

Incident ID	NAPP2219550049
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>63</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <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.

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

Printed Name: Dale Woodall Title: EHS Professional  
Signature: Dale Woodall Date: 11/9/2022  
email: dale.woodall@dvN.com Telephone: 405-318-4697

**OCD Only**

Received by: Jocelyn Harimon Date: 11/09/2022

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## Closure

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

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

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

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

Printed Name: Dale Woodall Title: EHS Professional  
Signature: Dale Woodall Date: 11/9/2022  
email: dale.woodall@dv.com Telephone: 405-318-4697

**OCD Only**

Received by: Jocelyn Harimon Date: 11/09/2022

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: \_\_\_\_\_

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



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

August 11, 2022

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

**Re: Site Assessment and Closure Report**  
**Boomslang 14 23 Federal 001H/004H**  
**API No. 30-025-42920**  
**GPS: Latitude 32.22432 Longitude -103.53967**  
**ULSTR -- B, 14, T24S, R33E**  
**Lea County, NM**  
**NMOCD Ref. No. NAPP2219550049**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment and submit this closure report for a produced water release that occurred at the Boomslang 14 23 Federal 001H/004H (Boomslang). The initial C-141 was submitted on August 10, 2022 (Appendix C). This incident was assigned Incident ID NAPP2219550049 by the New Mexico Oil Conservation Division (NMOCD).

#### Site Characterization

The Boomslang is located approximately twenty-one (21) miles northwest of Jal, NM. This spill site is in Unit B, Section 14, Township 24S, Range 33E, Latitude 32.22432 Longitude -103.53967, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont deposits. Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of 2 different types: Pyote and Maljamar fine sands, and Berino-Cacique fine sandy loams association according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). Both have 0 to 3 percent slopes and both have drainage courses that are well drained. There is a low potential for karst geology to be present around the Boomslang (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 420 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 63 feet BGS. The closest waterway is Bell Lake located approximately 2.11 miles to the west 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' (Lack of GW data)	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**

**NAPP2219550049:** On July 14, 2022, while Sunset Well Service was downsizing well pad, Sunset struck a white poly flex steel line buried with silt. The identified line belongs to COG/Conoco Philips and the line was shut in. COG/Conoco Philips was contacted and come to the stie, they are going to get a crew to repair the line and invoice Sunset Well Service for the repair. Devon had a vacuum truck remove the standing fluid. The released fluids were calculated to be approximately 91 barrels (bbls) of produced water. Vacuum trucks were able to recover approximately 90 bbls of produced water recovered.

**Site Assessment and Soil Sampling Results**

On July 18, 2022, Sunset Well Service personnel and equipment were already on site downsizing the well pad, they focused energy on removing the contaminated soil from the spill area.

On July 19, 2022, Pima personnel mobilized to the site to assess the area and collect samples of the excavation. We collected samples from the bottom and sidewalls of the excavation to assess how much more contamination needed to be removed. The results of this sampling event can be found in the following table. A Site Map can be found in Figure 4.

7-19-22 Soil Sample Results

<b>NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is &lt;50')</b>								
<b>DEVON ENERGY - BOOMSLANG 14 23 FEDERAL 1H-4H</b>								
<b>Sample Date: 7/19/22</b>		<b>NM Approved Laboratory Results</b>						
<b>Sample ID</b>	<b>Depth (BGS)</b>	<b>BTEX mg/kg</b>	<b>Benzene mg/kg</b>	<b>GRO mg/kg</b>	<b>DRO mg/kg</b>	<b>MRO mg/kg</b>	<b>Total TPH mg/kg</b>	<b>Cl mg/kg</b>
NSW	3'	ND	ND	ND	ND	ND	0	ND
ESW	3'	ND	ND	ND	ND	ND	0	ND
WSW	3'	ND	ND	ND	ND	ND	0	ND
SSW	3'	ND	ND	ND	ND	ND	0	ND
S-1	3'	ND	ND	ND	ND	ND	0	ND
S-2	3'	ND	ND	ND	ND	ND	0	ND
S-3	3'	ND	ND	ND	ND	ND	0	ND
S-4	3'	ND	ND	ND	ND	ND	0	ND
BG-1	6"	ND	ND	ND	ND	ND	0	ND
BG-2	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottom and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was sufficiently removed then transported to the Northern Delaware Basin Landfill, an NMOCD approved disposal site. The excavation will be backfilled with clean like material, machine compacted and contoured to match the surrounding terrain as part of Sunset's original project of downsizing the well pad. See Appendix D for Photographic Documentation.

**Closure Request**

After careful review, Pima requests that this incident, NAPP2219550049 be closed. Devon 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 Gio Gomez at 806-782-1151 or [gio@pimaoil.com](mailto:gio@pimaoil.com).

