50  |  | 106  | 70-130 |  |  |  |
| Toluene                          | 2.61  | 0.0250 | 2.50  |  | 104  | 70-130 |  |  |  |
| o-Xylene                         | 2.77  | 0.0250 | 2.50  |  | 111  | 70-130 |  |  |  |
| p,m-Xylene                       | 5.50  | 0.0500 | 5.00  |  | 110  | 70-130 |  |  |  |
| Total Xylenes                    | 8.28  | 0.0250 | 7.50  |  | 110  | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.481 |        | 0.500 |  | 96.1 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.518 |        | 0.500 |  | 104  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.485 |        | 0.500 |  | 96.9 | 70-130 |  |  |  |

#### LCS Dup (2225041-BSD1)

Prepared: 06/15/22 Analyzed: 06/15/22

|                                  |       |        |       |  |      |        |      |    |  |
|----------------------------------|-------|--------|-------|--|------|--------|------|----|--|
| Benzene                          | 2.61  | 0.0250 | 2.50  |  | 104  | 70-130 | 2.54 | 23 |  |
| Ethylbenzene                     | 2.57  | 0.0250 | 2.50  |  | 103  | 70-130 | 2.65 | 27 |  |
| Toluene                          | 2.55  | 0.0250 | 2.50  |  | 102  | 70-130 | 2.31 | 24 |  |
| o-Xylene                         | 2.69  | 0.0250 | 2.50  |  | 108  | 70-130 | 3.15 | 27 |  |
| p,m-Xylene                       | 5.29  | 0.0500 | 5.00  |  | 106  | 70-130 | 3.95 | 27 |  |
| Total Xylenes                    | 7.98  | 0.0250 | 7.50  |  | 106  | 70-130 | 3.68 | 27 |  |
| Surrogate: Bromofluorobenzene    | 0.480 |        | 0.500 |  | 96.0 | 70-130 |      |    |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.503 |        | 0.500 |  | 101  | 70-130 |      |    |  |
| Surrogate: Toluene-d8            | 0.481 |        | 0.500 |  | 96.1 | 70-130 |      |    |  |



### QC Summary Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>%<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|---------------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|---------------|--------------------|----------|-------------------|-------|

**Blank (2225041-BLK1)**

Prepared: 06/15/22 Analyzed: 06/15/22

|                                  |       |      |       |  |      |        |  |  |  |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND    | 20.0 |       |  |      |        |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.460 |      | 0.500 |  | 91.9 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.490 |      | 0.500 |  | 98.0 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.470 |      | 0.500 |  | 93.9 | 70-130 |  |  |  |

**LCS (2225041-BS2)**

Prepared: 06/15/22 Analyzed: 06/15/22

|                                  |       |      |       |  |      |        |  |  |  |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 44.1  | 20.0 | 50.0  |  | 88.1 | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.482 |      | 0.500 |  | 96.3 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.478 |      | 0.500 |  | 95.6 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.488 |      | 0.500 |  | 97.5 | 70-130 |  |  |  |

**LCS Dup (2225041-BSD2)**

Prepared: 06/15/22 Analyzed: 06/15/22

|                                  |       |      |       |  |      |        |      |    |  |
|----------------------------------|-------|------|-------|--|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 46.7  | 20.0 | 50.0  |  | 93.4 | 70-130 | 5.78 | 20 |  |
| Surrogate: Bromofluorobenzene    | 0.484 |      | 0.500 |  | 96.7 | 70-130 |      |    |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.486 |      | 0.500 |  | 97.1 | 70-130 |      |    |  |
| Surrogate: Toluene-d8            | 0.487 |      | 0.500 |  | 97.4 | 70-130 |      |    |  |



### QC Summary Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

**Blank (2226003-BLK1)**

Prepared: 06/20/22 Analyzed: 06/21/22

|                                 |      |      |      |  |      |        |  |  |  |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |      |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |      |        |  |  |  |
| Surrogate: n-Nonane             | 46.8 |      | 50.0 |  | 93.6 | 50-200 |  |  |  |

**LCS (2226003-BS1)**

Prepared: 06/20/22 Analyzed: 06/21/22

|                                 |      |      |      |  |      |        |  |  |  |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 482  | 25.0 | 500  |  | 96.4 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 44.7 |      | 50.0 |  | 89.4 | 50-200 |  |  |  |

**Matrix Spike (2226003-MS1)**

Source: E206089-05

Prepared: 06/20/22 Analyzed: 06/21/22

|                                 |      |      |      |    |      |        |  |  |  |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 515  | 25.0 | 500  | ND | 103  | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 46.6 |      | 50.0 |    | 93.3 | 50-200 |  |  |  |

**Matrix Spike Dup (2226003-MSD1)**

Source: E206089-05

Prepared: 06/20/22 Analyzed: 06/21/22

|                                 |      |      |      |    |      |        |      |    |  |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 525  | 25.0 | 500  | ND | 105  | 38-132 | 2.08 | 20 |  |
| Surrogate: n-Nonane             | 46.8 |      | 50.0 |    | 93.5 | 50-200 |      |    |  |



### QC Summary Data

|   |   |   |
|---|---|---|
| Pima Environmental Services-Carlsbad<br>PO Box 247<br>Plains TX, 79355-0247 | Project Name: Boyd X State 10 Battery<br>Project Number: 21068-0001<br>Project Manager: Tom Bynum | <b>Reported:</b><br>6/21/2022 5:58:29PM |
|---|---|---|

#### Anions by EPA 300.0/9056A

Analyst: RAS

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

**Blank (2225043-BLK1)**

Prepared: 06/15/22 Analyzed: 06/16/22

Chloride ND 20.0

**LCS (2225043-BS1)**

Prepared: 06/15/22 Analyzed: 06/16/22

Chloride 273 20.0 250 109 90-110

**Matrix Spike (2225043-MS1)**

Source: E206089-01

Prepared: 06/15/22 Analyzed: 06/16/22

Chloride 1750 20.0 250 1410 134 80-120 M4

**Matrix Spike Dup (2225043-MSD1)**

Source: E206089-01

Prepared: 06/15/22 Analyzed: 06/16/22

Chloride 1910 20.0 250 1410 198 80-120 8.77 20 M4

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



### Definitions and Notes

|                                      |                  |                         |                  |
|--------------------------------------|------------------|-------------------------|------------------|
| Pima Environmental Services-Carlsbad | Project Name:    | Boyd X State 10 Battery |                  |
| PO Box 247                           | Project Number:  | 21068-0001              | <b>Reported:</b> |
| Plains TX, 79355-0247                | Project Manager: | Tom Bynum               | 06/21/22 17:58   |

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



|  |  |  |  |   |  |  |                                     |  |  |                                 |  |
|--|--|--|--|---|--|--|-------------------------------------|--|--|---------------------------------|--|
| Client: Pima Environmental Services<br>Project: <u>Boyd X State 10 Battery</u><br>Project Manager: Tom Bynum<br>Address: 5614 N. Lovington Hwy.<br>City, State, Zip <u>Hobbs, NM, 88240</u><br>Phone: 580-748-1613<br>Email: tom@pimaoil.com<br>Report due by: |  | Bill To<br>Attention: <u>Spur Energy</u><br>Address:<br>City, State, Zip<br>Phone:<br>Email:<br>Pima Project # <u>6-33</u> |  | Lab Use Only<br>Lab WO# <u>E200089</u> Job Number <u>210680001</u><br>Analysis and Method |  |  | TAT<br>1D 2D 3D Standard <u>X</u>   |  |  | EPA Program<br>CWA SDWA<br>RCRA |  |
|  |  |  |  |   |  |  | State<br>NM CO UT AZ TX<br><u>X</u> |  |  |                                 |  |