Respectfully,

*Gio Gomez*

Gio Gomez  
Project Manager  
Pima Environmental Services, LLC

**Attachments**

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Pima Environmental Services

**Figures:**

- 1 - Location Map
- 2 - Topographic Map
- 3 - Karst Map
- 4 - Site Map

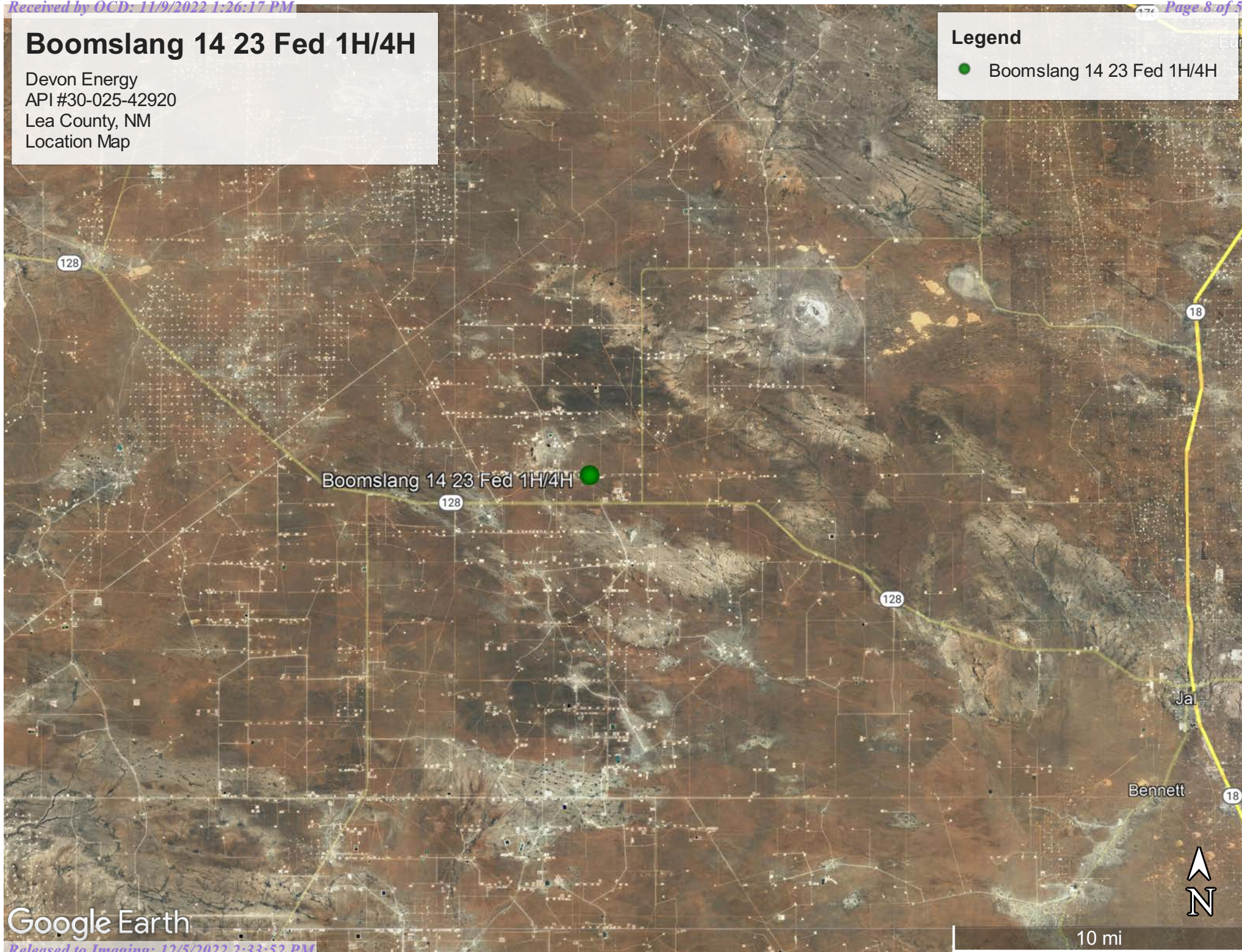


# Boomslang 14 23 Fed 1H/4H

Devon Energy  
API #30-025-42920  
Lea County, NM  
Location Map

## Legend

● Boomslang 14 23 Fed 1H/4H



Google Earth

10 mi

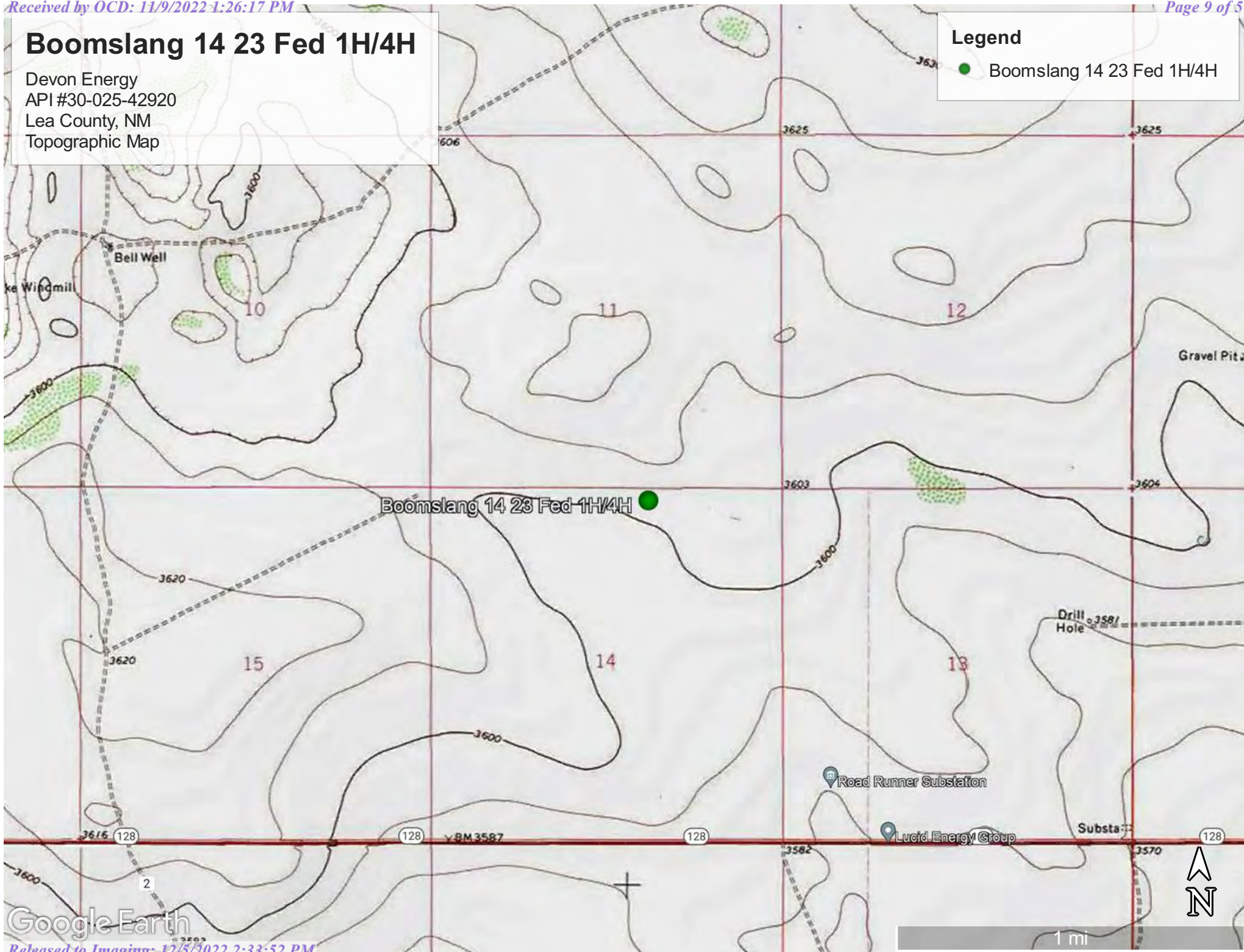


# Boomslang 14 23 Fed 1H/4H

Devon Energy  
API #30-025-42920  
Lea County, NM  
Topographic Map

## Legend

● Boomslang 14 23 Fed 1H/4H



Google Earth

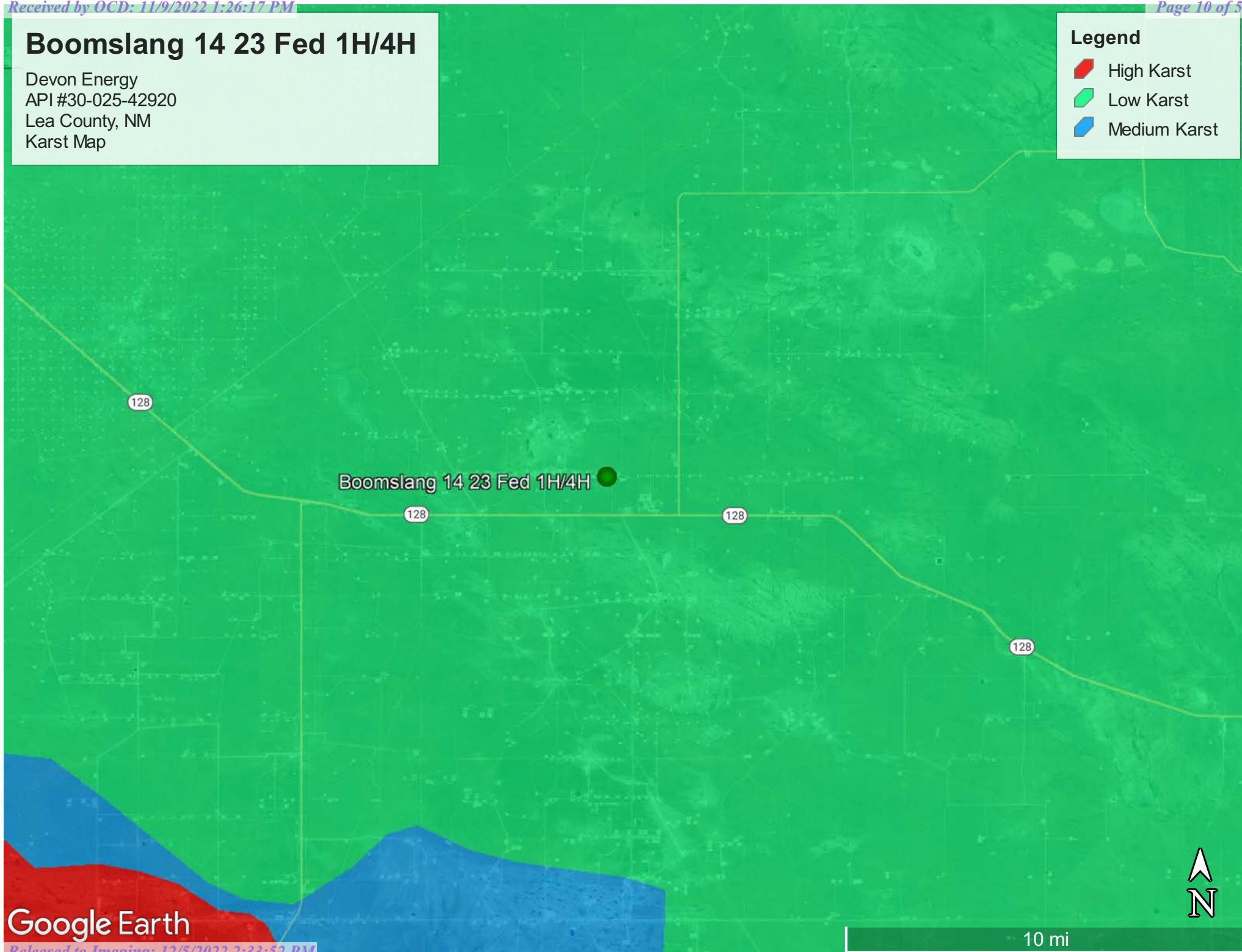
1 mi



# Boomslang 14 23 Fed 1H/4H

Devon Energy  
API #30-025-42920  
Lea County, NM  
Karst Map

- Legend**
- High Karst
  - Low Karst
  - Medium Karst



Google Earth

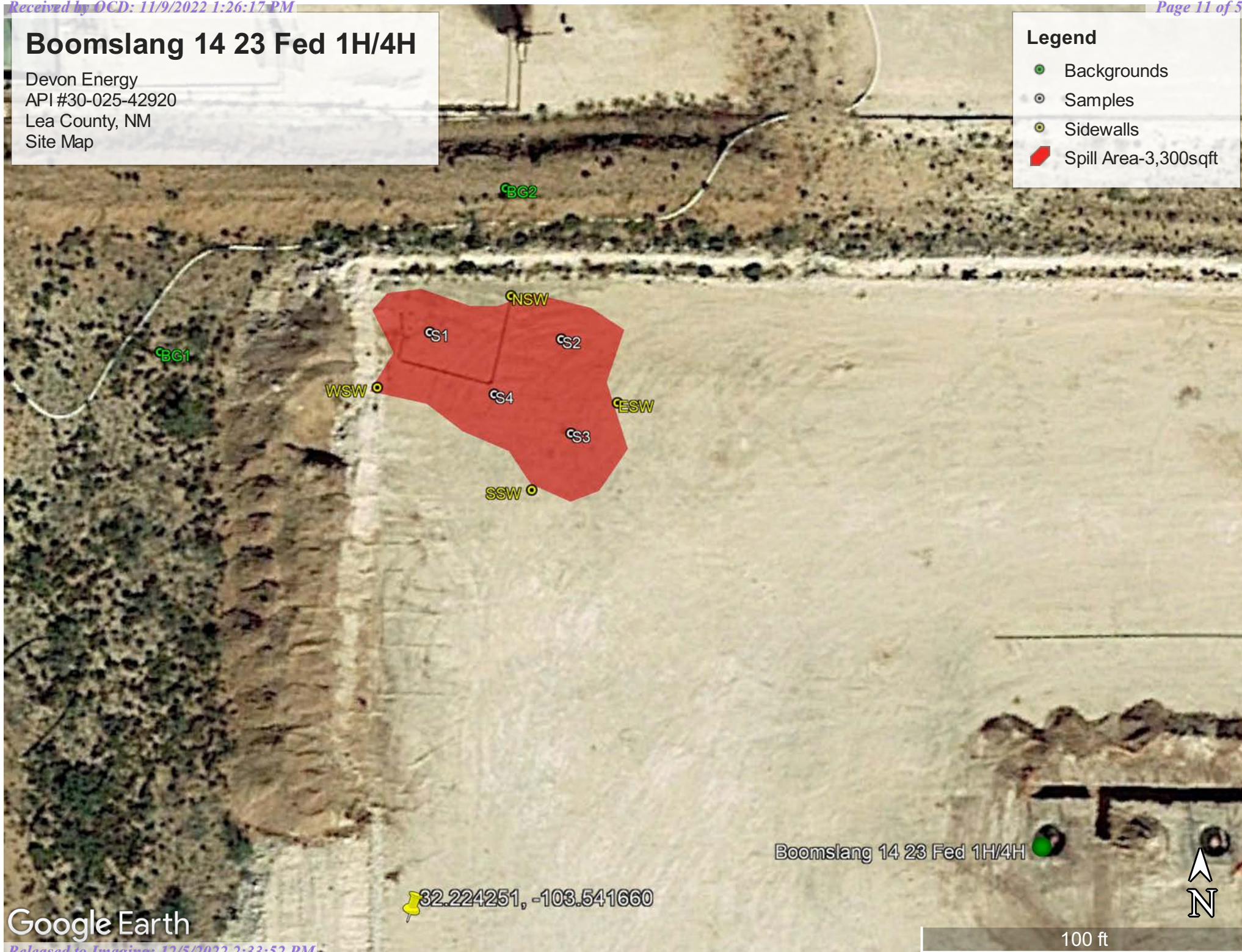


# Boomslang 14 23 Fed 1H/4H

Devon Energy  