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX | Remarks |
|--------------|--------------|--------|-------------------|-----------|------------|-----------------|-----------------|--------------|-------------|-------------|----------------|----------|----------|---------|
| 1110         | 6/12/22      | S      | 1                 | ESW1-1'   | 1          |                 |                 |              |             |             |                | X        |          |         |
| 1115         |              |        |                   | ESW1-3'   | 2          |                 |                 |              |             |             |                |          |          |         |
| 1120         |              |        |                   | ESW1-5'   | 3          |                 |                 |              |             |             |                |          |          |         |
| 1125         |              |        |                   | ESW2-1'   | 4          |                 |                 |              |             |             |                |          |          |         |
| 1130         |              |        |                   | ESW2-3'   | 5          |                 |                 |              |             |             |                |          |          |         |
| 1135         |              |        |                   | ESW2-5'   | 6          |                 |                 |              |             |             |                |          |          |         |
| 1140         |              |        |                   | ESW3-1'   | 7          |                 |                 |              |             |             |                |          |          |         |
| 1145         |              |        |                   | ESW3-3'   | 8          |                 |                 |              |             |             |                |          |          |         |
| 1150         |              |        |                   | ESW3-5'   | 9          |                 |                 |              |             |             |                |          |          |         |

Additional Instructions: Bill to Spur - 10016

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) [Signature] Date 6/13/22 Time 6:13am Received by: (Signature) [Signature] Date 6/13/22 Time 1:45

Relinquished by: (Signature) [Signature] Date 6-13-22 Time 4:15P Received by: (Signature) [Signature] Date 6/14/22 Time 13:15

Relinquished by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Lab Use Only  
 Received on ice:  Y  N  
 T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



**Envirotech Analytical Laboratory**

Printed: 6/15/2022 1:53:50PM

**Sample Receipt Checklist (SRC)**

**Instructions:** Please take note of any NO checkmarks.

**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

|         |                                      |                 |                            |                |                |
|---------|--------------------------------------|-----------------|----------------------------|----------------|----------------|
| Client: | Pima Environmental Services-Carlsbad | Date Received:  | 06/14/22 13:15             | Work Order ID: | E206089        |
| Phone:  | (575) 631-6977                       | Date Logged In: | 06/14/22 13:17             | Logged In By:  | Alexa Michaels |
| Email:  | tom@pimaoil.com                      | Due Date:       | 06/20/22 17:00 (4 day TAT) |                |                |

**Chain of Custody (COC)**

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: UPS

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

- 20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

**Sample Preservation**

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Pima Environmental Services

**Appendix F**

Previous NMOCD Rejected

Closure Report



EOG Resources, Inc.  
Artesia Division Office  
104 S. 4<sup>th</sup> Street  
Artesia, N. M. 88210

January 17, 2020

NMOCD District II  
811 S. First St.  
Artesia, NM 88210

Re: Boyd X State #10 Battery  
O-16-19S-25E  
Eddy County, NM  
2RP-

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The report is being submitted accompanying the C-141 Final.

**EOG Resources Inc. requests closure.**

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

Chase Settle  
Rep Safety & Environmental II  
EOG Resources, Inc.

**EOG Resources, Inc.**

**Boyd X State #10 Battery**

**Closure Report**

**O-16-19S-25E**

**Eddy County, NM**

**January 17, 2020**

**2RP-**



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**Tables:**

Table 1: Soil Analytical Data

**Figures:**

Figure 1: Site Map with Sample Points

**Photos**

**Appendices:**

Appendix A: Depth to Groundwater Information

Appendix B: NRCS Soil Classification

Appendix C: 100 Year Floodplain Map

Appendix D: Laboratory Soil Data

Appendix E: Form C-141



**I. Location**

From the intersection of Hwy 285 and Rocking R Red Road (CR 21), head west for 5.9 miles, then take the lease road north and follow main lease road for 1,742 feet, then follow the lease road southeast for 1,881 feet to the location.

**II. Background**

On November 22, 2019, EOG Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 15 B/PW with 12 B/PW recovered, which occurred on November 11, 2019. This release was caused by the failure of a valve on the produced water transfer line. The affected area impacted by the release is approximately 50 feet by 50 feet on the battery pad. A vacuum truck was called to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils. Excavated soils were sent to a NMOCD approved disposal facility during the initial excavation activities. Initial soil sampling was conducted November 18, 2019, after providing notice of sampling to NMOCD and SLO on November 14, 2019. Initial sampling was conducted at four (4) feet below grade surface (bgs), the depth of the release area after the initial excavation process. Horizontal sampling occurred on December 3, 2019, after providing notice of sampling to NMOCD and SLO on November 27, 2019. Laboratory results determined more excavation was needed on the west sidewall. After further excavation of the west sidewall was completed, sampling was again performed on December 11, 2019, with notification sent to NMOCD and SLO on December 9, 2019. All soil samples were sent to a third party laboratory for analysis and laboratory reports are included as Appendix D.

**III. Surface and Ground Water**

Area geology is Cenozoic Quaternary. Based on information from the New Mexico Office of the State Engineer and the United States Geological Survey National Water Information System (USGS) regarding this location (Section 16, T19S-R25E), depth to groundwater was determined to be 112 feet with the nearest water wells being approximately 0.8 mile to the northeast and 0.88 mile to the southeast. The site sits between the 2 water well sites, with the northeast well lying north of the draw and having a groundwater depth of 95 feet. The southeast well lying south of the draw, same as the release site, has a groundwater depth of 130 feet. Besides the aquifer trend of groundwater being deeper moving south across the draw, elevation for the site and water wells was also evaluated. The release site has an elevation of 3,501 feet above sea level, the water well to the northeast of the site has an elevation of 3,485 feet above sea level, and the water well to the southeast of the site has an elevation of 3,477 feet above sea level. The release site has the highest elevation point of the three, and the southeast water well is the lowest in elevation, but also has groundwater 35 feet deeper than the northeast water well. The elevation differences and trend for groundwater to be found deeper in depth to the south, leads to the determination of approximately 112 feet to groundwater beneath the release site.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being Brantley Lake at approximately 6.7 miles away. The site is located outside of critical karst areas and outside of the 100-year floodplain.

**IV. NMOCD Assessment Criteria**

The site assessment criteria is as follows:

- Depth to ground water > 100'
- Wellhead Protection Area > 1000'
- Distance to surface water body > 1000'



Based on the assessment criteria, the NMOCD established RRALs for this site are:

|           |              |
|-----------|--------------|
| Benzene   | 10 mg/kg     |
| BTEX      | 50 mg/kg     |
| TPH       | 2,500 mg/kg  |
| GRO + DRO | 1,000 mg/kg  |
| Chlorides | 20,000 mg/kg |

**V. Soils**

USDA Natural Resources Conservation Service (NRCS) classifies soil in the area as Reagan-Upton, with 0-8% slopes.

**VII. Remediation Work**

Initial excavation of the site began on November 11, 2019. Activities included the removal of saturated and visibly impacted soils from the surface to a depth of four (4) feet bgs. Once the site was excavated to a depth of four (4) feet and horizontal edges were presumed to be found, sampling activities were conducted. Horizontal sampling activities determined that further excavation was needed along the west sidewall of the excavation. The west sidewall was excavated another two feet horizontally to a depth of four feet, and then sampling activities were conducted again with results confirming that the sidewall was now below the 600 mg/kg standard set forth in 19.15.29.13 NMAC. With the excavation at four feet bgs, soil sample laboratory results confirmed that all vertical sample results had achieved the Table 1 standards, and horizontal sample results confirmed that all sidewalls were within the guidelines for 19.15.29.13. All horizontal samples were collected by way of 5-point composite samples, and no sample representing more than 200 square feet.

All excavated soils were hauled to an NMOCD approved facility for disposal and the backfill for the site will consist of locally sourced, clean, non-contaminated soils of a similar type as was removed. The impacted portion of the pad will be downsized and reclaimed with the seed mix consisting of *Bouteloua curtipendula* (5 lbs/pls/ac), *Bouteloua gracilis* (3 lbs/pls/ac), *Leptochloa dubia* (2 lbs/pls/ac), and *Setaria leucopila* (1 lb/pls/ac), reseeding will occur the next available planting season in July of 2020.

The C-141 Final is included with this closure report, EOG Resources, Inc. requests closure.



# Table 1

## Soil Analytical Data

## Soil Analytical Data

| Sample ID | Depth (ft. bgs) | Date     | Benzene | Toluene | Ethylbenzene | Xylenes | BTEX   | TPH (GRO) | TPH (DRO) | TPH EXT DRO | Total TPH | Chlorides |
|-----------|-----------------|----------|---------|---------|--------------|---------|--------|-----------|-----------|-------------|-----------|-----------|
| V1-4'     | 4               | 11/18/19 | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 3800      |
| V2-4'     | 4               | 11/18/19 | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 19900     |
| V3-4'     | 4               | 11/18/19 | 0.091   | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 10400     |
| V4-4'     | 4               | 11/18/19 | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 16000     |
| V5-4'     | 4               | 11/18/19 | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 1230      |
| NH        | 0-4             | 12/3/19  | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 592       |
| EH        | 0-4             | 12/3/19  | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 80        |
| SH        | 0-4             | 12/3/19  | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 256       |
| WH        | 0-4             | 12/3/19  | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | 37.4      | <10.0       | 37.4      | 2640      |
| WH2       | 0-4             | 12/11/19 | <0.050  | <0.050  | <0.050       | <0.150  | <0.300 | <10.0     | <10.0     | <10.0       | <10.0     | 336       |

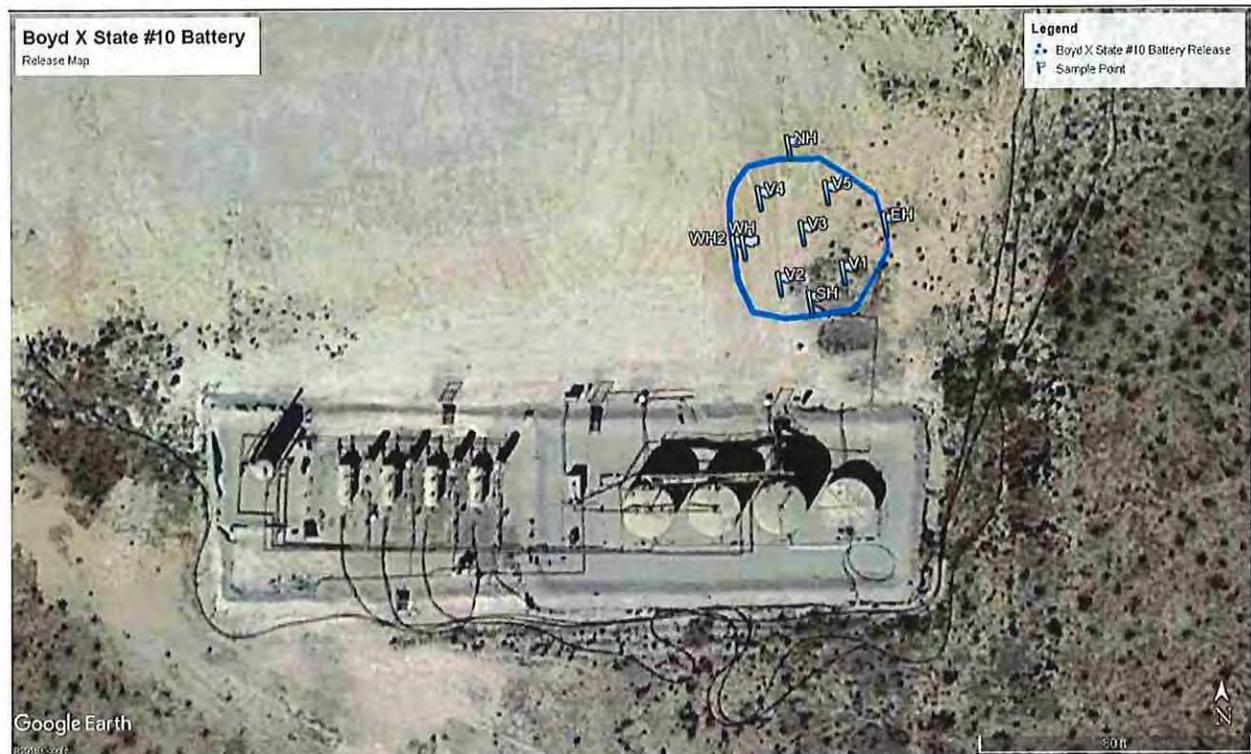
# Figure 1

## Site Map with Sample Points

Boyd X State #10 Battery  
Closure Report  
2RP-



January 17, 2020



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# Photos





# Appendix A

## Depth to Groundwater Information



# OSE POD Locations

Points of Diversion visible at 1:19,000 with 1,000 features per view

# Water Rights Look Up

Measurement

|

Measurement Result

Clear

Press CTRL to enable snapping



1:18055

0.3mi

-104.483 33.650 Degrees

All Rights Reserved



# 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        |
| RA 05900 |            | 2 2 16     | 19S | 25E |     | 548442 | 3614424* |

Driller License: 460 Driller Company: JENKINS BROTHERS DRILLING

Driller Name:

|                              |                               |                         |
|------------------------------|-------------------------------|-------------------------|
| Drill Start Date: 03/18/1974 | Drill Finish Date: 03/19/1974 | Plug Date:              |
| Log File Date: 03/25/1974    | PCW Rcv Date:                 | Source: Shallow         |
| Pump Type:                   | Pipe Discharge Size:          | Estimated Yield: 30 GPM |
| Casing Size: 7.00            | Depth Well: 185 feet          | Depth Water: 95 feet    |

| Water Bearing Stratifications: | Top | Bottom | Description                   |
|--------------------------------|-----|--------|-------------------------------|
|                                | 118 | 122    | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
|                      | 108 | 158    |

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/14/20 1:34 PM

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        |
| RA 02909 |            | 1          | 3   | 22  | 19S 25E | 548864 | 3611989* |

|                                     |                                      |                              |  |
|-------------------------------------|--------------------------------------|------------------------------|--|
| <b>Driller License:</b>             | <b>Driller Company:</b>              |                              |  |
| <b>Driller Name:</b> A.F. SMITH     |                                      |                              |  |
| <b>Drill Start Date:</b> 06/26/1952 | <b>Drill Finish Date:</b> 07/05/1952 | <b>Plug Date:</b>            |  |
| <b>Log File Date:</b> 08/11/1952    | <b>PCW Rcv Date:</b>                 | <b>Source:</b> Shallow       |  |
| <b>Pump Type:</b>                   | <b>Pipe Discharge Size:</b>          | <b>Estimated Yield:</b>      |  |
| <b>Casing Size:</b> 8.63            | <b>Depth Well:</b> 188 feet          | <b>Depth Water:</b> 130 feet |  |

| Water Bearing Stratifications: |        |                               |  |
|--------------------------------|--------|-------------------------------|--|
| Top                            | Bottom | Description                   |  |
| 120                            | 130    | Sandstone/Gravel/Conglomerate |  |