API #30-025-42920  
Lea County, NM  
Site Map

## Legend

- Backgrounds
- Samples
- Sidewalls
- Spill Area-3,300sqft



Google Earth



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**Appendix A**

Water Surveys:

OSE

USGS

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_03917 POD1</a>		C	LE	4	1	3	13	24S	33E	638374	3565212	1278	600	420	180
<a href="#">C_03662 POD1</a>		C	LE	3	1	2	23	24S	33E	637342	3564428	1825	550	110	440
<a href="#">C_04339 POD6</a>		CUB	LE	3	1	2	23	24S	33E	637340	3564386	1867	60		
<a href="#">C_03666 POD1</a>		C	LE	2	3	4	13	24S	33E	639132	3565078	1914	650	390	260
<a href="#">C_04339 POD9</a>		CUB	LE	3	4	2	23	24S	33E	637731	3563913	2324	45		
<a href="#">C_03601 POD1</a>		CUB	LE	4	4	2	23	24S	33E	638124	3563937	2355			
<a href="#">C_04339 POD7</a>		CUB	LE	4	4	2	23	24S	33E	636473	3564011	2495	43		
<a href="#">C_03601 POD2</a>		CUB	LE	3	2	4	23	24S	33E	637846	3563588	2657			
<a href="#">C_04339 POD10</a>		CUB	LE	4	1	4	23	24S	33E	637688	3563503	2732	49		
<a href="#">C_04339 POD8</a>		CUB	LE	1	1	3	23	24S	33E	636519	3563681	2775	30		
<a href="#">C_03601 POD3</a>		CUB	LE	1	3	3	24	24S	33E	638142	3563413	2871			
<a href="#">C_02308</a>		CUB	LE	1	3	1	10	24S	33E	634953	3567364*	2883	40	20	20
<a href="#">C_03601 POD6</a>		CUB	LE	1	4	4	23	24S	33E	637834	3563338	2905			
<a href="#">C_04339 POD5</a>		CUB	LE	2	3	4	23	24S	33E	637580	3563328	2906	54		
<a href="#">C_03601 POD5</a>		CUB	LE	2	4	4	23	24S	33E	637988	3563334	2925			
<a href="#">C_04339 POD3</a>		CUB	LE	2	4	3	23	24S	33E	637273	3563323	2930	38		
<a href="#">C_04339 POD4</a>		CUB	LE	2	4	3	23	24S	33E	637273	3563323	2930	47		

Average Depth to Water: **235 feet**

Minimum Depth: **20 feet**

Maximum Depth: **420 feet**

**Record Count:** 17

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 637606.43

**Northing (Y):** 3566234.94

**Radius:** 3000

\*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.