\*UTM location was derived from PLSS - see Help

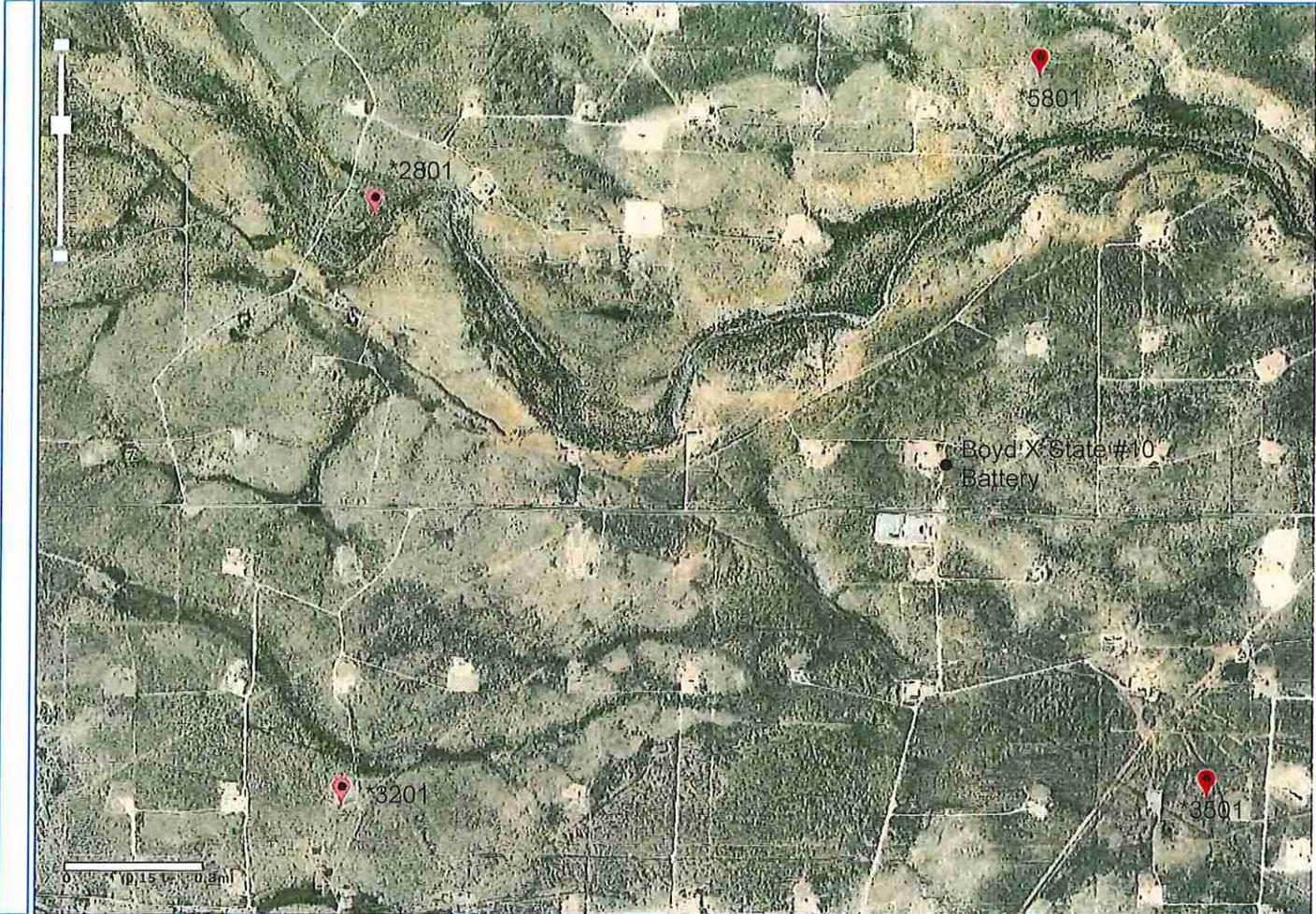
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/14/20 1:34 PM

POINT OF DIVERSION SUMMARY



National Water Information System: Map View





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### Search Results -- 1 sites found

site\_no list = 

- 323948104302801

Minimum number of levels = 1

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### USGS 323948104302801 19S.25E.17.321212

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

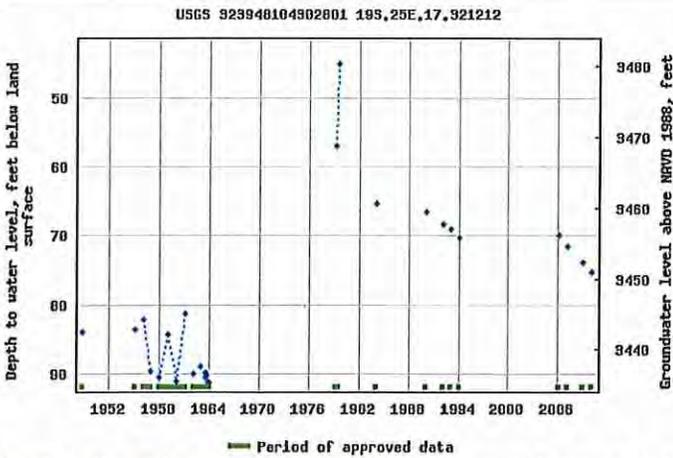
Latitude 32°39'48", Longitude 104°30'28" NAD27

Land-surface elevation 3,526 feet above NAVD88

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |



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- 324004104285801

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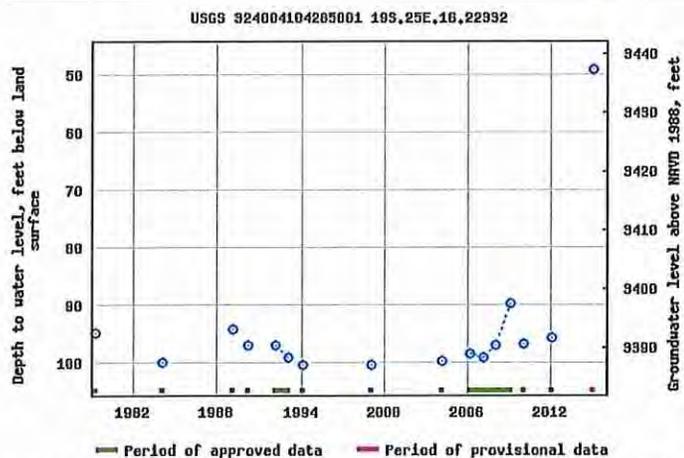
Latitude 32°40'04", Longitude 104°28'58" NAD27

Land-surface elevation 3,487 feet above NAVD88

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

|                                    |
|------------------------------------|
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| <a href="#">Tab-separated data</a> |
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• 323841104303201

Minimum number of levels = 1

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USGS 323841104303201 19S.25E.20.341112

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'41", Longitude 104°30'32" NAD27

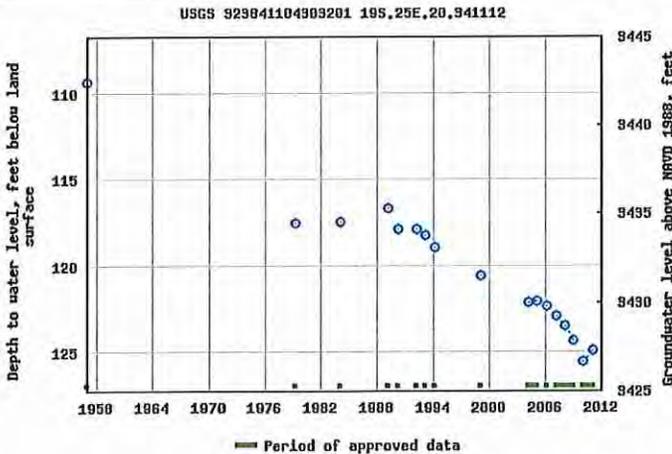
Land-surface elevation 3,552 feet above NAVD88

The depth of the well is 130 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |



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• 323842104283501

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USGS 323842104283501 19S.25E.22.31430

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'42", Longitude 104°28'35" NAD27

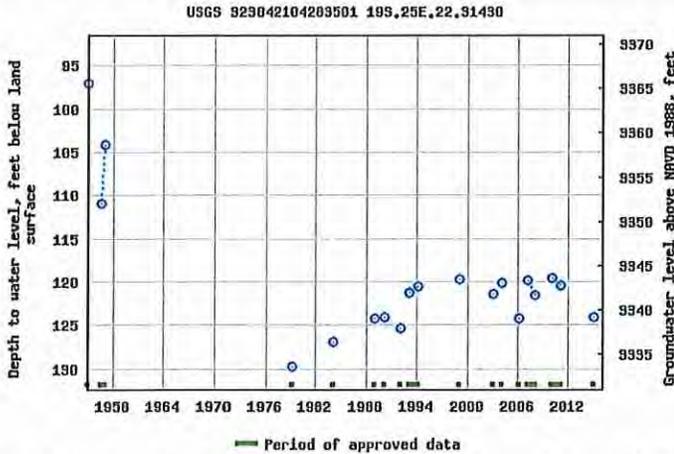
Land-surface elevation 3,463 feet above NAVD88

The depth of the well is 180 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |



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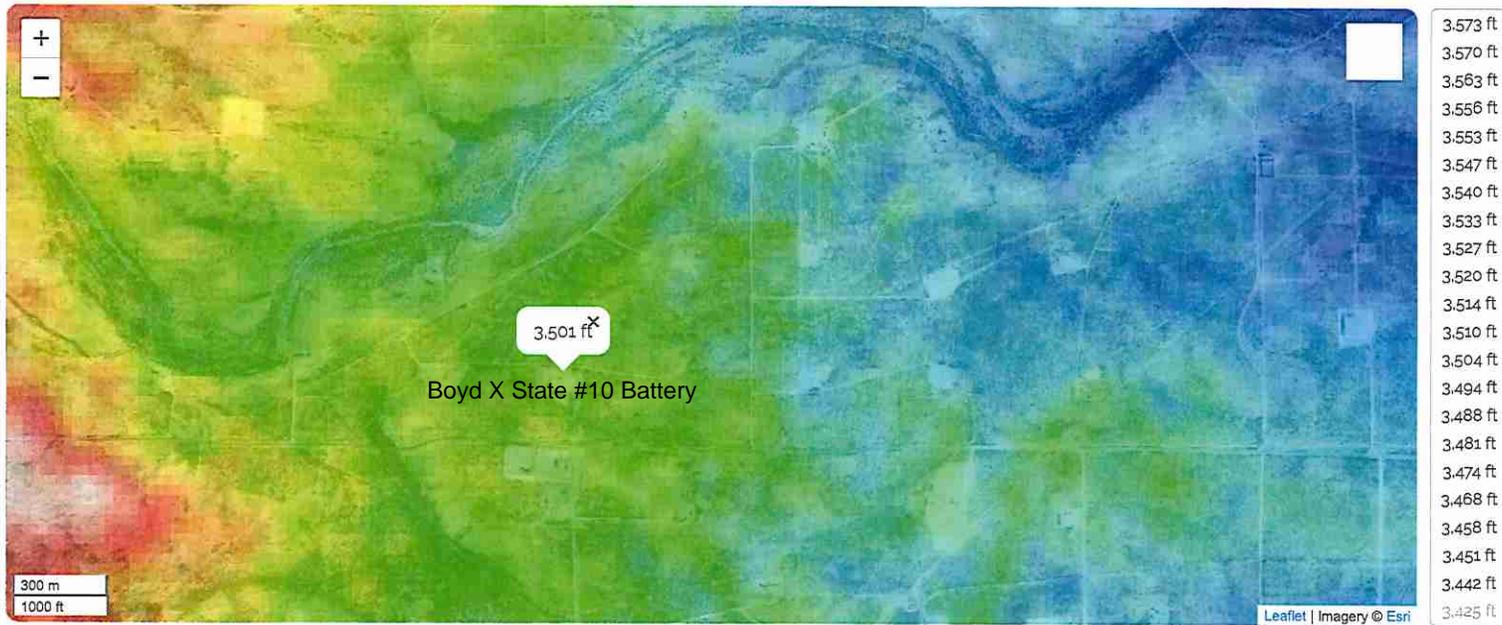