8/10/22 9:00 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

site\_no list =

- 321403103300301

Minimum number of levels = 1

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

### USGS 321403103300301 24S.34E.07.22222

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°14'03", Longitude 103°30'03" NAD27

Land-surface elevation 3,606 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

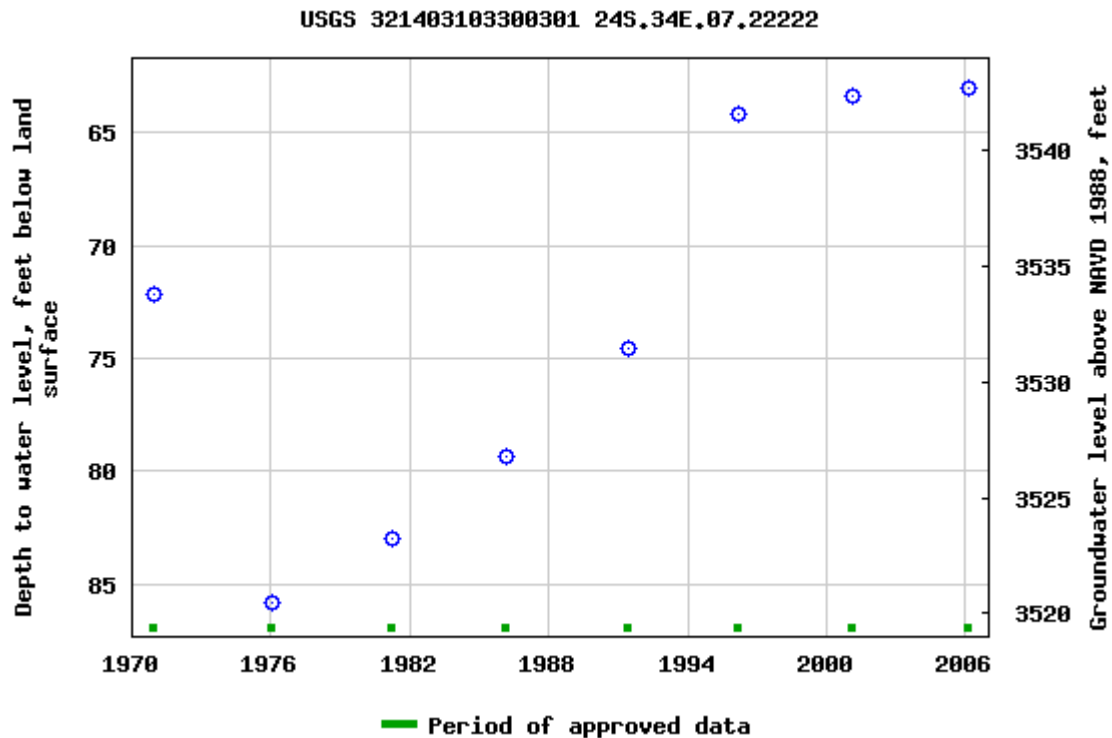
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

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

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



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

Page Last Modified: 2022-07-19 15:50:00 EDT

0.59 0.47 nadww01

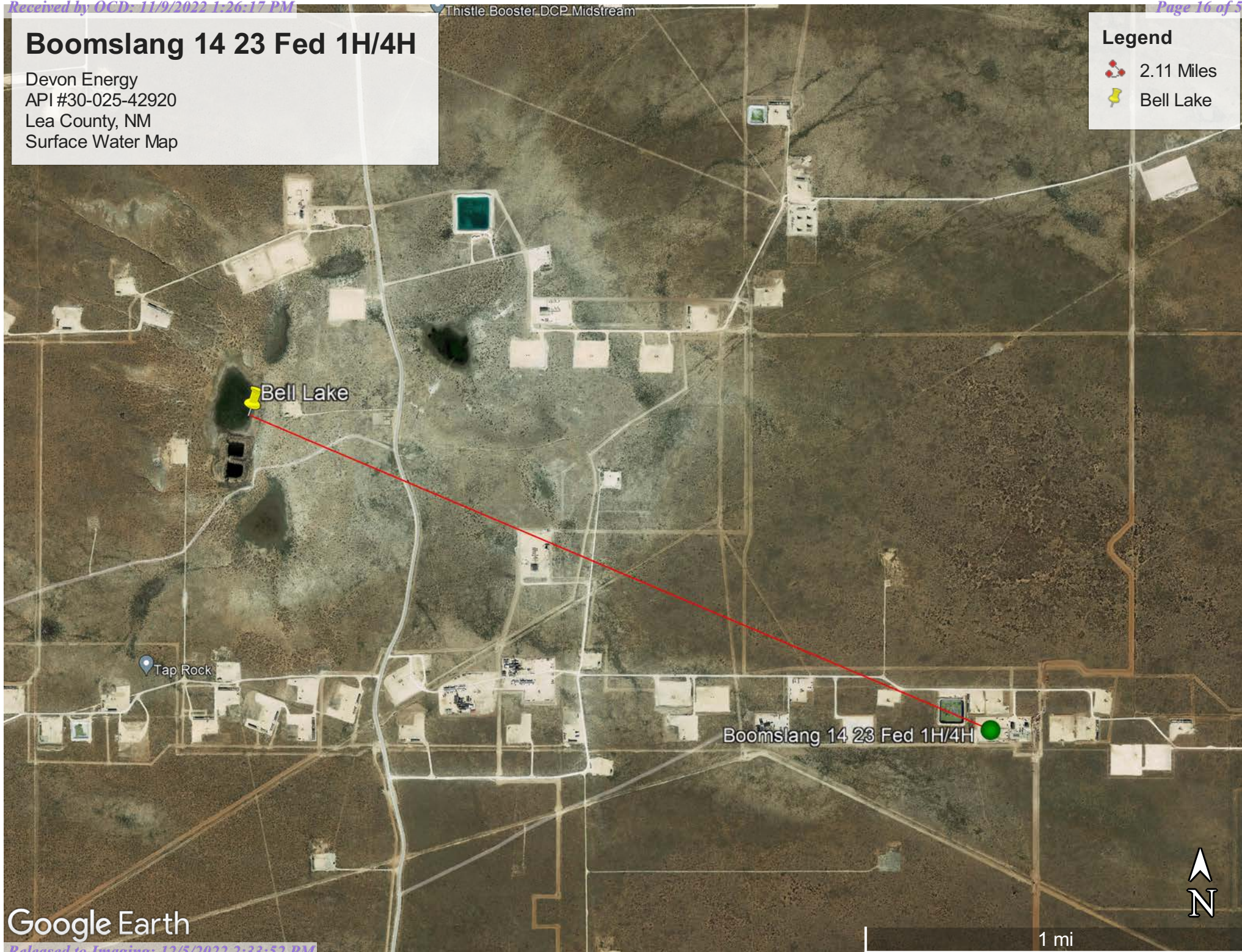


# Boomslang 14 23 Fed 1H/4H

Devon Energy  
API #30-025-42920  
Lea County, NM  
Surface Water Map

## Legend

- 2.11 Miles
- Bell Lake



Google Earth





Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Map Unit Description: Berino-Cacique fine sandy loams association---Lea County, New Mexico