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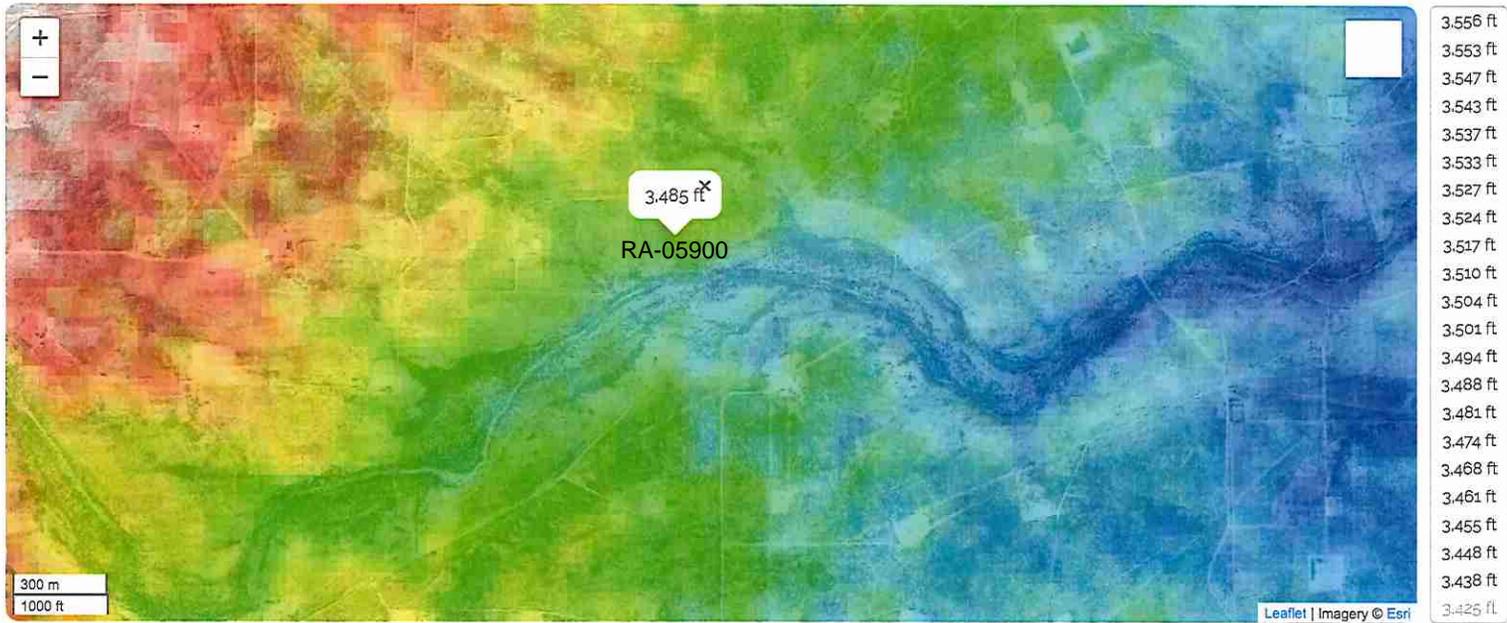
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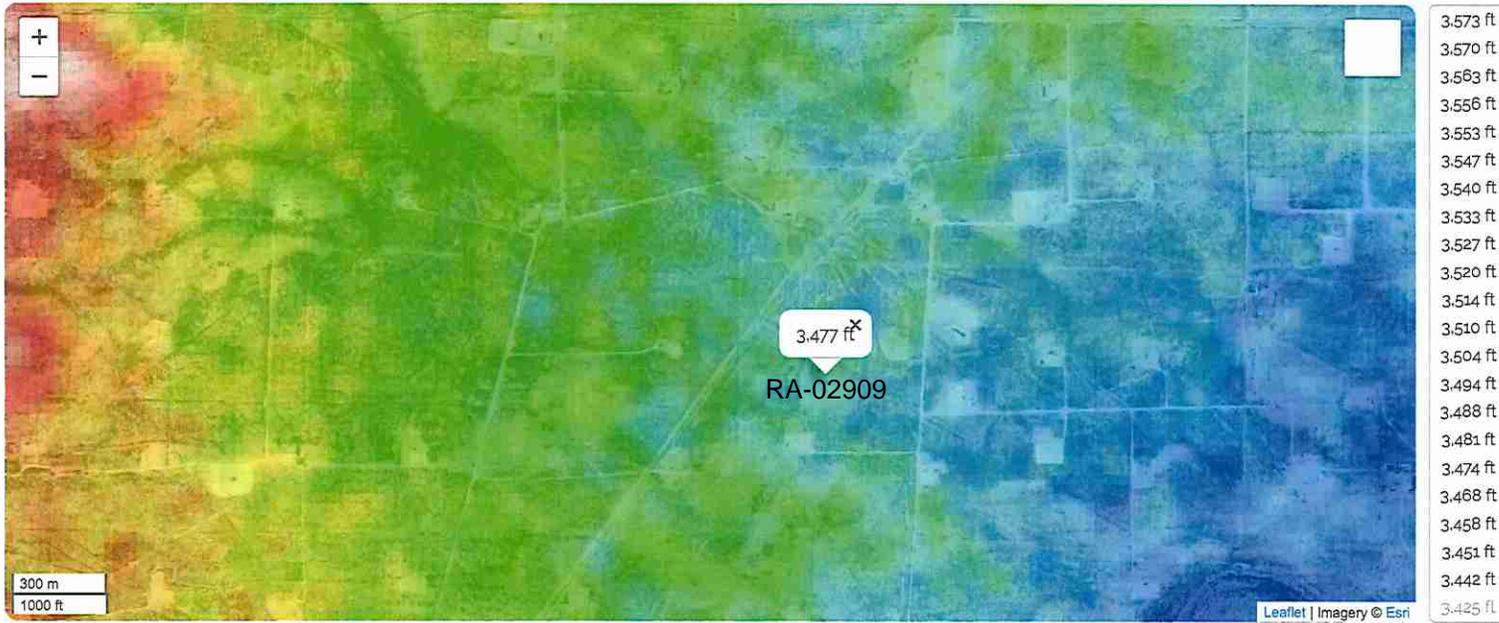
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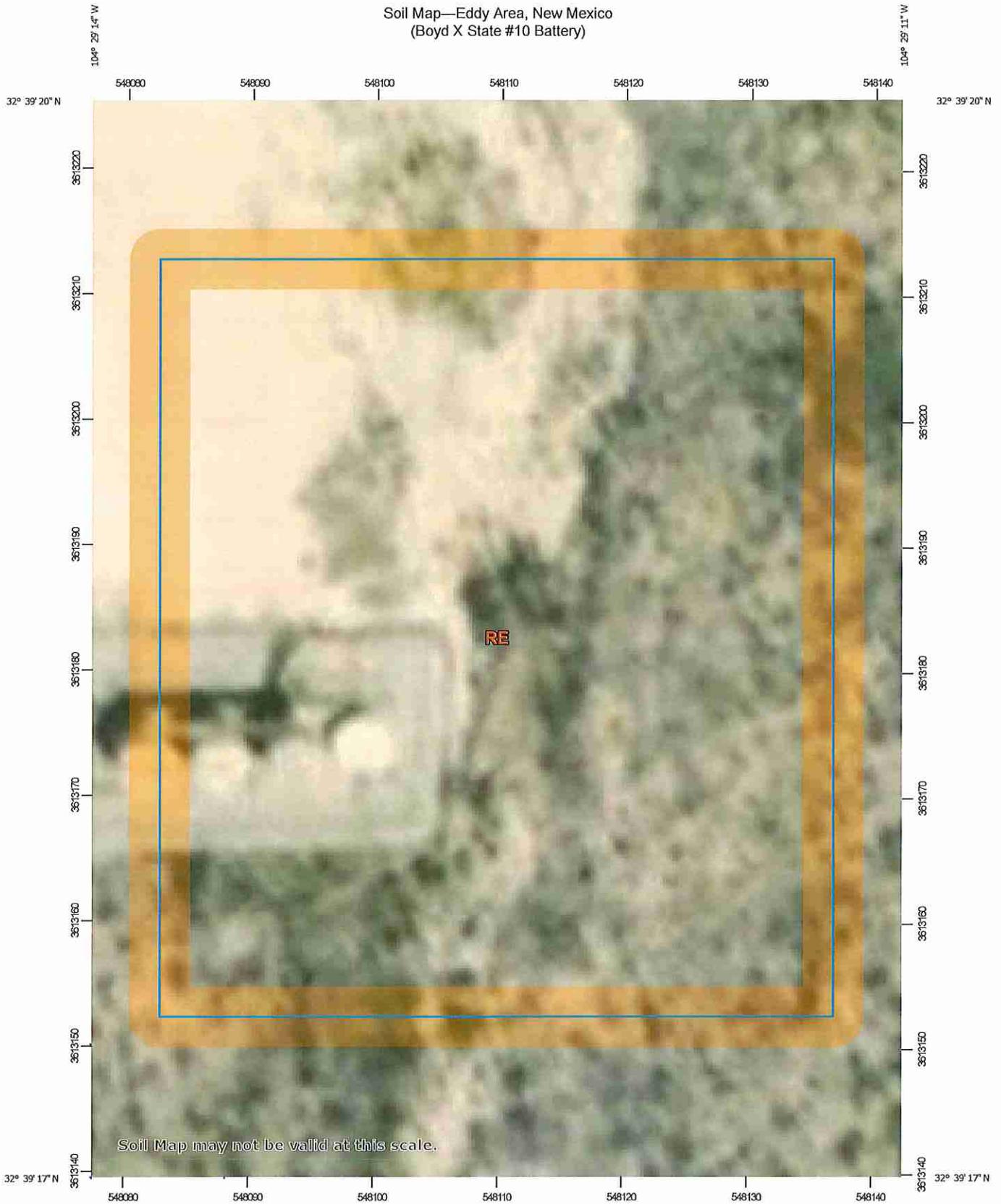


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# Appendix B

## NRCS Soil Classification

### Soil Map—Eddy Area, New Mexico (Boyd X State #10 Battery)



Soil Map may not be valid at this scale.

Map Scale: 1:419 if printed on A portrait (8.5" x 11") sheet.

0 5 10 20 30 Meters

0 20 40 80 120 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Soil Map—Eddy Area, New Mexico  
(Boyd X State #10 Battery)

| MAP LEGEND   |   | MAP INFORMATION  |
|--|---|--|
| <p><b>Area of Interest (AOI)</b></p> <p> Area of Interest (AOI)</p> <p><b>Soils</b></p> <p> Soil Map Unit Polygons</p> <p> Soil Map Unit Lines</p> <p> Soil Map Unit Points</p> <p><b>Special Point Features</b></p> <p> Blowout</p> <p> Borrow Pit</p> <p> Clay Spot</p> <p> Closed Depression</p> <p> Gravel Pit</p> <p> Gravelly Spot</p> <p> Landfill</p> <p> Lava Flow</p> <p> Marsh or swamp</p> <p> Mine or Quarry</p> <p> Miscellaneous Water</p> <p> Perennial Water</p> <p> Rock Outcrop</p> <p> Saline Spot</p> <p> Sandy Spot</p> <p> Severely Eroded Spot</p> <p> Sinkhole</p> <p> Slide or Slip</p> <p> Sodic Spot</p> | <p> Spoil Area</p> <p> Stony Spot</p> <p> Very Stony Spot</p> <p> Wet Spot</p> <p> Other</p> <p> Special Line Features</p> <p><b>Water Features</b></p> <p> Streams and Canals</p> <p><b>Transportation</b></p> <p> Rails</p> <p> Interstate Highways</p> <p> US Routes</p> <p> Major Roads</p> <p> Local Roads</p> <p><b>Background</b></p> <p> Aerial Photography</p> | <p>The soil surveys that comprise your AOI were mapped at 1:20,000.</p> <p><b>Warning: Soil Map may not be valid at this scale.</b></p> <p>Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.</p> <p>Please rely on the bar scale on each map sheet for map measurements.</p> <p>Source of Map: Natural Resources Conservation Service<br/>Web Soil Survey URL:<br/>Coordinate System: Web Mercator (EPSG:3857)</p> <p>Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: Eddy Area, New Mexico<br/>Survey Area Data: Version 15, Sep 15, 2019</p> <p>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</p> <p>Date(s) aerial images were photographed: Nov 30, 2015—Dec 15, 2017</p> <p>The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.</p> |

### Map Unit Legend

| Map Unit Symbol                    | Map Unit Name                                   | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| RE                                 | Reagan-Upton association, 0 to 9 percent slopes | 0.8          | 100.0%         |
| <b>Totals for Area of Interest</b> |   | <b>0.8</b>   | <b>100.0%</b>  |

# Appendix C

## 100 Year Floodplain Map



# FEMA Flood Map Service Center: Search By Address

Navigation

Search

Languages

- MSC Home (portal)
- MSC Search by Address (portal/search)
- MSC Search All Products (portal/advanceSearch)
- MSC Products and Tools (portal/resources/productsandtools)
  - Hazus (portal/resources/hazus)
  - LOMC Batch Files (portal/resources/lomc)
  - Product Availability (portal/productAvailability)
- MSC Frequently Asked Questions (FAQs) (portal/resources/faq)
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Enter an address, place, or coordinates: ?

Eddy County New Mexico

Search

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Whether you are in a high risk zone or not, you may need flood insurance (https://www.fema.gov/national-flood-insurance-program) because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk, you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood Insurance Program's flood insurance policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built.

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DYNAMIC MAP



MAP IMAGE



(https://msc.fema.gov/portal/downloadProduct?)

filepath=/35/PP/Firm/35015C0550D.tif&productTypeID=FINAL\_PRODUCT&productSubTypeID=FIRM\_PANEL&productID=35015C0550D)

Changes to this FIRM ?

- Revisions (0)
- Amendments (0)
- Revalidations (0)

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Official website of the Department of Homeland Security

# Appendix D

## Laboratory Soil Data



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

November 25, 2019

CHASE SETTLE  
EOG Y RESOURCES, INC  
105 SOUTH 4TH STREET  
ARTESIA, NM 88210

RE: BOYD X STATE #10 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/18/19 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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,

Mike Snyder For Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 11/18/2019               | Sampling Date:      | 11/18/2019     |
| Reported:         | 11/25/2019               | Sampling Type:      | Soil           |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN                |                     |                |

**Sample ID: V 1 - 4' (H903914-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.79 | 89.3       | 2.00          | 7.20 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.77 | 88.7       | 2.00          | 7.07 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/20/2019 | ND              | 1.80 | 90.2       | 2.00          | 7.55 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/20/2019 | ND              | 5.44 | 90.6       | 6.00          | 7.98 |           |  |
| Total BTEX     | <0.300 | 0.300           | 11/20/2019 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 3800   | 16.0            | 11/22/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 11/20/2019 | ND              | 199 | 99.7       | 200           | 1.53 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/20/2019 | ND              | 198 | 98.9       | 200           | 2.26 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/20/2019 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 11/18/2019               | Sampling Date:      | 11/18/2019     |
| Reported:         | 11/25/2019               | Sampling Type:      | Soil           |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN                |                     |                |

**Sample ID: V 2 - 4' (H903914-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.79 | 89.3       | 2.00          | 7.20 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.77 | 88.7       | 2.00          | 7.07 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/20/2019 | ND              | 1.80 | 90.2       | 2.00          | 7.55 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/20/2019 | ND              | 5.44 | 90.6       | 6.00          | 7.98 |           |  |
| Total BTEX     | <0.300 | 0.300           | 11/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PIL) 99.6 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 19900  | 16.0            | 11/22/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 11/20/2019 | ND              | 199 | 99.7       | 200           | 1.53 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/20/2019 | ND              | 198 | 98.9       | 200           | 2.26 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/20/2019 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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\* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 11/18/2019               | Sampling Date:      | 11/18/2019     |
| Reported:         | 11/25/2019               | Sampling Type:      | Soil           |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN                |                     |                |

**Sample ID: V 3 - 4' (H903914-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | 0.091  | 0.050           | 11/20/2019 | ND              | 1.79 | 89.3       | 2.00          | 7.20 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.77 | 88.7       | 2.00          | 7.07 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/20/2019 | ND              | 1.80 | 90.2       | 2.00          | 7.55 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/20/2019 | ND              | 5.44 | 90.6       | 6.00          | 7.98 |           |  |
| Total BTEX     | <0.300 | 0.300           | 11/20/2019 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 10400  | 16.0            | 11/22/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 11/20/2019 | ND              | 199 | 99.7       | 200           | 1.53 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/20/2019 | ND              | 198 | 98.9       | 200           | 2.26 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/20/2019 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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\* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 11/18/2019               | Sampling Date:      | 11/18/2019     |
| Reported:         | 11/25/2019               | Sampling Type:      | Soil           |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN                |                     |                |

**Sample ID: V 4 - 4' (H903914-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.79 | 89.3       | 2.00          | 7.20 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.77 | 88.7       | 2.00          | 7.07 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/20/2019 | ND              | 1.80 | 90.2       | 2.00          | 7.55 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/20/2019 | ND              | 5.44 | 90.6       | 6.00          | 7.98 |           |  |
| Total BTEX     | <0.300 | 0.300           | 11/20/2019 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 16000  | 16.0            | 11/22/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 11/20/2019 | ND              | 199 | 99.7       | 200           | 1.53 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/20/2019 | ND              | 198 | 98.9       | 200           | 2.26 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/20/2019 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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\* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 11/18/2019               | Sampling Date:      | 11/18/2019     |
| Reported:         | 11/25/2019               | Sampling Type:      | Soil           |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN                |                     |                |

**Sample ID: V 5 - 4' (H903914-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.79 | 89.3       | 2.00          | 7.20 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/20/2019 | ND              | 1.77 | 88.7       | 2.00          | 7.07 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/20/2019 | ND              | 1.80 | 90.2       | 2.00          | 7.55 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/20/2019 | ND              | 5.44 | 90.6       | 6.00          | 7.98 |           |  |
| Total BTEX     | <0.300 | 0.300           | 11/20/2019 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1230   | 16.0            | 11/22/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 11/19/2019 | ND              | 207 | 103        | 200           | 1.56 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/19/2019 | ND              | 201 | 101        | 200           | 4.46 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/19/2019 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 79.5 % 37.6-147

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\*=Accredited Analyte

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Mike Snyder For 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.
- 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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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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December 06, 2019

CHASE SETTLE  
EOG Y RESOURCES, INC  
105 SOUTH 4TH STREET  
ARTESIA, NM 88210

RE: BOYD X STATE #10 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/19 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/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,

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |               |
|-------------------|--------------------------|---------------------|---------------|
| Received:         | 12/04/2019               | Sampling Date:      | 12/03/2019    |
| Reported:         | 12/06/2019               | Sampling Type:      | Soil          |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN               | Sample Received By: | Jodi Henson   |
| Project Location: | BOYD X STATE #10 BATTERY |                     |               |