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## Lea County, New Mexico

### BF—Berino-Cacique fine sandy loams association

#### Map Unit Setting

*National map unit symbol:* dmpf

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 15 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Berino and similar soils:* 50 percent

*Cacique and similar soils:* 40 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Berino

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

##### Typical profile

*A - 0 to 8 inches:* fine sandy loam

*Btk - 8 to 60 inches:* sandy clay 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

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.7 inches)

Map Unit Description: Berino-Cacique fine sandy loams association---Lea County, New Mexico

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**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7c

*Hydrologic Soil Group:* B

*Ecological site:* R042XC004NM - Sandy

*Hydric soil rating:* No

**Description of Cacique****Setting**

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 8 inches:* fine sandy loam

*Bt - 8 to 28 inches:* sandy clay loam

*Bkm - 28 to 38 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 20 to 40 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Low (about 4.0 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7c

*Hydrologic Soil Group:* C

*Ecological site:* R042XC004NM - Sandy

*Hydric soil rating:* No

**Minor Components****Kermit**

*Percent of map unit:* 4 percent

*Ecological site:* R042XC005NM - Deep Sand

*Hydric soil rating:* No

Map Unit Description: Berino-Cacique fine sandy loams association---Lea County, New Mexico

---

**Pyote**

*Percent of map unit:* 3 percent

*Ecological site:* R042XC003NM - Loamy Sand

*Hydric soil rating:* No

**Wink**

*Percent of map unit:* 3 percent

*Ecological site:* R042XC003NM - Loamy Sand

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 18, Sep 10, 2021





Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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## Lea County, New Mexico

### PU—Pyote and Maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 12 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent

*Maljamar and similar soils:* 44 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Pyote

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 30 inches:* fine sand

*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: A*  
*Ecological site: R042XC003NM - Loamy Sand*  
*Hydric soil rating: No*

## Description of Maljamar

### Setting

*Landform: Plains*  
*Landform position (three-dimensional): Rise*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: Sandy eolian deposits derived from sedimentary rock*

### Typical profile

*A - 0 to 24 inches: fine sand*  
*Bt - 24 to 50 inches: sandy clay loam*  
*Bkm - 50 to 60 inches: cemented material*

### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 40 to 60 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 5 percent*  
*Gypsum, maximum content: 1 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 2.0*  
*Available water supply, 0 to 60 inches: Low (about 5.6 inches)*

### Interpretive groups

*Land capability classification (irrigated): 6e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R042XC003NM - Loamy Sand*  
*Hydric soil rating: No*