**Sample ID: NH (H904055-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/04/2019 | ND              | 1.90 | 94.8       | 2.00          | 0.329 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 0.540 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/04/2019 | ND              | 1.88 | 94.0       | 2.00          | 0.557 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/04/2019 | ND              | 5.68 | 94.7       | 6.00          | 0.463 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/04/2019 | ND              |      |            |               |       |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 592    | 16.0            | 12/05/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 12/04/2019 | ND              | 198 | 99.2       | 200           | 3.17  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/04/2019 | ND              | 203 | 101        | 200           | 0.148 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/04/2019 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |               |
|-------------------|--------------------------|---------------------|---------------|
| Received:         | 12/04/2019               | Sampling Date:      | 12/03/2019    |
| Reported:         | 12/06/2019               | Sampling Type:      | Soil          |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN               | Sample Received By: | Jodi Henson   |
| Project Location: | BOYD X STATE #10 BATTERY |                     |               |

**Sample ID: EH (H904055-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/04/2019 | ND              | 1.90 | 94.8       | 2.00          | 0.329 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 0.540 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/04/2019 | ND              | 1.88 | 94.0       | 2.00          | 0.557 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/04/2019 | ND              | 5.68 | 94.7       | 6.00          | 0.463 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/04/2019 | ND              |      |            |               |       |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 80.0   | 16.0            | 12/05/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 12/04/2019 | ND              | 198 | 99.2       | 200           | 3.17  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/04/2019 | ND              | 203 | 101        | 200           | 0.148 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/04/2019 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |               |
|-------------------|--------------------------|---------------------|---------------|
| Received:         | 12/04/2019               | Sampling Date:      | 12/03/2019    |
| Reported:         | 12/06/2019               | Sampling Type:      | Soil          |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN               | Sample Received By: | Jodi Henson   |
| Project Location: | BOYD X STATE #10 BATTERY |                     |               |

**Sample ID: SH (H904055-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/04/2019 | ND              | 1.90 | 94.8       | 2.00          | 0.329 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 0.540 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/04/2019 | ND              | 1.88 | 94.0       | 2.00          | 0.557 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/04/2019 | ND              | 5.68 | 94.7       | 6.00          | 0.463 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/04/2019 | ND              |      |            |               |       |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 256    | 16.0            | 12/05/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 12/04/2019 | ND              | 198 | 99.2       | 200           | 3.17  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/04/2019 | ND              | 203 | 101        | 200           | 0.148 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/04/2019 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 99.9 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |               |
|-------------------|--------------------------|---------------------|---------------|
| Received:         | 12/04/2019               | Sampling Date:      | 12/03/2019    |
| Reported:         | 12/06/2019               | Sampling Type:      | Soil          |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN               | Sample Received By: | Jodi Henson   |
| Project Location: | BOYD X STATE #10 BATTERY |                     |               |

**Sample ID: WH (H904055-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/04/2019 | ND              | 1.90 | 94.8       | 2.00          | 0.329 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 0.540 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/04/2019 | ND              | 1.88 | 94.0       | 2.00          | 0.557 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/04/2019 | ND              | 5.68 | 94.7       | 6.00          | 0.463 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/04/2019 | ND              |      |            |               |       |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 2640   | 16.0            | 12/05/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 12/04/2019 | ND              | 198 | 99.2       | 200           | 3.17  |           |  |
| DRO >C10-C28*    | 37.4   | 10.0            | 12/04/2019 | ND              | 203 | 101        | 200           | 0.148 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/04/2019 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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

December 17, 2019

CHASE SETTLE  
EOG Y RESOURCES, INC  
105 SOUTH 4TH STREET  
ARTESIA, NM 88210

RE: BOYD X STATE #10 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/11/19 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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,

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

EOG Y RESOURCES, INC  
 CHASE SETTLE  
 105 SOUTH 4TH STREET  
 ARTESIA NM, 88210  
 Fax To: (575) 748-4131

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 12/11/2019               | Sampling Date:      | 12/11/2019     |
| Reported:         | 12/17/2019               | Sampling Type:      | Soil           |
| Project Name:     | BOYD X STATE #10 BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN               | Sample Received By: | Celey D. Keene |
| Project Location: | BOYD X STATE #10 BATTERY |                     |                |

**Sample ID: WH 2 (H904148-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/12/2019 | ND              | 2.07 | 103        | 2.00          | 1.27  |           |  |
| Toluene*       | <0.050 | 0.050           | 12/12/2019 | ND              | 2.09 | 105        | 2.00          | 0.239 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/12/2019 | ND              | 2.03 | 101        | 2.00          | 0.648 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/12/2019 | ND              | 5.87 | 97.9       | 6.00          | 0.636 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/12/2019 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PIE) 99.8 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 336    | 16.0            | 12/12/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 12/12/2019 | ND              | 164 | 82.1       | 200           | 13.7 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/12/2019 | ND              | 174 | 87.2       | 200           | 17.9 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/12/2019 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



# Appendix E

## Form C-141

### (Initial and Closure)

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

### Release Notification

#### Responsible Party

|                         |   |                              |              |
|-------------------------|---|------------------------------|--------------|
| Responsible Party       | EOG Resources, Inc.                     | OGRID                        | 7377         |
| Contact Name            | Chase Settle                            | Contact Telephone            | 575-748-1471 |
| Contact email           | Chase_Settle@eogresources.com           | Incident # (assigned by OCD) |              |
| Contact mailing address | 104 South 4th Street, Artesia, NM 88210 |                              |              |

#### Location of Release Source

Latitude 32.65530 Longitude -104.48707  
*(NAD 83 in decimal degrees to 5 decimal places)*

|                         |                          |                      |         |
|-------------------------|--------------------------|----------------------|---------|
| Site Name               | Boyd X State #10 Battery | Site Type            | Battery |
| Date Release Discovered | 11/11/2019               | API# (if applicable) |         |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| O           | 16      | 19S      | 25E   | Eddy   |

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

#### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|  |  |   |
|--|--|---|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)   | Volume Recovered (bbls)   |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 15  | Volume Recovered (bbls) 12  |
|  | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)   | Volume Recovered (bbls)   |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)  | Volume Recovered (Mcf)  |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                             |

Cause of Release  
Valve failure occurred on a produced water transfer line causing the release.

State of New Mexico  
Oil Conservation Division

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

### Initial Response

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

|  |
|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br><br>   |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |
| Printed Name: <u>Chase Settle</u> Title: <u>Safety and Environmental Rep II</u><br>Signature: <u><i>Chase Settle</i></u> Date: <u>11/21/2019</u><br>email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-1471</u>   |
| <b>OCD Only</b><br><br>Received by: _____ Date: _____  |

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| Incident ID    |  |
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| 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?   | 112 (ft bgs)  |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

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Printed Name: Chase Settle Title: Rep Safety and Environmental II

Signature: *Chase Settle* Date: 01/15/2020

email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |  |
|----------------|--|
| Incident ID    |  |
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## Remediation Plan

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

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Approved     
 Approved with Attached Conditions of Approval     
 Denied     
 Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
|----------------|---------------|
| Incident ID    | nCS2002754182 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

### Closure

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety and Environmental II  
 Signature: *Chase Settle* Date: 01/15/2020  
 email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: Cristina Eads Date: 03/02/2020

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

Closure Approved by: Denied Date: 03/02/2020  
 Printed Name: Cristina Eads Title: Environmental Specialist

**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 123762

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>Spur Energy Partners LLC<br>9655 Katy Freeway<br>Houston, TX 77024 | OGRID:<br>328947  |
|   | Action Number:<br>123762                                  |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| jharimon   | None      | 11/8/2022      |