## Minor Components

### Kermit

*Percent of map unit: 10 percent*  
*Ecological site: R042XC022NM - Sandhills*

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

---

*Hydric soil rating:* No

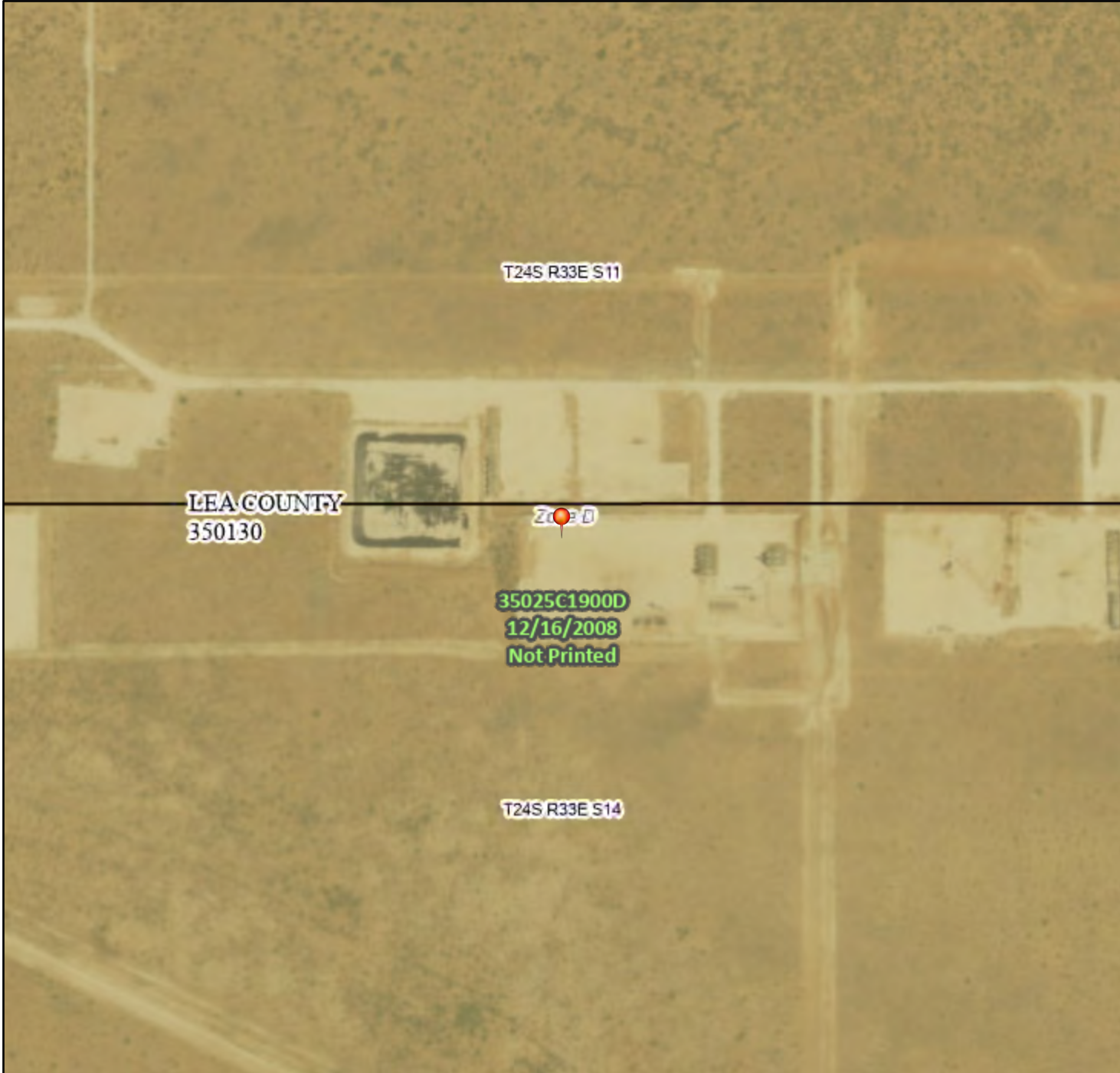
## Data Source Information

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 18, Sep 10, 2021

# National Flood Hazard Layer FIRMette



103°32'48"W 32°13'44"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		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 Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		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 8/10/2022 at 12:15 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

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	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

### Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input 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 type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
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: _____	Title: _____
Signature: <u>Dale Woodall</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Incident ID	NAPP2219550049
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>63</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <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

Incident ID	NAPP2219550049
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: Dale Woodall Title: EHS Professional  
Signature: Dale Woodall Date: 11/9/2022  
email: dale.woodall@dvN.com Telephone: 405-318-4697

**OCD Only**

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



Incident ID	NAPP2219550049
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: Dale Woodall Title: EHS Professional  
Signature: Dale Woodall Date: 11/9/2022  
email: dale.woodall@dvn.com Telephone: 405-318-4697

**OCD Only**

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

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

Closure Approved by: Jennifer Nobui Date: 12/05/2022  
Printed Name: Jennifer Nobui Title: Environmental Specialist A



Pima Environmental Services

## **Appendix D**

Photographic Documentation













Pima Environmental Services

## **Appendix E**

Laboratory Reports

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Boom Slang 14 23 Fed 1H-4H

Work Order: E207139

Job Number: 22082-0001

Received: 7/21/2022

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/5/22

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.  
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: 8/5/22

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Boom Slang 14 23 Fed 1H-4H  
Workorder: E207139  
Date Received: 7/21/2022 10:10:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/21/2022 10:10:00AM, under the Project Name: Boom Slang 14 23 Fed 1H-4H.

The analytical test results summarized in this report with the Project Name: Boom Slang 14 23 Fed 1H-4H 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**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**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	Project Name:	Boom Slang 14 23 Fed 1H-4H	Reported:
PO Box 247	Project Number:	22082-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/05/22 17:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NSW	E207139-01A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
ESW	E207139-02A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
WSW	E207139-03A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
SSW	E207139-04A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
S.1 1'	E207139-05A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
S.2 1'	E207139-06A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
S.3 1'	E207139-07A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
S.4 1'	E207139-08A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
BG 1	E207139-09A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
BG 2	E207139-10A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

## NSW

## E207139-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	93.0 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	93.0 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/27/22	
Surrogate: n-Nonane	111 %	50-200		07/26/22	07/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

## ESW

## E207139-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	94.1 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	94.1 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/27/22	
Surrogate: n-Nonane	114 %	50-200		07/26/22	07/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

## WSW

## E207139-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	87.6 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	94.8 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	87.6 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	94.8 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/28/22	
Surrogate: n-Nonane	114 %	50-200		07/26/22	07/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

## SSW

## E207139-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	93.3 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	88.4 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	93.3 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	88.4 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/27/22	
Surrogate: n-Nonane	112 %	50-200		07/26/22	07/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

## S.1 1'

## E207139-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	92.8 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	87.1 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	92.8 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	87.1 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/28/22	
Surrogate: n-Nonane	124 %	50-200		07/26/22	07/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

S.2 1'

E207139-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	80.0 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	94.1 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	80.0 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	94.1 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/27/22	
Surrogate: n-Nonane	88.3 %	50-200		07/26/22	07/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

S.3 1'

E207139-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	91.9 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	92.6 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	91.9 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	92.6 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/28/22	
Surrogate: n-Nonane	129 %	50-200		07/26/22	07/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

S.4 1'

E207139-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	07/22/22	07/27/22	
Surrogate: Toluene-d8		105 %	70-130	07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene		102 %	70-130	07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	07/22/22	07/27/22	
Surrogate: Toluene-d8		105 %	70-130	07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/27/22	
Surrogate: n-Nonane		89.6 %	50-200	07/26/22	07/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

## BG 1

## E207139-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/22/22	07/27/22	
Surrogate: Toluene-d8		106 %	70-130	07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene		101 %	70-130	07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/22/22	07/27/22	
Surrogate: Toluene-d8		106 %	70-130	07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/28/22	
Surrogate: n-Nonane		116 %	50-200	07/26/22	07/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Boom Slang 14 23 Fed 1H-4H  
Project Number: 22082-0001  
Project Manager: Tom Bynum

**Reported:**  
8/5/2022 5:28:11PM

## BG 2

## E207139-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Benzene	ND	0.0250	1	07/22/22	07/27/22	
Ethylbenzene	ND	0.0250	1	07/22/22	07/27/22	
Toluene	ND	0.0250	1	07/22/22	07/27/22	
o-Xylene	ND	0.0250	1	07/22/22	07/27/22	
p,m-Xylene	ND	0.0500	1	07/22/22	07/27/22	
Total Xylenes	ND	0.0250	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	104 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230099
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/22	07/27/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/22/22	07/27/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/22/22	07/27/22	
Surrogate: Toluene-d8	104 %	70-130		07/22/22	07/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/28/22	
Surrogate: n-Nonane	117 %	50-200		07/26/22	07/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2230098
Chloride	ND	20.0	1	07/22/22	07/23/22	



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boom Slang 14 23 Fed 1H-4H	Reported:
PO Box 247	Project Number:	22082-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/5/2022 5:28:11PM

## 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 (2230099-BLK1)

Prepared: 07/22/22 Analyzed: 07/27/22

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	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

## LCS (2230099-BS1)

Prepared: 07/22/22 Analyzed: 07/27/22

Benzene	2.37	0.0250	2.50		94.6	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.34	0.0250	2.50		93.5	70-130			
o-Xylene	2.26	0.0250	2.50		90.3	70-130			
p,m-Xylene	4.48	0.0500	5.00		89.6	70-130			
Total Xylenes	6.74	0.0250	7.50		89.8	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

## LCS Dup (2230099-BSD1)

Prepared: 07/22/22 Analyzed: 07/27/22

Benzene	2.35	0.0250	2.50		94.0	70-130	0.679	23	
Ethylbenzene	2.43	0.0250	2.50		97.2	70-130	0.330	27	
Toluene	2.35	0.0250	2.50		94.1	70-130	0.640	24	
o-Xylene	2.26	0.0250	2.50		90.6	70-130	0.288	27	
p,m-Xylene	4.47	0.0500	5.00		89.4	70-130	0.201	27	
Total Xylenes	6.74	0.0250	7.50		89.8	70-130	0.0371	27	
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boom Slang 14 23 Fed 1H-4H	<b>Reported:</b>
PO Box 247	Project Number:	22082-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/5/2022 5:28:11PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230099-BLK1)

Prepared: 07/22/22 Analyzed: 07/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

## LCS (2230099-BS2)

Prepared: 07/22/22 Analyzed: 07/27/22

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0		115	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

## LCS Dup (2230099-BSD2)

Prepared: 07/22/22 Analyzed: 07/27/22

Gasoline Range Organics (C6-C10)	58.0	20.0	50.0		116	70-130	1.04	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boom Slang 14 23 Fed 1H-4H	<b>Reported:</b>
PO Box 247	Project Number:	22082-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/5/2022 5:28:11PM

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

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2231037-BLK1)

Prepared: 07/26/22 Analyzed: 07/27/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			

## LCS (2231037-BS1)

Prepared: 07/26/22 Analyzed: 07/27/22

Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

## Matrix Spike (2231037-MS1)

Source: E207139-04

Prepared: 07/26/22 Analyzed: 07/27/22

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			

## Matrix Spike Dup (2231037-MSD1)

Source: E207139-04

Prepared: 07/26/22 Analyzed: 07/27/22

Diesel Range Organics (C10-C28)	301	25.0	250	ND	120	38-132	8.91	20	
Surrogate: n-Nonane	61.9		50.0		124	50-200			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boom Slang 14 23 Fed 1H-4H	<b>Reported:</b>
PO Box 247	Project Number:	22082-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/5/2022 5:28:11PM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230098-BLK1)

Prepared: 07/22/22 Analyzed: 07/22/22

Chloride ND 20.0

## LCS (2230098-BS1)

Prepared: 07/22/22 Analyzed: 07/22/22

Chloride 242 20.0 250 96.7 90-110

## Matrix Spike (2230098-MS1)

Source: E207138-01

Prepared: 07/22/22 Analyzed: 07/22/22

Chloride 251 20.0 250 ND 101 80-120

## Matrix Spike Dup (2230098-MSD1)

Source: E207138-01

Prepared: 07/22/22 Analyzed: 07/22/22

Chloride 250 20.0 250 ND 99.9 80-120 0.661 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:	Boom Slang 14 23 Fed 1H-4H	
PO Box 247	Project Number:	22082-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/05/22 17:28

- 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.

## Project Information

## Chain of Custody

Page 1 of 1

**22082-0001**

<b>Client:</b> Pima Environmental Services <b>Project:</b> <u>Broom Yang 14 23 Fed 1H-4H</u> <b>Project Manager:</b> Tom Bynum <b>Address:</b> 5614 N. Lovington Hwy. <b>City, State, Zip:</b> Hobbs, NM. 88240 <b>Phone:</b> 580-748-1613 <b>Email:</b> tom@pimaoil.com <b>Report due by:</b>					<b>Bill To</b> <b>Attention:</b> _____ <b>Address:</b> _____ <b>City, State, Zip:</b> _____ <b>Phone:</b> _____ <b>Email:</b> _____ <b>Pima Project #</b> <u>183</u>					<b>Lab Use Only</b> <b>Lab WO#</b> <u>E-207139</u> <b>Job Number</b> <u>21004-0001</u> <b>Analysis and Method</b> DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX						<b>TAT</b> 1D 2D 3D Standard X				<b>EPA Program</b> CWA SDWA RCRA State NM CO UT AZ TX X	
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							
1:00	7/19/22	S		NSW	1							X									
1:05				ESW	2																
1:10				WSW	3																
1:15				SSW	4																
1:20				S.1 1'	5																
1:25				S.2 1'	6																
1:30				S.3 1'	7																
1:35				S.4 1'	8																
1:40				BG 1	9																
1:45				BG 2	10																

**Additional Instructions:** Bill to Sunset!!

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.						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.					
Sampled by:						Lab Use Only					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time	
<u>[Signature]</u>		7/20/22		2:45		<u>[Signature]</u>		7-20-22		2:45	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time	
<u>[Signature]</u>		7-20-22		4:15		<u>[Signature]</u>		7/21/22		10:10	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time	
						<b>Received on Ice:</b> <u>(Y)</u> N T1 _____ T2 _____ T3 _____ <b>AVG Temp °C</b> <u>4</u>					
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other						Container Type: <u>G</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - 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: 7/22/2022 12:40:20PM

## 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:	07/21/22 10:10	Work Order ID:	E207139
Phone:	(575) 631-6977	Date Logged In:	07/21/22 11:21	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	07/27/22 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

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

Carrier: UPSComments/ResolutionSample 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

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

Date



envirotech Inc.



**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 157404

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 157404
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	12/5/2022